

# ALI J. CHAMKHA

Deanship of Research  
Mechanical Engineering Department  
Prince Sultan Endowment for Energy and Environment  
Prince Mohammad Bin Fahd University  
P.O. Box 1664  
Al-Khobar 31952, Kingdom of Saudi Arabia  
Office Phone: (966)138498800  
Mobile Phone: (966)538475338  
E-mail: achamkha@pmu.edu.sa  
E-mail: achamkha@yahoo.com  
Website: <http://alichamkha.net>

---

---

## CURRENT POSITION

Dean of Research, Prince Sultan Endowed Chair for Energy and Environment, Full Professor and Former Chairman of the Mechanical Engineering Department and Member of the Rector's Advisory Council at Prince Mohammad Bin Fahd University, Al-Khobar, Kingdom of Saudi Arabia.

## CURRENT H-INDEX AND CITATIONS

- My current research h-index is **51** and my current total number of citations is **10100**.  
<https://scholar.google.com/citations?user=EnYLjDUAAAAJ&hl=en>
- My current ResearchGate index is **45.32** which is higher than **97.5%** of RG members.  
[https://www.researchgate.net/profile/Ali\\_Chamkha2](https://www.researchgate.net/profile/Ali_Chamkha2)

## UNIVERSITY RANKING KNOWLEDGE

- Strategic knowledge and expertise in the following global university ranking systems:
  1. Academic Ranking of World Universities (Shanghai)
  2. Times Higher Education World University Ranking
  3. Quacquarelli Symonds (QS) World Universities Ranking
  4. US News & World Report with Quacquarelli Symonds
- Strategic knowledge in the following regional university ranking systems:
  1. European Multidimensional University Ranking System
  2. Bulgarian Universities Ranking System
  3. Asian Universities Ranking System
  4. Turkish Universities Ranking System
  5. Indian Universities Ranking System
- Strategic knowledge on increasing research productivity in universities.
- Strategic knowledge on building and improving university-industry links.
- Knowledge on establishing Patents and Intellectual Property (IP) center.
- Knowledge on establishing international scientific journals.

## **EDUCATION**

**Ph.D. in Mechanical Engineering**, Tennessee Technological University, Cookeville, Tennessee, USA. December 1989 (GPA: 3.9/4.0)

Dissertation Title: "Boundary-Layer Flow of a Particulate Suspension Past a Flat Plate"

**M.S. in Mechanical Engineering**, Tennessee Technological University, Cookeville, Tennessee, USA. August 1987 (GPA: 4.0/4.0)

Thesis Title: "The Asymptotic Suction Profile For a Two-Phase Suspension"

**B.S. in Mechanical Engineering**, Tennessee Technological University, Cookeville, Tennessee, USA. June 1986 (GPA: 3.4/4.0)

Concentration Area: Thermal Sciences

## **CURRENT AND PREVIOUS EMPLOYMENT**

**Dean of Research**, October 2016 – Present, Prince Mohammad Bin Fahd University (PMU), Al-Khobar, Kingdom of Saudi Arabia.

Managing all research activities, establishing university research vision, providing research grants funding and mentoring researchers.

**Prince Sultan Endowed Chair for Energy and Environment**, March 2016 – Present, Prince Mohammad Bin Fahd University (PMU), Al-Khobar, Kingdom of Saudi Arabia.

**Chairman**, September 2014 – August 2016, Mechanical Engineering Department, Prince Mohammad Bin Fahd University (PMU), Al-Khobar, Kingdom of Saudi Arabia.

Managing the Department activities, establishing the vision and setting the strategic goals.

**Full Professor**, September 2014 – Present, Mechanical Engineering Department, Prince Mohammad Bin Fahd University (PMU), Al-Khobar, Kingdom of Saudi Arabia.

Currently teaching heat transfer, fluid mechanics and learning outcome assesment III courses.

**Managing Director**, May 2014 – November 2014, Future Projects International for Trading and Consultation Company, Kuwait.

Managed and performed studies on establishing training and educational institutes projects.

**General Manager**, February 2014 – May 2014, Accredited Skills Institute, Kuwait.

Managed the Institue activities and plans and performed various training courses.

**Consultant**, June 2013 – September 2013, Aldhabi Trading and Consultation Company, Kuwait.

Assisted in studies dealing with environmental, sugar plant and trading projects.

**Chief Executive Officer**, October 2012 – May 2014, Marat Trading and Consultation Company, Kuwait.

Managed environmental and electrical consultation projects.

**Full Professor**, January 2009 – September 2012, The Public Authority for Applied Education & Training, Kuwait.

Taught qauality control, materials technology, industrial management, basic materials technology and manufacturing engineering projects courses.

**Adviser to Director General of Public Authority for Industry**, May 2010 – May 2011  
Office of the Director General of the Public Authority for Industry, Janoob Al-Surra, Kuwait.

**Associate Professor**, September 2003 – December 2008, The Public Authority for Applied Education & Training, Kuwait.  
Proposed a new comprehensive and unique program of study named “Quality Engineering Technology”.

**Engineering Adviser**, April 2003 – September 2003  
Office of the Director General of the Public Authority for Applied Education & Training, Adyilia, Kuwait.

**Adjunct Professor**, September 2004 – December 2008, College of Management Sciences, Kuwait University  
Taught mathematics for management sciences and operations management courses.

**Associate Professor**, May 1997 – January 2003, Kuwait University.  
Applied for promotion to the rank of Full Professor in January 2002. Promotion approved by the Department on January 22, 2003. Taught engineering dynamics, fluid mechanics, thermodynamics, heat transfer, engineering probability and statistics, aerodynamics, graduate continuum mechanics, graduate gas dynamics, advanced aerodynamics, advanced conduction heat transfer, advanced convection heat transfer, advanced multiphase flow, and special topics in heat transfer, advanced engineering thermodynamics courses.

**Assistant Professor**, September 1993 -- April 1997, Kuwait University  
Taught engineering dynamics, fluid mechanics, thermodynamics, heat transfer, engineering probability and statistics, graduate gas dynamics, and advanced conduction heat transfer courses.

**Assistant Professor**, January 1990 -- May 1991, Tennessee Technological University  
Taught dynamics, fluid mechanics, thermodynamics, vibrations, and fluid mechanics laboratory courses. to Engineering students. Was associated with the university as a consultant, and served on a Ph.D. graduate advisory committee.

**Graduate Teaching Instructor**, September 1987 -- December 1989, Tenn. Tech. University  
Taught dynamics, fluid mechanics, thermodynamics, vibrations, and fluid mechanics laboratory courses to Engineering students.

**Instructor**, Tenth and Eleventh Annual Introduction to Engineering and Computer Workshops, Tennessee Tech University (Summers of 1988 and 1989).  
Responsibilities included lecturing and supervising lab activities in aerodynamics, and grading assignments in various other subjects.

**Graduate Teaching Assistant**, September 1986 -- June 1987  
Taught fluid mechanics laboratory course.

## **TEACHING EXPERIENCE**

During my teaching career, I have taught the following courses at the undergraduate and graduate levels:

Engineering Statics	Undergraduate
Engineering Dynamics	Undergraduate
Engineering Thermodynamics	Undergraduate
Mechanical Vibrations	Undergraduate
Fluid Mechanics I and II	Undergraduate
Fluid Mechanics Lab	Undergraduate
Heat Transfer	Undergraduate
Aerodynamics	Undergraduate
Engineering Mechanics	Undergraduate
Quality Control	Undergraduate
Probability and Statistics	Undergraduate
Operations Management	Undergraduate
Senior Project Design	Undergraduate
Industrial Management	Undergraduate
Storage Principles	Undergraduate
Materials Handling Technology	Undergraduate
Metallic Materials I	Undergraduate
Engineering Materials	Undergraduate
Basic Materials Technology	Undergraduate
Workshop Technology	Undergraduate
Electric Circuits	Undergraduate
Manufacturing Engineering Projects	Undergraduate
Mathematics for Management Sciences	Undergraduate
Introduction to Computers	Undergraduate
Learning Outcome Assessment III	Undergraduate
Continuum Mechanics	Graduate
Advanced Aerodynamics	Graduate
Advanced Conduction Heat Transfer	Graduate
Advanced Convection Heat Transfer	Graduate
Advanced Engineering Thermodynamics	Graduate
Special Topics in Heat Transfer	Graduate
Multiphase Flow	Graduate
Gas Dynamics	Graduate

### **RESEARCH EXPERIENCE**

Throughout my industry and university careers after my Ph.D. graduation in December 1989, I was and still is involved in many broad research areas. These areas include

- Multiphase Fluid-Particle Dynamics
- Energy Systems Modelling
- Nanofluids Flow Modelling
- Transport in Porous Media
- Heat and Mass Transfer
- Magnetohydrodynamics
- Fluid-Particle Separation

**Graduate Instructor**, Department of Mechanical Engineering, Tennessee Tech University

Ph.D. Dissertation research was concerned with the development of a boundary-layer theory for particulate suspension flows. The theory was applied for numerical modeling of two-phase flow past a semi-infinite flat plate.

**Graduate Assistant**, Department of Mechanical Engineering, Tennessee Tech University  
M.S. Thesis research was in two-phase flow. Its purpose was to investigate the possibility of developing a consistent two-phase model allowing for both inertial transport and diffusion of particles.

**Graduate Research Assistant**, Center for Electric Power, Tennessee Tech University  
(June 1987 -- September 1987)

- Assisted in modeling unsteady heat transfer problems.

**Theoretical Physics Research Assistant**, Physics Department, Tennessee Tech University  
(September 1985 -- December 1985)

- Wrote and modified FORTRAN and ACSL programs.
- Utilized SAS for large data base.

## **INDUSTRIAL EXPERIENCE**

**Staff Research Engineer**, Fleetguard, Inc., Cookeville, Tennessee  
(May 1991 -- September 1993)

- Performed research in filtration and applied it for predicting performance of flat sheets, pleated media, and stacked discs.
- Developed a thermodynamic model for relative humidity and condensation rate in an air intake system of an engine.
- Developed several FORTRAN programs for design purposes.
- Served on Fleetguard's Technology Council.
- Coordinated research activities with universities and firms.
- Initiated and approved a proposal for acquiring a supercomputer.
- Completed a training course on using FLUENT and FLUENT/BFC.
- Analyzed filtration systems using FLUENT and FLUENT/BFC.
- Analyzed and designed new filtration products.
- Published several research papers on filtration and CFD.
- Taught a three-month fluid mechanics course.
- Completed short courses on DOS, Microsoft Project, and Windows.
- Completed short courses on Quality Control, FMEA, and ISO9000.
- Completed short course on Design of an experiment (Taguchi).
- Learned and used several software (SigmaPlot, WordPerfect, TableCurve, Excel, Harvard Graphics, and Microsoft Word).
- Worked as **Quality Auditor**.

**Temporary Drafter**, International Specialty Supply, Cookeville, Tennessee (August 1987)

- Designed machine drawings used in the agricultural industry.

## **COMPUTER EXPERTISE**

ACSL, CAD/CAM, FORTRAN, PASCAL, MATLAB, FLUENT, FIDAP, VMS and UNIX operating systems, and several graphing software such as TECHPLOT, ORIGIN, GRAPHER and SURFER.

## CONTINUING EDUCATION

- Workshop on The Art of Speed Achievement, PAAET, 28-30 November, 2011.
- Workshop on Endnote, PAAET, 2009.
- Workshop on Quality Teaching, PAAET, 2008.
- Workshop on Test Construction, PAAET, 27-29 March, 2004.
- Workshop on the Curriculum Development for the Mechanical Engineering Program (Chairman for Multi-Section Courses), Kuwait University, 1996.
- Workshop on Excellence in Teaching, Kuwait University, December 1995.
- Fluid-Particle Separation: Theory and Experiments, AFS, Cookeville, TN, June 1992.
- Workshop on Power Plant instrumentation, Tennessee Technological University, July 1987.

## ACHIEVEMENTS AND AWARDS

- Named among the **Top 1% Scientist** by Universal Scientific Education and Research Network, 2016.
- Awarded **ASME Students' Choice Award for Outstanding Chairman**, Prince Mohammad Bin Fahd University, Al-Khobar, Kingdom of Saudi Arabia, 2015.
- Awarded **Highly Commended Award Winner**, Emerald Literati Network Awards for Excellence, 2013. Winning Paper in International Journal for Numerical Methods in Heat and Fluid Flow, Volume 22, pp. 1073-1085, 2012.
- Awarded **Khwarizmi International Award in Engineering**, Tehran, Iran, 2012.
- Awarded **Most Outstanding Reviewer Award** for International Journal for Numerical Methods in Heat and Fluid Flow, Literati Network Awards for Excellence, 2012.
- Awarded **Highly Commended Award Winner**, Emerald Literati Network Awards for Excellence, 2012. Winning Paper in International Journal for Numerical Methods in Heat and Fluid Flow, Volume 21, pp. 418-433, 2011.
- Awarded **Khalifa Award for Distinguished University Professor in Scientific Research at the Arab World Level**, Khalifa Education Awards, Abu Dhabi, 2011.
- Awarded **Senior Scientist Award**, American Filtration and Separation Society, 2007.
- Awarded **Outstanding Teaching Award**, University Level, Kuwait University, 2001.
- Awarded **Outstanding Research Award in Basic and Applied Sciences**, University Level, Kuwait University, 2001.
- Awarded **Outstanding Teaching Award**, College of Engineering and Petroleum Level, Kuwait University, 2001.
- Awarded **Outstanding Research Award**, College of Engineering and Petroleum Level, Kuwait University, 2001.
- Awarded **Young Arab Researcher Award in Engineering Sciences**, Abdul-Hamid Shoman Foundation, Amman, Jordan, 1998.
- Awarded **Outstanding Teaching Award**, Kuwait University, 1997.
- Awarded **Certificate for Outstanding Teaching**, Kuwait University, 1996.
- Awarded Pi Tau Sigma **Students' Choice Award for Best ME Professor**, Tennessee Technological University, Cookeville, Tennessee, 1991.
- Awarded **Achievement Award for Engineering & Technology**, Fleetguard, Inc., 1993.
- Awarded certificate of appreciation by Tennessee Technological University, 1986.
- Awarded certificate of appreciation by the American Filtration and Separation Society, 1993.
- Awarded certificate of appreciation by ASHRAE-Kuwait, 1999.
- Completed all degrees in a **record time** of five years.

- **Who's Who in the World** (Millennium Edition)
- **Who's Who in Science and Engineering** (2nd Edition, Page 136)
- **Who's Who in Science and Engineering** (3rd Edition, page 155)
- **Who's Who in Science and Engineering** (5th Edition, page 207)
- Registered as an **Engineer-In-Training** (EIT), Certificate Number 10659.
- **Profile appeared in Fluid/Particle Separation Journal, September 1993.**
- Order of the Engineer

#### **EDITORIAL BOARD SERVICES**

- **Regional Editor** for Scientia Iranica Journal (2017-present)
- **Editor** for Journal of Nanofluids (2016-present)
- **Member of the International Editorial Board** for Yanbu Journal of Engineering and Science (2016-present)
- **Associate Editor** for the ASME Journal of Thermal Science and Engineering Applications (2015-present)
- **Member of the Editorial Advisory Board** for Recent Patents on Mechanical Engineering (2015-present)
- **Member of the International Editorial Advisory Board** for Journal of Applied and Computational Mechanics (2015-present)
- **Member of the Honrary Editorial Board** for Journal of Heat and Mass Transfer Research (2014-present)
- **Member of the Editorial Board** for Journal of Mathematical Modeling (2014-present)
- **Member of the Editorial Board** for Journal of Nanofluids (2013-2016)
- **Member of the Editorial Board** for International Journal of Fluids and Thermal Sciences (2012-present)
- **Member of the Editorial Board** for American Journal of Engineering and Applied Sciences (2012-present)
- **Associate Editor** for the International Research Journal of Engineering Science, Technology and Innovation (2012-present)
- **Member of the Editorial Board** for International Journal of Advanced Renewable Energy Research (2011-present)
- **Deputy Editor-in-Chief** for International Journal of Energy & Technology (2011-present)
- **Member of the Editorial Board** for International Journal for Microscale and Nanoscale Thermal and Fluid Transport Phenomena (2011-present)
- **Member of the Advisory Editorial Board** for International Journal for Numerical Methods for Heat and Fluid Flow (2011-present)
- **Member of the Editorial Board** for International Journal of Industrial Mathematics (2011-present)
- **Editor** for Communications in Numerical Analysis journal (2011-present)
- **Associate Editor** for Journal of Applied Fluid Mechanics (2011-present)
- **Editor** for Hindawi ISRN Mechanical Engineering journal (2010-present)
- **Associate Editor** for International Journal of Energy & Technology (2009-2011)
- **International Editor-in-Chief** for Fluid/Particle Separation Journal (2001-2003)
- **Associate Technical Editor** for Fluid/Particle Separation Journal (1992-2001)

#### **PROFESSIONAL REVIEWING SERVICES**

- **Reviewer** for International Journal of Engineering Science

- **Reviewer** for International Journal of Heat and Mass Transfer
- **Reviewer** for International Journal of Thermal Sciences
- **Reviewer** for ASME Journal of Fluids Engineering
- **Reviewer** for ASME Journal of Heat Transfer
- **Reviewer** for ASME Journal of Applied Mechanics
- **Reviewer** for ASME Journal of Thermal Science and Engineering Applications
- **Reviewer** for International Journal of Heat and Fluid Flow
- **Reviewer** for Thermochimica Acta Journal
- **Reviewer** for Acta Mechanica Journal
- **Reviewer** for Scientia Iranica Journal
- **Reviewer** for Applied Mathematics and Mechanics Journal
- **Reviewer** for Journal of Porous Media
- **Reviewer** for Heat Transfer Engineering Journal
- **Reviewer** for International Journal of Fluid Mechanics Research
- **Reviewer** for Applied Mathematical Modelling Journal
- **Reviewer** for International Journal for Numerical Methods in Fluids
- **Reviewer** for International Journal of Numerical Methods for Heat and Fluid Flow
- **Reviewer** for Journal of the Taiwan Institute of Chemical Engineers
- **Reviewer** for Heat and Mass Transfer Journal
- **Reviewer** for Numerical Heat Transfer, Part A
- **Reviewer** for Case Studies in Thermal Engineering
- **Reviewer** for Journal of Heat and Mass Transfer Research
- **Reviewer** for Progress in Computational Fluid Dynamics
- **Reviewer** for Journal of Propulsion and Power Research
- **Reviewer** for Journal of Computational Physics
- **Reviewer** for Journal of Environmental Management
- **Reviewer** for Journal of Applied Fluid Mechanics
- **Reviewer** for Journal of Applied Mathematics and Computations
- **Reviewer** for International Journal of Fluids and Thermal Sciences
- **Reviewer** for Advances in Mechanical Engineering
- **Reviewer** for Journal of the Association of Arab Universities for Basic and Applied Sciences
- **Reviewer** for International Journal of Applied and Computational Mathematics
- **Reviewer** for World Journal of Nano Science and Engineering
- **Reviewer** for Journal of Nanofluids
- **Reviewer** for Meccanica Journal
- **Reviewer** for Chemical Engineering Journal
- **Reviewer** for Chemical Engineering Communications
- **Reviewer** for Computers & Mathematics with Applications
- **Reviewer** for International Journal of Energy & Technology
- **Reviewer** for Nonlinear Analysis: Modelling and Control
- **Reviewer** for International Journal of Heat & Technology
- **Reviewer** for International Journal of the Physical Sciences
- **Reviewer** for Journal of Petroleum and Gas Engineering
- **Reviewer** for Communications in Numerical Methods in Engineering
- **Reviewer** for Journal of Mathematical and Physical Sciences
- **Reviewer** for Communications in Nonlinear Science and Numerical Simulations
- **Reviewer** for Alexandria Engineering Journal
- **Reviewer** for Informatics in Medicine Unlocked Journal
- **Reviewer** for Thermal Science, Belgrade
- **Reviewer** for Canadian Journal of Physics
- **Reviewer** for Canadian Journal of Chemical Engineering



- **Reviewer** for Latin American Applied Research Journal
- **Reviewer** for Mathematical and Computer Modelling
- **Reviewer** for Mathematical Problems in Engineering
- **Reviewer** for International Journal of Industrial Mathematics
- **Reviewer** for Hindawi Journal of Applied Mathematics
- **Reviewer** for Hindawi ISRN Mechanical Engineering journal
- **Reviewer** for The Open Transport Phenomena Journal
- **Reviewer** for Chinese Journal of Physics
- **Reviewer** for Physica Scripta Journal
- **Reviewer** for Journal of Computational and Applied Mechanics
- **Reviewer** for Il Nuovo Cimento B
- **Reviewer** for Applied Mathematics Research Express
- **Reviewer** for Korean Journal of Computational and Applied Mathematics
- **Reviewer** for Fluid/Particle Separation Journal
- **Reviewer** for Mechanics Research Communications
- **Reviewer** for Kuwait Foundation for the Advancement of Science (KFAS)
- **Reviewer** for Research Administration at Kuwait University
- **Reviewer** for Iraq Research and Development Initiative Round III Grant Competition
- **Reviewer** for International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena
- **Reviewer** for SRX Physics
- **Refree for International Contest for Engineering Inventions**, Kuwait, October 2007 and October 2008.
- **Refree for The Prince Outstanding Fatcories Award**, Kuwait, 2007 and 2010.
- **Refree for KEFAS Scientific Award**, Kuwait, November 2007.
- **Refree for International Contest for Engineering Inventions**, Kuwait, October 2008.
- **Vice Chairman of the Scientific Committee** for the 2004 International Mechanical Engineering Conference (IMEC-2004) held in Kuwait, December 5-8, 2004.
- Chaired several technical sessions at the IMEC-2004 meeting.
- **Member of the Scientific Committee** for the American Filtration and Separation Society, 2009-present.
- **Member of the International Scientific Committee** for The 6th IASME / WSEAS International Conference on Continuum Mechanics (CM '11) held in Cambridge, United Kingdom, February 23-25, 2011.
- **Member of the International Scientific Committee** for for The 6th IASME / WSEAS International Conference on Water Resources, Hydraulics & Hydrology (WHH '11) held in Cambridge, United Kingdom, February 23-25, 2011.
- **Member of the International Scientific Committee** for The 5th IASME / WSEAS International Conference on Geology and Seismology (GES '11) held in Cambridge, United Kingdom, February 23-25, 2011.
- **Member of the International Scientific Committee** for International Symposium on Convective Heat and Mass Transfer in Sustainable Energy (CONV-09) held in Tunisia, April 26- May 01, 2009.
- **Member of the International Scientific Committee** for The 4th IASME / WSEAS International Conference on Water Resources, Hydraulics & Hydrology (WHH '09) held in United Kingdom, February 24-26, 2009.
- **Member of the International Scientific Committee** for The 4th IASME / WSEAS International Conference on Continuum Mechanics (CM'09) held in United Kingdom, February 24-26, 2009.
- **Member of the International Scientific Committee** for The 6th WSEAS International Conference on Fluid Mechanics (FLUIDS'09) held in China, January 10-12, 2009.

- **Member of the International Scientific Committee** for The 5th WSEAS International Conference on Fluid Mechanics (FLUIDS'08) held in Mexico, January 25-27, 2008.
- **Member of the International Scientific Committee** for The 6th IASME/WSEAS International Conference on Fluid Mechanics and Aerodynamics (FMA'08) held in Greece, August 20-22, 2008.
- **Member of the International Scientific Committee** for 3<sup>rd</sup> International Conference on Applications of Porous Media held in Morocco, May 29- June 03, 2006.
- **Member of the International Scientific Committee** for 3<sup>rd</sup> IASME / WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment held in Greece, August 20-22, 2005.
- Member of the Education and Publication Committees for AFS
- **Vice Chairman and Faculty Advisor for ASME - Kuwait Chapter (1994-1995)**
- Chaired technical sessions at the 1992-1996 and 1998 AFS meetings.
- **Co-chaired the 1993 AFS Education Conference.**
- Reviewed papers for and chaired a technical session at the first and second International Conference on Energy Research and Development, Kuwait, 1998 and 2002.
- Appointed **Treasurer and a member of the Board of Governors** for ASHRAE-Kuwait, 1998.

#### **HONORS AND SOCIETIES**

- Phi Kappa Phi -- National Honor Society
- Tau Beta Pi -- National Engineering Honor Society
- Sigma Xi -- The Scientific Research Society
- NSPE -- National Society of Professional Engineers
- AIAA -- American Institute of Aeronautics and Astronautics
- ASME -- American Society of Mechanical Engineering
- AFS -- American Filtration and Separation Society
- ANS -- American Nano Society
- SES -- Society of Engineering Science
- TAS -- Tennessee Academy of Science
- ASHRAE -- American Society for Heating, Refrigeration and Air conditioning Engineers

#### **DEPARTMENTAL ACTIVITIES AT PMU**

- Chaired the **ME Department** (2014 – 2016).
- Chaired the **ME Department Graduate Committee** (2014 – 2016).
- Chaired the **ME Department Promotion Committee** (2014 – 2016).
- Served on the **ME Department ABET Accrediation Committee** (2014 – 2016).
- Served on the **ME Department Research Committee** (2014-2016)
- Served as **Deputy Chair of University Research Committee on Policies** (November 2015).
- Supported **ASME Students Chapter in their Trips and Projects** (2014 – 2016).
- Proposed a **New ME Undergraduate Program** Benchmarked with Similar Programs in other Universities.
- Interviewed and **Recruited New Faculty Members** (2014 – 2016).

- Served **Faculty, Students, College, University and the Community** through Variuos Activities (2014 – 2016).
- Served as a Member of the **College of Engineering Council** (2014 – 2016).
- Served as a Member of the **College of Engineering Industry Advisory Board** (2014 – 2016).

#### **UNIVERSITY ACTIVITIES AT PMU**

- Served as a Member of the **PMU Rector’s Advisory Council** (2017 – present).
- Served as a Member of the **Academic Collaborations Council** (2017 – present).
- Served as a Member of the **Knowledge Project Advisory Committee** (2017 – present).
- Served on **Quality and Accreditation Committee** (2017 – present).
- Served as the Convener of **University Research Council** (2017 – present).
- Served on **Accreditation and Ranking Committee** (2016 – 2017).
- Served as the Convener of **Research and Endowed Chairs Committee** (2016 – 2017).
- Served on **University Strategic Plan Executive Committee** (2016 – present ).
- Served on **Senior Management Group, Senior Administrative Group and Senior Academic Group** (2016 – present).
- Served on **New Academic Projects Founding Committee** (2016 – present).
- Served as the Convener **University Graduate Studies Standing Committee** (2016 – present).
- Served on **Establishment of College of Medicine Committee** (2016 – present).
- Served as the Convener of **University Conference Committee** (2016 – present).
- Served on **University Governance Committee** (2016 – present).
- Served on the **Center for Peace and Tolerance Committee** (2016 – present).
- Established the **PMU Patent Center** (December 2016).
- Served on the **Saudi Vision 2030 Committee** (2016 – present).
- Served as a Member of the **University Scientific Council** (2016 – present).
- Served as a Member of the **University Deans’ Council** (2016 – present).
- Proposed Complete **Curricula for Three New B.Sc. Programs** (December 2016).

#### **DEPARTMENTAL ACTIVITIES AT PAAET**

- Served on the **Promotion Committee** (2003-2007, 2009, 2010)
- Served on the **Curriculum Development Committee** (2003-2004, 2009-2012)
- Served on the **Research Committee** (2003-2012)
- Served as **President of Department Scientific Society** (2004-2007)
- Served as **Chairman of ABET Committee** (2009-2012)

#### **DEPARTMENTAL ACTIVITIES AT KUWAIT UNIVERSITY**

- Served on university-level Salary Adjustment Committee for Scientific Assistants (Fall 1997).
- Chaired a college-level committee for common Engineering courses (1998-1999).
- Served on **Teaching Schedule Committee** (1997-1998) and (1998-1999).
- Served as **Annual Report Coordinator** (1996-1997) and (1997-1998).
- Served on Departmental Research Committee (1993-1994, 1999-2000).
- Served on **College Research Committee** (1993-1994).

- Served on **Student Advisory Committee** (1993-2003).
- Served on **Computer Committee** (1993-1994).
- Chairman of Departmental Research Committee (1994-1997).
- Thermodynamics and Dynamics Coordinator (1994-1995) and (1998), respectively.
- Engineering Conference Coordinator (Spring 1994).
- ASME-Kuwait **Vice Chairman and Faculty Advisor** (1994-1995).
- Member of the Center for Research and Experimental Thermal Sciences (CRETS).
- Served on the **Teamwork Committee for ABET 2000** (Fall 1997).
- Served on **Curriculum Development Committee for ABET 2000** (1997-1998).
- Served on **Alumni Committee for ABET 2000** (1999-2000).
- Served on **Outcome Assessment Committee for ABET 2000** (2000-2003).
- Served on **Academic Development Committee for ABET 2000** (2000-2001).
- Served on **Laboratory Committee** (2000-2003).
- Served as **Thermofluids Teaching Area Group Coordinator** (2000-2002)
- Served on the Department Budget Committee (1998-1999).
- Supervisor of the Department Energy Laboratory (2000-2003)
- Served on **Undergraduate Program Committee** (2001-2003).
- Served on **Graduate Program Committee** (2001-2002).
- Served on **Student Advisement Committee** (2001-2003).

#### COMMUNITY SERVICE ACTIVITIES

- Taught a five-days short course entitled “**Managerial and Technical Report Writing Skills**,” Ministry of Communications, Kuwait, Costa Del Sol Hotel, 28/9-2/10/ 2014.
- Taught a three-days short course entitled “**Strategic Planning Skills**,” PIC Managers, Kuwait, Holiday Inn-Salmiya, 19-21/8/2014.
- Taught a five-days short course entitled “**Time and Self Management Skills**,” Kuwait, Accredited Skills Institute, 23-27/3/2014.
- Taught a three-days short course entitled “**Leadership, Planning and Outstanding Customer Service**,” Kuwait, Accredited Skills Institute, 8-10/3/2014.
- Participated in a two-days Conference/Workshop on **Filtration and Separation** with training lectures entitled “**Industrial Filtration**,” Kuwait, Radisson Blue Hotel, 16-17/12/2013.
- Participated in a two-days Conference/Workshop on **Business Ethics** with training lectures entitled “**Business Ethics and Decision Making**,” Kuwait, Regency Hotel, 24-25/11/2013.
- Taught a three-days short course entitled “**Skills for Executive Control over Operational and Productive Processes**,” Kuwait, Costa Del Sol Hotel, 20-22/05/ 2013.
- Taught (with Dr. A. Aloraier) a five-days short course entitled “**Leadership and Management Skills**,” Kuwait, Ebn Al-Haitham Center, PAAET, 13-17/11/2011.
- Taught (with Dr. A. Aloraier) a five-days short course entitled “**Leadership and Management Skills**,” Kuwait, Ebn Al-Haitham Center, PAAET, 27-31/3/2011.
- Taught (with Dr. A. Aloraier) a five-days short course entitled “**Leadership and Management Skills**,” Kuwait, Ebn Al-Haitham Center, PAAET, 5-9/12/2010.
- Taught (with Dr. A. Aloraier) a five-days short course entitled “**Strategic Planning**,” Kuwait, Ebn Al-Haitham Center, PAAET, 7-11/11/2010.
- Taught (with Dr. Abu Yizid) a five-day short course entitled “**Design, Operation and Maintenance of Air Conditioning and Refrigeration Systems**,” Kuwait, 17-21/3/2006.
- Taught a two-days short course entitled “**Quality Audits**,” Kuwait, May 2006.

- Taught a two-days short course entitled “**Quality Audits**,” Kuwait, April 2006.
- Taught a two-days short course entitled “**Quality Management**,” Kuwait, May 2005.
- Taught a two-days short course entitled “**Quality Management**,” Kuwait, January 2005.
- Taught a three-months short course entitled “**Materials Technology**,” PAAET, Kuwait, 1/3-1/6/2005.
- Taught (with Professor J. Al-Hajji) a five-day short course entitled “**Valves Technology**,” Kuwait, 14-18/12/2002.
- Taught (with Professor J. Al-Hajji) a five-day short course entitled “**Flow Measurements and Valve Selection for Optimum System Performance**,” Kuwait, 9-13/3/2002.
- Taught (with Dr. I. Khorshid) a five-day short course entitled “**Filtration and Separation Technology**,” Kuwait, 12-16/1/2002.
- Taught (with Dr. O. Al-Hawaj) a five-day short course entitled “**Pumps and Pressurized Piping Systems: Performance, Computer Selection and Applications**,” Kuwait, 15-19/5/1999.
- Taught (with Dr. M. Eleshaky) a five-day short course entitled “**Flow Measurements and Valve Selection for Optimum System Performance**,” Kuwait, 12-16/12/1998.
- Taught (with Dr. S. Kassab and Dr. M. Eleshaky) a five-day short course entitled “**Flow Measurements and Valve Selection for Optimum System Performance**,” Kuwait, 28/3-1/4/1998.
- Taught (with Professor T. Al-Sahhaf) a five-day short course entitled “**Industrial Filtration**,” Kuwait, 8-12/3/1997.

#### INVITED PRESENTATIONS

- “**Modeling of Nanofluids Transport and Applications**.” Invited Distinguished Keynote Speaker, First International Conference on Energy Systems Engineering 2017 (ICESE17), Karabuk, Turkey, November 2-4, 2017.
- “**Nanofluids’ Theory and Applications**.” Invited Distinguished Keynote Speaker, The 4th International Conference of Mathematical Sciences (ICMS), Putrajaya, Malaysia, November 15-17, 2016.
- “**Development of a Multiphase Filtration Theory**.” Invited Keynote Speaker, The 22<sup>nd</sup> Annual International Conference on Mechanical Engineering, Shahid Chamran University, Ahvas, Iran, May 22-24, 2014.
- “**Heat Transfer Characteristics of Nanofluids**.” Invited Keynote Speaker, Basrah International Conference for Mechanical Engineering, University of Basrah, Iraq, May 8-10, 2014.
- “**A Unified Filtration Model Based on Multiphase Flow Theory**.” Invited Speaker, Islamic Azadi University, Tehran, February 6, 2012.
- “**A Systematic Approach to Filtration Modeling**.” Invited Keynote Speaker, ICoMS 2007, Johr Bahru, Malaysia, May 28-29, 2007.
- “**Reality of Scientific Research in the State of Kuwait**.” Abdul-Hamid Shoman Foundation, Amman, Jordan, November 27, 1999.
- “**Computer-Aided Modeling of Fluid Systems**.” Invited Speaker, Society of Automotive Engineers, Tennessee Tech. University Chapter, USA, November 5, 1992.

#### UNIVERSITY, COLLEGE & DEPARTMENT PRESENTATIONS

- “**The Art of Writing Scientific and Research Papers**”, Prince Mohammad Bin Fahd University, May 4, 2017.
- “**Effective Leadership and Strategic Planning**”, Prince Mohammad Bin Fahd University, October 19, 2015.

- "Heat Transfer Characteristics and Applications of Nanofluids", College of Engineering, Prince Mohammad Bin Fahd University, March 8, 2015.
- "Critical Thinking - The Art of Problem Solving and Argumentation", Production Engineering Technology Department, PAAET, October 5, 2010.
- "A Multiphase Theory for Filtration Modeling", Production Engineering Technology Department, PAAET, February 22, 2009.
- "ABET Accreditation Requirements", Production Engineering Technology Department, PAAET, January 18, 2009.
- "Mathematical Modeling and Experimental Verification of Multiphase Flows", College of Technological Studies, PAAET, 2006.

#### REFEREED JOURNAL PUBLICATIONS

1. **A.J. Chamkha** and J. Peddieson, "Boundary-Layer Flow of a Particulate Suspension Past a Flat Plate", **International Journal of Multiphase Flow**, Volume 6, pp. 805-808, 1991.
2. **A.J. Chamkha**, "Exact Solutions for Hydromagnetic Flow of a Particulate Suspension," **AIAA Journal**, Volume 30, No. 7, pp. 1922-1924, 1992.
3. **A.J. Chamkha**, "Convective Heat Transfer of a Particulate Suspension," **AIAA Journal of Thermophysics and Heat Transfer**, Volume 6, No. 3, pp. 551-553, 1992.
4. **A.J. Chamkha** and J. Peddieson, "Singular Behavior in Boundary-Layer Flow of a Dusty Gas", **AIAA Journal**, Volume 30, No. 12, pp. 2966-2968, 1992.
5. **A.J. Chamkha**, "Unsteady Flow of a Power-Law Dusty Fluid With Suction," **ASME Journal of Fluids Engineering**, Volume 115, No. 2, pp. 330-333, 1993.
6. **A.J. Chamkha**, "Thermal Flat Plate Boundary-Layer Solutions For a Particulate Suspension With a Finite Volume Fraction," **International Journal of Multiphase Flow**, Volume 19, No. 3, pp. 539-540, 1993.
7. M. Allaham, J. Peddieson and **A.J. Chamkha**, "Simulation of Collection Efficiencies For Shallow Filters", **Fluid/Particle Separation Journal**, Volume 6, pp. 119-122, 1993.
8. **A.J. Chamkha**, "Temperature and Heat Transfer Solutions for Aeromagnetic Dusty Gas Flow," **AIAA Journal of Thermophysics and Heat Transfer**, Volume 7, No. 3, pp. 529-531, 1993.
9. **A.J. Chamkha**, "Thermal Convection in a Particle-Laden Boundary Layer Flow Past a Flat Plate," **Mechanics Research Communications**, Volume 21, pp. 457-464, 1994.
10. **A.J. Chamkha**, "Flow of Non-Newtonian Particulate Suspension with a Compressible Particle Phase," **Mechanics Research Communications**, Volume 21, pp. 645-654, 1994.
11. **A.J. Chamkha**, "Transient Power-Law Fluid Flow in a Porous Medium Channel," **Fluid/Particle Separation Journal**, Volume 7, No. 1, pp. 4-7, 1994.
12. **A.J. Chamkha**, "Power-Law Dusty-Fluid Flow Between Two Parallel Porous Plates," **Fluid/Particle Separation Journal**, Volume 7, pp. 184-187, 1994.

13. **A.J. Chamkha**, "Unsteady Flow of a Dusty Conducting Fluid Through a Pipe," **Mechanics Research Communications**, Volume 21, No. 3, pp. 281-288, 1994.
14. **A.J. Chamkha** and J. Peddieson, "Boundary Layer Theory of a Particulate Suspension," **ASME Journal of Fluids Engineering**, Volume 116, pp. 147-153, 1994. This paper won the 1995 Kinslow Research Award in the College of Engineering at Tennessee Technological University.
15. **A.J. Chamkha**, "Analytical Solutions For Flow of a Dusty Fluid Between Two Porous Flat Plates," **ASME Journal of Fluids Engineering**, Volume 116, pp. 354-356, 1994.
16. **A.J. Chamkha**, "Effects of Particulate Diffusion on the Thermal Flat Plate Boundary Layer of a Two-Phase Suspension," **ASME Journal Heat Transfer**, Volume 116, pp. 236-239, 1994.
17. **A.J. Chamkha**, "Two-Phase Thermal Asymptotic Suction Profile," **ASME Journal Heat Transfer**, Volume 116, pp. 270-272, 1994.
18. **A.J. Chamkha**, J. Peddieson and M. Allaham, "Evaluation of a Finite Difference Method for Filtration", **Fluid/Particle Separation Journal**, Volume 8, No. 1, pp. 22-28, 1995.
19. M. Allaham, J. Peddieson and **A.J. Chamkha**, "Applications of the Method of Characteristics to Filtration Simulations", **Fluid/Particle Separation Journal**, Volume 8, No. 2, pp. 125-131, 1995.
20. M. Allaham, J. Peddieson and **A.J. Chamkha**, "Filtration Solutions for Variable Inputs". **Separations Technology**, Volume 5, pp. 105-113, 1995.
21. **A.J. Chamkha**, "Time-Dependent Two-Phase Channel Flow Due to an Oscillating Pressure Gradient" **Fluid/Particle Separation Journal**, Volume 8, pp. 196-203, 1995.
22. **A.J. Chamkha**, "Hydromagnetic Two-Phase Flow in a Channel," **International Journal of Engineering Science**, Volume 33, pp. 437-446, 1995.
23. **A.J. Chamkha**, "Unsteady Hydromagnetic Two-Phase Pipe Flow," **Fluid/Particle Separation Journal**, Volume 8, pp. 204-210, 1995.
24. **A.J. Chamkha**, "Compressible Two-Phase Boundary-Layer Flow with Finite Particulate Volume Fraction," **International Journal of Engineering Science**, Volume 34, pp. 1409-1422, 1996.
25. **A.J. Chamkha**, "Magnetohydrodynamics of a Particulate Suspension," **AIAA Journal of Propulsion and Power**, Volume 12, pp. 438-440, 1996.
26. **A.J. Chamkha**, "Compressible Dusty-Gas Boundary-Layer Flow Over a Flat Surface," **ASME Journal of Fluids Engineering**, Volume 118, pp. 179-185, 1996.
27. **A.J. Chamkha**, "Solutions for Fluid-Particle Flow and Heat Transfer in a Porous Channel," **International Journal of Engineering Science**, Volume 34, pp. 1423-1439, 1996.

28. **A.J. Chamkha**, "Non-Darcy Hydromagnetic Free Convection From a Cone and a Wedge in Porous Media," **International Communications in Heat and Mass Transfer**, Volume 23, pp. 875-887, 1996.
29. **A.J. Chamkha**, "Steady and Transient Magnetohydrodynamic Flow and Heat Transfer in a Porous Medium Channel." **Fluid/Particle Separation Journal**, Volume 9, pp. 129-135, 1996.
30. **A.J. Chamkha**, "Steady Parallel Flow of a Power-Law Dusty Fluid." **Fluid/Particle Separation Journal**, Volume 9, pp. 228-238, 1996.
31. **A.J. Chamkha**, "MHD Free Convection from a Vertical Plate Embedded in a Thermally Stratified Porous Medium." **Fluid/Particle Separation Journal**, Volume 9, pp. 195-206, 1996.
32. M. Elsayed and **A.J. Chamkha**, "Analysis and Performance of Radial Flow Rotary Desiccant Dehumidifiers". **ASME Journal of Solar Energy Engineering**, Volume 119, pp. 35-43, 1997.
33. **A.J. Chamkha**, "Solar Radiation Assisted Natural Convection in a Uniform Porous Medium Supported by a Vertical Flat Plate." **ASME Journal of Heat Transfer**, Volume 119, pp. 89-96, 1997.
34. **A.J. Chamkha**, "Unsteady Free Convection Flow in a Porous Medium Channel Subjected To a Transverse Magnetic Field". **Fluid/Particle Separation Journal**, Volume 10, pp. 22-27, 1997.
35. **A.J. Chamkha**, "Hydromagnetic Free Convection Flow Over an Inclined Plate caused by Solar Radiation". **AIAA Journal of Thermophysics and Heat Transfer**, Volume 11, pp. 312-315, 1997.
36. **A.J. Chamkha**, "A Note on Unsteady Hydromagnetic Free Convection From a Vertical Fluid Saturated Porous Medium Channel." **ASME Journal of Heat Transfer**, Volume 119, pp. 638-641, 1997.
37. **A.J. Chamkha**, "Unsteady Flow of an Electrically Conducting Dusty-Gas in a Channel Due to an Oscillating Pressure Gradient." **Applied Mathematical Modelling**, Volume 21, pp. 287-292, 1997.
38. **A.J. Chamkha**, "Transient Non-Newtonian Flow of a Suspension with a Compressible Particle Phase." **Mechanics Research Communications**, Volume 24, pp. 41-47, 1997.
39. **A.J. Chamkha**, "Similarity Solution for Thermal Boundary Layer on a Stretched Surface of a Non-Newtonian Fluid". **International Communications in Heat and Mass Transfer**, Volume 24, pp. 643-652, 1997.
40. **A.J. Chamkha**, "Similarity Solutions for Buoyancy-Induced Flow of a Power-Law Fluid over a Horizontal Surface Immersed in a Porous Medium". **International Communications in Heat and Mass Transfer**, Volume 24, pp. 805-814, 1997.
41. **A.J. Chamkha**, "Hydromagnetic Flow and Heat Transfer of a Heat-Generating Fluid over a Surface Embedded in a Porous Medium". **International Communications in Heat and Mass Transfer**, Volume 24, pp. 815-825, 1997.



42. **A.J. Chamkha**, "MHD Free Convection from a Vertical Plate Embedded in a Porous Medium with Hall Effects." **Applied Mathematical Modelling**, Volume 21, pp. 603-609, 1997.
43. M. Al-Aradah, **A.J. Chamkha**, and K. Khanafer "Flow and Heat Transfer of a Non-Newtonian Fluid in a Porous Medium", **Fluid/Particle Separation Journal**, Volume 10, pp. 67-72, 1997.
44. **A.J. Chamkha**, "Numerical Investigation for a Two-Phase Compressible Boundary Layer." **Fluid/Particle Separation Journal**, Volume 10, pp. 160-170, 1997.
45. **A.J. Chamkha**, "Transient MHD Free Convection from a Porous Medium Supported by a Surface." **Fluid/Particle Separation Journal**, Volume 10, pp. 101-107, 1997.
46. **A.J. Chamkha**, "Non-Darcy Fully Developed Mixed Convection in a Porous Medium Channel with Heat Generation/Absorption and Hydromagnetic Effects," **Numerical Heat Transfer, Part A**, Volume 32, pp. 653-675, 1997.
47. **A.J. Chamkha**, "Hydromagnetic Natural Convection from an Isothermal Inclined Surface Adjacent to a Thermally Stratified Porous Medium." **International Journal of Engineering Science**, Volume 35, pp. 975-986, 1997.
48. **A.J. Chamkha** and H. Ramadan, "Analytical Solutions for the Two-Phase Free Convection Flow of a Particulate Suspension Past an Infinite Vertical Plate". **International Journal of Engineering Science**, Volume 36, pp. 49-60, 1998.
49. **A.J. Chamkha**, "Hydromagnetic Plane and Axisymmetric Flow Near a Stagnation Point with Heat Generation". **International Communications in Heat and Mass Transfer**, Volume 25, pp. 269-278, 1998.
50. **A.J. Chamkha**, "Particulate Viscous Effects on the Compressible Boundary-Layer Two-Phase Flow Over a Flat Plate." **International Communications in Heat and Mass Transfer**, Volume 25, pp. 279-288, 1998.
51. K. Khanafer and **A.J. Chamkha**, "A Numerical Investigation for Hydromagnetic Natural Convection in a Square Porous Medium-Filled Enclosure". **Fluid/Particle Separation Journal**, Volume 11, pp. 25-38, 1998.
52. **A.J. Chamkha** and K. Khanafer, "A Numerical Study For the Two-Phase Compressible Boundary-Layer Flow Over an Isothermal Surface". **Fluid/Particle Separation Journal**, Volume 11, pp. 107-115, 1998.
53. **A.J. Chamkha**, "Effects of Particulate Diffusion on the Compressible Boundary-Layer Flow of a Two-Phase Suspension Over a Horizontal Surface." **ASME Journal of Fluids Engineering**, Volume 120, pp. 146-151, 1998.
54. **A.J. Chamkha**, "Mixed Convection Flow along a Vertical Permeable Plate Embedded in Porous Medium in the Presence of a Transverse Magnetic Field". **Numerical Heat Transfer, Part A**, Volume 34, pp. 93-103, 1998.
55. **A.J. Chamkha**, "Hydromagnetic Mixed Convection Stagnation Flow with Suction and Blowing". **International Communications in Heat and Mass Transfer**, Volume 25, pp. 417-426, 1998.

56. **A.J. Chamkha**, "Unsteady Hydromagnetic Flow and Heat Transfer on a Non-Isothermal Stretching Sheet Immersed in a Porous Medium". **International Communications in Heat and Mass Transfer**, Volume 25, pp. 899-906, 1998.
57. K. Khanafer and **A.J. Chamkha**, "Hydromagnetic Natural Convection from an Inclined Porous Square Enclosure with Heat Generation". **Numerical Heat Transfer, Part A**, Volume 33, pp. 891-910, 1998.
58. **A.J. Chamkha**, "Magnetohydrodynamic Free Convection Flow Over a Vertical Wedge Due to Solar Radiation". **Fluid/Particle Separation Journal**, Volume 11, pp. 266-283, 1998.
59. **A.J. Chamkha**, "Magnetohydrodynamic Mixed Convection from a Rotating Cone Embedded in a Porous Medium with Heat Generation". **Journal of Porous Media**, Volume 2, pp. 87-106, 1999.
60. **A.J. Chamkha**, "Hydromagnetic Three-Dimensional Free Convection on a Vertical Stretching Surface with Heat Generation or Absorption". **International Journal of Heat and Fluid Flow**, Volume 20, pp. 84-92, 1999.
61. H. Ramadan and **A.J. Chamkha**, "Two-Phase Free Convection Flow Over an Infinite Permeable Inclined Plate with Non-Uniform Particle-Phase Density". **International Journal of Engineering Science**, Volume 37, pp. 1351-1367, 1999.
62. **A.J. Chamkha** and K. Khanafer, "Non-Similar Combined Convection Flow Over a Vertical Surface Embedded in a Variable Porosity Medium". **Journal of Porous Media**, Volume 2, pp. 231-249, 1999.
63. K. M. Khanafer and **A.J. Chamkha**, "Mixed Convection Flow in a Lid-Driven Enclosure Filled with a Fluid-Saturated Porous Medium". **International Journal of Heat and Mass Transfer**, Volume 42, pp. 2465-2481, 1999.
64. H.S. Takhar, **A.J. Chamkha**, and G. Nath, "Unsteady Flow and Heat Transfer on a Semi-infinite Flat Plate with an Aligned Magnetic Field". **International Journal of Engineering Science**, Volume 37, pp. 1723-1736, 1999.
65. **A.J. Chamkha**, "Effect of Combined Particle-Phase Diffusivity and Viscosity on the Compressible Boundary Layer of a Particulate Suspension over a Flat Surface". **ASME Journal of Heat Transfer**, Volume 121, pp. 420-429, 1999.
66. **A.J. Chamkha** and A.-R.A. Khaled, "Nonsimilar Hydromagnetic Simultaneous Heat and Mass Transfer by Mixed Convection From a Vertical Plate Embedded in a Uniform Porous Medium". **Numerical Heat Transfer, Part A**, Volume 36, pp. 327-344, 1999.
67. **A.J. Chamkha** and C. Issa, "Mixed Convection Effects on Unsteady Flow and Heat Transfer Over a Stretched Surface". **International Communications in Heat and Mass Transfer**, Volume 26, No. 5, pp 717-728, 1999.
68. **A.J. Chamkha** and J. A. Adeb, "Oscillatory Natural Convection Flow of a Two-Phase Suspension Over a Surface in the Presence of Magnetic Field and Heat Generation Effects". **International Journal of Fluid Mechanics Research**, Volume 26, pp. 643-659, 1999.

69. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Unsteady Axisymmetric Stagnation-Point Flow of a Viscous Fluid on a Cylinder". **International Journal of Engineering Science**, Volume 37, pp. 1943-1957, 1999.
70. **A.J. Chamkha**, "Transient Hydromagnetic Non-Darcy Free Convection From a Vertical Fluid Saturated Porous Medium Channel." **Fluid/Particle Separation Journal**, Volume 12, pp. 155-160, 1999.
71. **A.J. Chamkha** and A.-R.A. Khaled, "Similarity Solutions for Hydromagnetic Mixed Convection Heat and Mass Transfer for Hiemenz Flow Through Porous Media". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 10, pp. 94-115, 2000.
72. **A.J. Chamkha**, "The Stokes Problem for a Dusty Fluid in the Presence of Magnetic Field, Heat Generation and Wall Suction Effects". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 10, pp. 116-133, 2000.
73. **A.J. Chamkha** and A.-R.A. Khalid, "Hydromagnetic Simultaneous Heat and Mass Transfer by Mixed Convection from a Vertical Plate Embedded in a Stratified Porous Medium with Thermal Dispersion Effects". **Heat and Mass Transfer**, Vol. 36, pp. 63-70, 2000.
74. **A.J. Chamkha**, A.-R.A. Khalid and O. Al-Hawaj, "Simultaneous Heat and Mass Transfer by Natural Convection from a Cone and a Wedge in Porous Media". **Journal of Porous Media**, Volume 3, pp. 155-164, 2000.
75. **A.J. Chamkha**, "Effects of Heat Absorption and Thermal Radiation on Heat Transfer in a Fluid-Particle Flow Past a Surface in the Presence of a Gravity Field." **International Journal of Thermal Sciences**, Volume 39, pp. 605-615, 2000.
76. H.S. Takhar, **A.J. Chamkha**, and G. Nath, "Combined Heat and Mass Transfer Along a Vertical Moving Cylinder with a Free Stream." **Heat and Mass Transfer**, Volume 36, pp. 237-246, 2000.
77. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Flow and Mass Transfer on a Stretching Sheet with a Magnetic Field and Chemically Reactive Species". **International Journal of Engineering Science**, Volume 38, pp. 1303-1314, 2000.
78. **A.J. Chamkha**, "Transient Hydromagnetic Three-Dimensional Natural Convection from an Inclined Stretching Permeable Surface". **Chemical Engineering Journal**, Volume 76, pp. 159-168, 2000.
79. **A.J. Chamkha**, "Thermal Radiation and Buoyancy Effects on Hydromagnetic Flow Over an Accelerating Permeable Surface with Heat Source or Sink." **International Journal of Engineering Science**, Volume 38, pp. 1699-1712, 2000.
80. **A.J. Chamkha**, "Unsteady Laminar Hydromagnetic Fluid-Particle Flow and Heat Transfer in Channels and Circular Pipes". **International Journal of Heat and Fluid Flow**, Volume 21, pp. 740-746, 2000.
81. **A.J. Chamkha**, "Non-Similar Solutions for Heat and Mass Transfer by Hydromagnetic Mixed Convection Flow Over a Plate in Porous Media with Surface Suction or Injection." **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 10, pp. 142-162, 2000.

82. **A.J. Chamkha** and A.-R.A. Khalid, "Hydromagnetic Coupled Heat and Mass Transfer by Natural Convection from a Permeable Constant Heat Flux Surface in Porous Media". **Journal of Porous Media**, Volume 3, pp. 259-266, 2000.
83. **A.J. Chamkha**, "Flow of Two-Immiscible Fluids in Porous and Non-Porous Channels". **ASME Journal of Fluids Engineering**, Volume 122, pp. 117-124, 2000.
84. **A.J. Chamkha**, "Hydromagnetic Flow and Heat Transfer of a Particulate Suspension Over a Non-Isothermal Surface With Variable Properties". **International Journal of Fluid Mechanics Research**, Volume 27, pp. 386-402, 2000.
85. **A.J. Chamkha** and J. Peddieson, "Boundary Layer Flow of a Fluid-Particle Suspension Past a Flat Plate in the Presence of a Magnetic Field". **International Journal of Fluid Mechanics Research**, Volume 27, pp. 403-418, 2000.
86. H. Ramadan and **A.J. Chamkha**, "Analytical Solutions for Hydromagnetic Free Convection of a Particulate Suspension from an Inclined Plate with Heat Absorption". **International Journal of Fluid Mechanics Research**, Volume 27, pp. 447-467, 2000.
87. **A.J. Chamkha** and C. Issa, "Effects of Heat Generation/Absorption and Thermophoresis on Hydromagnetic Flow with Heat and Mass Transfer Over a Flat Surface". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 10, pp. 432-449, 2000.
88. **A.J. Chamkha** and A.-R.A. Khaled, "Hydromagnetic Combined Heat and Mass Transfer by Natural Convection from Permeable Surface Embedded in a Fluid-Saturated Porous Medium". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 10, pp. 455-477, 2000.
89. **A.J. Chamkha**, "Combined Convection Heat Transfer from a Rotating Cone Embedded in a Power-Law Fluid-Saturated Porous Medium". **Fluid/Particle Separation Journal**, Volume 13, pp. 12-29, 2000.
90. **A.J. Chamkha** and H. Al-Naser, "Double-Diffusive Convection in an Inclined Porous Enclosure with Opposing Temperature and Concentration Gradients." **International Journal of Thermal Sciences**, Volume 40, 227-244, 2001.
91. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Unsteady Three-Dimensional MHD-Boundary-Layer Flow Due to the Impulsive Motion of a Stretching Surface". **Acta Mechanica**, Volume 146, pp. 59-71, 2001.
92. **A.J. Chamkha**, C. Issa, and K. Khanafer, "Natural Convection Due to Solar Radiation from a Vertical Plate Embedded in a Porous Medium with Variable Porosity". **Journal of Porous Media**, Volume 4, pp. 69-77, 2001.
93. **A.J. Chamkha** and A.-R.A. Khaled, "Similarity Solutions for Hydromagnetic Simultaneous Heat and Mass Transfer by Natural Convection from an Inclined Plate with Internal Heat Generation or Absorption". **Heat and Mass Transfer**, Volume 37, pp. 117-123, 2001.

94. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Natural Convection Flow from a Continuously Moving Vertical Surface Immersed in a Thermally Stratified Medium." **Heat and Mass Transfer**, Volume 38, pp. 17-24, 2001.
95. **A.J. Chamkha**, "Coupled Heat and Mass Transfer by Natural Convection About a Truncated Cone in the Presence of Magnetic Field and Radiation Effects". **Numerical Heat Transfer, Part A**, Volume 39, pp. 511-530, 2001.
96. **A.J. Chamkha**, "On Two-Dimensional Laminar Hydromagnetic Fluid-Particle Flow Over a Surface in the Presence of a Gravity Field." **ASME Journal of Fluids Engineering**, Volume 123, pp. 43-49, 2001.
97. P. Nagaraju, **A.J. Chamkha**, H.S. Takhar, and B.C. Chandrasekhara, "Simultaneous Radiative and Convective Heat Transfer in a Variable Porosity Medium" **Heat and Mass Transfer**, Volume 37, pp. 243-250, 2001.
98. A.-R. A. Khalid and **A.J. Chamkha**, "Variable Porosity and Thermal Dispersion Effects on Coupled Heat and Mass Transfer by Natural Convection From a Surface Embedded in a Non-Metallic Porous Medium". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 11, pp. 413-429, 2001.
99. **A.J. Chamkha** and M.A. Quadri, "Heat and Mass Transfer From a Permeable Cylinder in a Porous Medium with Magnetic Field and Heat Generation/Absorption Effects." **Numerical Heat Transfer, Part A**, Volume 40 pp. 387-401, 2001.
100. **A.J. Chamkha**, "Unsteady Laminar Hydromagnetic Flow and Heat Transfer in Porous Channels with Temperature-Dependent Properties". **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 11, pp. 430-448, 2001.
101. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Unsteady Laminar MHD Flow and Heat Transfer in the Stagnation Region of an Impulsively Spinning and Translating Sphere in the Presence of Buoyancy Forces." **Heat and Mass Transfer**, Volume 37, pp. 397-402, 2001.
102. **A.J. Chamkha**, H.S. Takhar and G. Nath, "Effect of Buoyancy Forces on the Flow and Heat Transfer Over a Continuous Moving Vertical or Inclined Surface." **International Journal of Thermal Sciences**, Volume 40, pp. 825-833, 2001.
103. **A.J. Chamkha**, H.S. Takhar, and V.M. Soundalgekar, "Radiation Effects on Free Convection Flow Past a Semi-Infinite Vertical Plate with Mass Transfer." **Chemical Engineering Journal**, Volume 84, pp. 335-342, 2001.
104. **A.J. Chamkha**, "Coupled Heat and Mass Transfer by Natural Convection from a Permeable Non-Isothermal Vertical Plate Embedded in Porous Media." **International Journal of Fluid Mechanics Research**, Volume 28, pp. 449-462, 2001.
105. **A.J. Chamkha**, "Hydromagnetic Flow and Heat Transfer over a Non-Isothermal Power-Law Stretched Surface with Heat Generation". **International Journal of Fluid Mechanics Research**, Volume 28, pp. 463-483, 2001.
106. **A.J. Chamkha**, "Double-Diffusive Convection in a Porous Enclosure with Cooperating Temperature and Concentration Gradients and Heat Generation or Absorption Effects." **Numerical Heat Transfer, Part A**, Volume 41, pp. 65-87, 2002.

107. **A.J. Chamkha**, C. Issa, and K. Khanafer, "Natural Convection from an Inclined Plate Embedded in a Variable Porosity Porous Medium Due to Solar Radiation," **International Journal of Thermal Sciences**, Volume 41, pp. 73-81, 2002.
108. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Natural Convection on a Vertical Cylinder Embedded in a Thermally Stratified High-Porosity Medium." **International Journal of Thermal Sciences**, Volume 41, pp. 83-93, 2002.
109. **A.J. Chamkha**, " On Laminar Hydromagnetic Mixed Convection Flow in a Vertical Channel with Symmetric and Asymmetric Wall Heating Conditions." **International Journal of Heat and Mass Transfer**, Volume 44, pp. 2509-2525, 2002.
110. **A.J. Chamkha** and H. Al-Naser, "Hydromagnetic Double-Diffusive Convection in a Rectangular Enclosure with Opposing Temperature and Concentration Gradients." **International Journal of Heat and Mass Transfer**, Volume 44, pp. 2465-2483, 2002.
111. **A.J. Chamkha**, "Hydromagnetic Combined Convection Flow in a Vertical Lid-Driven Cavity Enclosure with Internal Heat Generation or Absorption." **Numerical Heat Transfer, Part A**, Volume 41, pp. 529-546, 2002.
112. **A.J. Chamkha** and M.A. Quadri, "Combined Heat and Mass Transfer by Hydromagnetic Natural Convection Over a Cone Embedded in a Non-Darcian Porous Medium with Heat Generation/Absorption Effects." **Heat and Mass Transfer**, Volume 38, pp. 487-495, 2002.
113. H.S. Takhar, **A.J. Chamkha** and G. Nath, "MHD Flow Over a Moving Plate in a Rotating Fluid with Magnetic Field, Hall Currents and Free Stream Velocity." **International Journal of Engineering Science**, Volume 40, pp. 1511-1527, 2002.
114. **A.J. Chamkha** and H. Al-Naser, "Hydromagnetic Double-Diffusive Convection in a Rectangular Enclosure with Uniform Side Heat and Mass Fluxes and Opposing Temperature and Concentration Gradients." **International Journal of Thermal Sciences**, Volume 41, pp. 936-948, 2002.
115. **A.J. Chamkha**, T. Grosan and I. Pop, " Fully Developed Free Convection of a Micropolar Fluid in a Vertical Channel." **International Communications in Heat and Mass Transfer**, Volume 29, pp. 1119-1127, 2002.
116. **A.J. Chamkha** "Laminar Hydromagnetic Natural Convection Flow along a Heated Vertical Surface in a Stratified Environment with Internal Heat Absorption". **Canadian Journal of Physics**, Volume 80, pp. 1145-1156, 2002.
117. **A.J. Chamkha**, "Effects of Magnetic Field and Heat Generation/Absorption on Natural Convection from an Isothermal Surface in a Stratified Environment." **International Journal of Fluid Mechanics Research**, Volume 29, pp. 669-681, 2002.
118. **A.J. Chamkha**, H.S. Takhar, and O.A. Beg, "Numerical Modelling of Darcy-Brinkman-Forchheimer Magnetohydrodynamic Mixed Convection Flow in a Porous Medium with Transpiration and Viscous Heating." **International Journal of Fluid Mechanics Research**, Volume 29, pp. 1-26, 2002.

119. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Flow and Heat Transfer on a Stretching Surface in a Rotating Fluid with a Magnetic Field." **International Journal of Thermal Sciences**, Volume 42, pp. 23-31, 2003.
120. K. Khanafer and **A.J. Chamkha**, "Mixed Convection within a Porous Heat Generating Horizontal Annulus." **International Journal of Heat and Mass Transfer**, Volume 46, pp. 1725-1735, 2003.
121. **A.J. Chamkha**, "MHD Flow of a Uniformly Stretched Vertical Permeable Surface in the Presence of Heat Generation/Absorption and a Chemical Reaction." **International Communications in Heat and Mass Transfer**, Volume 30, pp. 413-422, 2003.
122. M. Al-Subaie and **A. J. Chamkha**, "Steady Natural Convection Flow of a Particulate Suspension Through a Parallel-Plate Channel." **Heat and Mass Transfer**, Volume 39, pp. 337-343, 2003.
123. **A.J. Chamkha**, M.A. Quadri and C. Issa, "Thermal Radiation Effects on MHD Forced Convection Flow Adjacent to a Non-Isothermal Wedge in the Presence of a Heat Source or Sink". **Heat and Mass Transfer**, Volume 39, pp. 305-312, 2003.
124. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Unsteady Mixed Convection Flow from a Rotating Vertical Cone with a Magnetic Field." **Heat and Mass Transfer**, Volume 39, pp. 297-304, 2003.
125. H. Ramadan and **A.J. Chamkha**, "Hydromagnetic Free Convection of a Particulate Suspension from a Permeable Inclined Plate with Heat Absorption for Non-uniform Particle-Phase Density." **Heat and Mass Transfer**, Volume 39, pp. 367-374, 2003.
126. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Natural Convection on a Thin Vertical Cylinder Moving in a High-Porosity Ambient Medium." **International Journal of Engineering Science**, Volume 41, pp. 1935-1950, 2003.
127. **A.J. Chamkha** and M.A. Quadri, "Simultaneous Heat and Mass Transfer by Natural Convection From a Plate Embedded in a Porous Medium with Thermal Dispersion Effects". **Heat and Mass Transfer**, Volume 39, pp. 561-569, 2003.
128. **A.J. Chamkha**, "Effects of Heat Generation on g-Jitter Induced Natural Convection Flow in a Channel with Isothermal or Isoflux Walls". **Heat and Mass Transfer**, Volume 39, pp. 553-560, 2003.
129. H.S. Takhar, **A.J. Chamkha** and G. Nath, "Effects of Non-Uniform Wall Temperature or Mass Transfer in Finite Sections of an Inclined Plate on the MHD Natural Convection Flow in a Temperature Stratified High-Porosity Medium." **International Journal of Thermal Sciences**, Volume 42, pp. 829-836, 2003.
130. **A.J. Chamkha**, "Unsteady MHD Convective Heat and Mass Transfer Past a Semi-Infinite Vertical Permeable Plate with Heat Absorption." **International Journal of Engineering Science**, Volume 42, pp. 217-230, 2003.
131. H.S. Takhar, O.A. Beg, **A.J. Chamkha**, D. Filip, and I. Pop, "Mixed Radiation-Convection Boundary Layer Flow of an Optically Dense Fluid Along a Vertical Flat Plate in a Non-Darcy Porous Medium." **International Journal of Applied Mechanical Engineering**, Volume 8, pp. 483-496, 2003.

132. **A.J. Chamkha**, H.S. Takhar and G. Nath, “Unsteady MHD Rotating Flow Over a Rotating Sphere Near the Equator.” **Acta Mechanica**, Volume 164, pp. 31-46, 2003.
133. **A.J. Chamkha**, T. Grosan and I. Pop, “ Fully Developed Mixed Convection of a Micropolar Fluid in a Vertical Channel.” **International Journal of Fluid Mechanics Research**, Volume 30, pp. 251-263, 2003.
134. M. Al-Subaie and **A. J. Chamkha**, “Analytical Solutions for Hydromagnetic Natural Convection Flow of a Particulate Suspension Through a Channel with Heat Generation or Absorption Effects.” **Heat and Mass Transfer**, Volume 39, pp. 701-707, 2003.
135. **A.J. Chamkha**, M. Jaradat and I. Pop, “Three-Dimensional Micropolar Flow Due to a Stretching Flat Surface.” **International Journal of Fluid Mechanics Research**, Volume 30, pp. 357-366, 2003.
136. H.S. Takhar, **A.J. Chamkha** and G. Nath, “Effect of Thermophysical Quantities on the Natural Convection Flow of Gases Over a Vertical Cone.” **International Journal of Engineering Science**, Volume 42, pp. 243-256, 2004.
137. M. Al-Subaie and **A. J. Chamkha**, “Steady Natural Convection Flow of a Particulate Suspension Through a Circular Pipe.” **Heat and Mass Transfer**, Volume 40, pp. 673-678, 2004.
138. M. Al-Subaie and **A. J. Chamkha**, “Transient Natural Convection Flow of a Particulate Suspension Through a Vertical Channel.” **Heat and Mass Transfer**, Volume 40, pp. 707-713, 2004.
139. **A.J. Chamkha**, M. Jaradat and I. Pop, “Thermophoresis Free Convection from a Vertical Cylinder Embedded in a Porous Medium.” **International Journal of Applied Mechanics and Engineering**, Volume 9, pp. 471-481, 2004.
140. **A.J. Chamkha** and I. Pop, “Effect of Thermophoresis Particle Deposition in Free Convection Boundary Layer From a Vertical Flat Plate Embedded in a Porous Medium.” **International Communications in Heat and Mass Transfer**, Volume 31, pp. 421-430, 2004.
141. **A.J. Chamkha**, H.S. Takhar and G. Nath, “Mixed Convection Flow Over a Vertical Plate with Localized Heating (Cooling), Magnetic Field and Suction (Injection).” **Heat and Mass Transfer**, Volume 40, pp. 835-841, 2004.
142. **A.J. Chamkha** and A. Al-Mudhaf, “Simultaneous Heat and Mass Transfer From a Permeable Sphere at Uniform Heat and Mass Fluxes with Magnetic Field and Radiation Effects.” **Numerical Heat Transfer, Part A**, Volume 46, pp. 181-198, 2004.
143. **A.J. Chamkha**, J.C. Umavathi and Abdul Mateen, “Oscillatory Flow and Heat Transfer in Two Immiscible Fluids.” **International Journal of Fluid Mechanics Research**, Volume 31, pp. 13-36, 2004.
144. **A.J. Chamkha**, H.S. Takhar and O.A. Beg, “Radiative Free Convective Non-Newtonian Fluid Flow Past a Wedge Embedded in a Porous Medium.” **International Journal of Fluid Mechanics Research**, Volume 31, pp. 101-115, 2004.



145. A. Al-Mudhaf and **A.J. Chamkha**, “Natural Convection of Liquid Metals in an Inclined Enclosure in the Presence of a Magnetic Field.” **International Journal of Fluid Mechanics Research**, Volume 31, pp. 221-243, 2004.
146. H.S. Takhar, **A.J. Chamkha** and G. Nath, “Natural Convection MHD Flow on a Continuous Moving Inclined Surface Embedded in a Non-Darcian High-Porosity Medium.” **Indian Journal of Pure and Applied Mathematics**, Volume 35, pp. 1321-1342, 2004.
147. **A.J. Chamkha**, A. Al-Mudhaf and J. Al-Yatama, “Double-Diffusive Convective Flow of a Micropolar Fluid over a Vertical Plate Embedded in a Porous Medium with a Chemical Reaction.” **International Journal of Fluid Mechanics Research**, Volume 31, pp. 529-551, 2004.
148. **A.J. Chamkha**, C. Bercea, and I. Pop, “Free Convection From a Vertical Cylinder Embedded in a Porous Medium Filled with Cold Water.” **International Journal of Applied Mechanics and Engineering**, Volume 9, 273-283, 2004.
149. **A.J. Chamkha**, H.S. Takhar and G. Nath, “Unsteady Compressible Boundary Layer Flow Over a Circular Cone Near a Plane of Symmetry.” **Heat and Mass Transfer**, Volume 41, pp. 632-641, 2005.
150. **A.J. Chamkha** and A. Al-Mudhaf, “Unsteady Heat and Mass Transfer From a Rotating Vertical Cone with a Magnetic Field and Heat Generation or Absorption Effects.” **International Journal of Thermal Sciences**, Volume 44, pp. 267-276, 2005.
151. J.C. Umavathi, J.P. Kumar, **A.J. Chamkha**, and I. Pop, “Mixed Convection in a Vertical Porous Channel.” **Transport in Porous Media**, Volume 61, pp. 315-335, 2005.
152. H.S. Takhar, **A.J. Chamkha** and G. Nath, “Unsteady Mixed Convection on the Stagnation-Point Flow Adjacent to a Vertical Plate with a Magnetic Field.” **Heat and Mass Transfer**, Volume 41, pp. 387-398, 2005.
153. J.C. Umavathi, **A.J. Chamkha**, M.H. Manjula and A. Al-Mudhaf, “Flow and Heat Transfer of a Couple Stress Fluid Sandwiched Between Viscous Fluid Layers.” **Canadian Journal of Physics**, Volume 83, pp. 705-720, 2005.
154. **A.J. Chamkha**, “Modeling of Multi-Species Contaminant Transport with Spatially-Dependent Dispersion and Coupled Linear/Non-Linear Reactions.” **International Journal of Fluid Mechanics Research**, Volume 32, pp. 1-20, 2005.
155. H.S. Takhar, **A.J. Chamkha** and R.S.R. Gorla, “Combined Convection-Radiation Interaction Along a Vertical Flat Plate in a Porous Medium.” **International Journal of Fluid Mechanics Research**, Volume 32, pp. 139-156, 2005.
156. J.C. Umavathi, **A.J. Chamkha**, M.H. Manjula and A. Al-Mudhaf, “Magneto-Convection of a Two-Fluid Flow Through a Vertical Channel.” **International Journal of Heat & Technology**, Volume 23, pp. 151-163, 2005.
157. H.M. Duwairi, **A.J. Chamkha**, “Transient Free Convection Flow of a Micropolar Fluid Over a Vertical Surface.” **International Journal of Fluid Mechanics Research**, Volume 23, pp. 255-268, 2005.

158. J.C. Umavathi, **A.J. Chamkha**, A. Mateen and A. Al-Mudhaf, “Unsteady Two-Fluid Flow and Heat Transfer in a Horizontal Channel.” **Heat and Mass Transfer**, Volume 42, pp. 81-90, 2005.
159. A. Al-Mudhaf and **A.J. Chamkha**, “Similarity Solutions for MHD Thermosolutal Marangoni Convection Over a Flat Surface in the Presence of Heat Generation or Absorption Effects.” **Heat and Mass Transfer**, Volume 42, pp. 112-121, 2005.
160. **A.J. Chamkha**, H.S. Takhar and G. Nath, “Natural Convection Flow in a Rotating Fluid Over a Vertical Plate Embedded in a Thermally Stratified High-Porosity Medium.” **International Journal of Fluid Mechanics Research**, Volume 32, pp. 511-527, 2005.
161. O.A. Beg, H.S. Takhar, T.A. Beg, **A.J. Chamkha**, G. Nath and R. Majeed, “Modelling Convection Heat Transfer in a Rotating Fluid in a Thermally-Stratified High-Porosity Medium: Numerical Finite Difference Solutions.” **International Journal of Fluid Mechanics Research**, Volume 32, pp. 383-401, 2005.
162. A. Ben-Nakhi and **A.J. Chamkha** “Natural Convection in Inclined Partitioned Enclosures.” **Heat and Mass Transfer**, Volume 42, pp. 311-321, 2006.
163. **A.J. Chamkha**, I. Pop, and H.S. Takhar “Marangoni Mixed Convection Boundary Layer Flow.” **Meccanica**, Volume 41, pp. 219-232, 2006.
164. J.C. Umavathi, Abdul Mateen, **A.J. Chamkha**, and A. Al-Mudhaf, “Oscillatory Hartmann Two-Fluid Flow and Heat Transfer in a Horizontal Channel.” **International Journal of Applied Mechanics and Engineering**, Volume 11, pp. 155-178, 2006.
165. J. Al-Humoud, **A.J. Chamkha**, “Double-Diffusive Convection of a Rotating Fluid over a Surface Embedded in a Thermally Stratified High-Porosity Medium.” **International Journal of Heat & Technology**, Volume 24, pp. 51-60, 2006.
166. J. Al-Humoud, **A.J. Chamkha**, “Double-diffusive Convection from a Vertical Cylinder in a Thermally Stratified Non-Darcian Porous Medium.” **International Journal of Heat & Technology**, Volume 24, pp. 69-78, 2006.
167. **A.J. Chamkha** and F. Abdulgafoor, “Double-Diffusive Convection in a Tilted Enclosure Filled with a Non-Darcian Porous Medium.” **International Journal of Heat & Technology**, Volume 24, pp. 141-152, 2006.
168. A. Ben-Nakhi and **A.J. Chamkha** “Effect of Length and Inclination of a Thin Fin on Natural Convection in a Square Enclosure.” **Numerical Heat Transfer, Part A**, Volume 50, pp. 381-399, 2006.
169. O.A. Beg, H.S. Takhar, G. Nath, **A.J. Chamkha**, “Mathematical Modelling of Hydromagnetic Convection from a Rotating Sphere with Impulsive Motion and Buoyancy Effects.” **Nonlinear Analysis: Modelling and Control**, Volume 11, pp. 227–245, 2006.
170. **A.J. Chamkha**, C. Bercea and I. Pop, “Free Convection Over a Truncated Cone Embedded in a Porous Medium Saturated with Pure or Saline Water at Low Temperatures.” **Mechanics Research Communications**, Volume 33, pp. 433-440, 2006.

171. **A.J. Chamkha**, A. Al-Mudhaf and I. Pop, "Effect of Heat Generation or Absorption on Thermophoretic Free Convection Boundary Layer From a Vertical Flat Plate Embedded in a Porous Medium." **International Communications in Heat and Mass Transfer**, Volume 33, pp. 1096-1102, 2006.
172. R.S.R. Gorla, H.S. Takhar and **A.J. Chamkha**, "Mixed Convection Boundary Layer Flow of a Micropolar Fluid Along a Vertical Cylinder." **International Journal of Fluid Mechanics Research**, Volume 33, pp. 211-229, 2006.
173. J.C. Umavathi, **A.J. Chamkha**, Abdul Mateen and A. Al-Mudhaf, "Oscillatory Flow and Heat Transfer in a Horizontal Composite Porous Medium Channel." **International Journal of Heat & Technology**, Volume 25, pp. 75-86, 2006.
174. R.S.R. Gorla, **A.J. Chamkha** and H.S. Takhar, "Mixed Convection in Non-Newtonian Fluids along a Vertical Plate in Porous Media with Constant Surface Heat Flux." **Thermal Energy and Power Engineering**, Volume 2, pp. 66-71, 2013.
175. Y. Lok, I. Pop and **A.J. Chamkha**, "Non-Orthogonal Stagnation-Point Flow of a Micropolar Fluid." **International Journal of Engineering Science**, Volume 45, pp. 173-184, 2007.
176. B. Pullepu, K. Ekambavanan and **A.J. Chamkha**, "Unsteady Laminar Natural Convection Flow Past an Isothermal Vertical Cone", **International Journal of Heat & Technology**, Volume 25, No. 2, pp. 17-27, 2007.
177. A. Ben-Nakhi and **A.J. Chamkha** "Conjugate Natural Convection Around a Finned Pipe in a Square Enclosure with Internal Heat Generation." **International Journal of Heat and Mass Transfer**, Volume 50, pp. 2260-2271, 2007.
178. **A.J. Chamkha** and J. Al-Humoud, "Mixed Convection Heat and Mass Transfer of Non-Newtonian Fluids from a Permeable Surface Embedded in a Porous Medium." **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 17, pp. 195-212, 2007.
179. A. Ben-Nakhi and **A.J. Chamkha** "Conjugate Natural Convection in a Square Enclosure with Inclined Thin Fin of Arbitrary Length." **International Journal of Thermal Sciences**, Volume 46, pp. 467-478, 2007.
180. J. Al-Humoud and **A.J. Chamkha**, "Reactive Contaminant Transport with Space-Dependent Dispersion and Time-Dependent Concentration Source." **Journal of Porous Media**, Volume 10, pp. 377-390, 2007.
181. **A.J. Chamkha**, "Numerical Modeling of Contaminant Transport with Spatially-Dependent Dispersion and Non-Linear Chemical Reaction." **Nonlinear Analysis: Modelling and Control**, Volume 12, pp. 329-343, 2007.
182. B. Pullepu, K. Ekambavanan and **A.J. Chamkha**, "Unsteady Laminar Natural Convection from a Non-Isothermal Vertical Cone." **Nonlinear Analysis: Modelling and Control**, Volume 12, pp. 525-540, 2007.
183. **A.J. Chamkha** and A. Ben-Nakhi, "Coupled Heat and Mass Transfer in Mixed Convective Flow of a Non-Newtonian Fluid over a Permeable Surface Embedded in a Non-Darcian Porous Medium." **International Journal of Heat & Technology**, Volume 25, pp. 33-41, 2007.

184. E. Magyari and **A. J. Chamkha**, "Exact Analytical Solutions for Thermosolutal Marangoni Convection in the Presence of Heat and Mass Generation or Consumption." **Heat and Mass Transfer**, Volume 43, pp. 965-974, 2007.
185. M.S. Shawaqfah, R.A. Damseh, **A.J. Chamkha**, H.M. Duwairi and M.H. Zgoul, "Transient Forced Convection of Blasius Flow of "SECOND-GRADE" Visco-Elastic Fluid." **International Journal of Heat & Technology**, Volume 25, pp. 145-149, 2007.
186. **A. J. Chamkha**, "Heat and Mass Transfer for a Non-Newtonian Fluid Flow along a Surface Embedded in a Porous Medium with Uniform Wall Heat and Mass Fluxes and Heat Generation or Absorption." **International Journal of Energy**, Volume 1, pp. 97-104, 2007.
187. **A.J. Chamkha** and A. Al-Mudhaf, "Double-Diffusive Natural Convection in Inclined Porous Cavities with Various Aspect Ratios and Temperature-Dependent Heat Source or Sink." **Heat and Mass Transfer**, Volume 44, pp. 679-693, 2008.
188. B. Pullepu, K. Ekambavanan and **A.J. Chamkha**, "Unsteady Laminar Free Convection from a Vertical Cone with Uniform Surface Heat Flux." **Nonlinear Analysis: Modelling and Control**, Volume 13, pp. 47-60, 2008.
189. E. Magyari and **A. J. Chamkha**, "Exact Analytical Results for the Thermosolutal MHD Marangoni Boundary Layers." **International Journal of Thermal Sciences**, Volume 47, pp. 848-857, 2008.
190. A. Al-Mudhaf, **A.J. Chamkha** and J. Al-Humoud, "Modeling of Filtration Processes with Scale-Dependent Diffusion and Superficial Velocity." **Filtration**, Volume 8, pp. 164-172, 2008.
191. R.A. Damseh, A.S. Shatnawi, **A.J. Chamkha** and, H.M. Duwairi, "Transient Mixed Convection Flow of a Second-Grade Visco-elastic Fluid Over a Vertical Surface." **Nonlinear Analysis: Modelling and Control**, Volume 13, pp. 169-179, 2008.
192. **A.J. Chamkha** and A. Ben-Nakhi "MHD Mixed Convection-Radiation Interaction Along a Permeable Surface Immersed in a Porous Medium in the Presence of Soret and Dufour's Effects." **Heat and Mass Transfer**, Volume 44, pp. 845-856, 2008.
193. J.C. Umavathi, J.P. Kumar, **A.J. Chamkha**, "Flow and Heat Transfer of a Micropolar Fluid Sandwiched Between Viscous Fluid Layers." **Canadian Journal of Physics**, Volume 86, pp. 961-973, 2008.
194. J.C. Umavathi, **A.J. Chamkha**, M.H. Manjula and A. Al-Mudhaf, "Radiative Heat Transfer of a Two-Fluid Flow in a Vertical Porous Stratum." **International Journal of Fluid Mechanics Research**, Volume 35, pp. 510-543, 2008.
195. J.C. Umavathi, **A.J. Chamkha**, Abdul Mateen, and J.P. Kumar "Unsteady Magnetohydrodynamic Two Fluid Flow and Heat Transfer in a Horizontal Channel." **International Journal of Heat & Technology**, Volume 26, pp. 121-133, 2008.
196. M.-E.M. Khedr, **A. J. Chamkha** and M. Bayomi, "MHD Flow of a Micropolar Fluid past a Stretched Permeable Surface with Heat Generation or Absorption." **Nonlinear Analysis: Modelling and Control**, Volume 14, pp. 27-40, 2009.
197. R.A. Damseh, M.Q. Al-Odat, **A.J. Chamkha**, and B.A. Shannak "Combined Effect of Heat Generation or Absorption and First-Order Chemical Reaction on

- Micropolar Fluid Flows over a Uniformly Stretched Permeable Surface.” **International Journal of Thermal Sciences**, Volume 48, pp. 1658-1663, 2009.
198. R.A. Damseh and **A.J. Chamkha**, “Unsteady Buoyancy Driven Saline Water over a Vertical Flat Plate”. **Progress in Computational Fluid Dynamics**, Volume 9, pp. 507-512, 2009.
199. R.S.R. Gorla, **A.J. Chamkha** and A. Hossain, “Mixed Convection Flow of Non-Newtonian Fluid From a Slotted Vertical Surface with Uniform Surface Heat Flux,” **Canadian Journal of Chemical Engineering**, Volume 87, pp. 534-540, 2009.
200. N. Ben Cheikh, **A. J. Chamkha**, and B. Ben Beya “Effect of Inclination on Heat Transfer and Fluid Flow in a Finned Enclosure Filled with a Dielectric Liquid.” **Numerical Heat Transfer Part A**, Volume 56, pp. 286-300, 2009.
201. J.C. Umavathi, **A.J. Chamkha**, Abdul Mateen and A. Al-Mudhaf, “Unsteady Oscillatory Flow and Heat Transfer in a Horizontal Composite Porous Medium Channel.” **Nonlinear Analysis: Modelling and Control**, Volume 14, pp. 397-415, 2009.
202. **A. J. Chamkha** and M. Al-Subaie “Hydromagnetic Buoyancy-Induced Flow of a Particulate Suspension Through a Vertical Pipe with Heat Generation or Absorption Effects.” **Turkish Journal of Engineering & Environmental Sciences**, Volume 33, pp. 127-134, 2009.
203. B. Pullepu and **A.J. Chamkha**, “Transient Laminar MHD Free Convective Flow Past a Vertical Cone with Non-uniform Surface Heat Flux.” **Nonlinear Analysis: Modelling and Control**, Volume 14, pp. 489-503, 2009.
204. P.M. Patil, S. Roy and **A.J. Chamkha**, “Double Diffusive Mixed Convection Flow over a Moving Vertical Plate in the Presence of Internal Heat Generation and Chemical Reaction.” **Turkish Journal of Engineering & Environmental Sciences**, Volume 33, pp. 193-206, 2009.
205. **A.J. Chamkha**, M. A. Mansour and S. E. Ahmad, “Free Convective Flow of a Micropolar Fluid along an Elliptic Cylinder in Porous Media Using the Thermal Non-Equilibrium Model.” **International Journal of Industrial Mathematics**, Volume 1, pp. 291-305, 2009.
206. J.C. Umavathi, J.P. Kumar and **A. J. Chamkha**, “Convective Flow of Two Immiscible Viscous and Couple Stress Permeable Fluids through a Vertical Channel.” **Turkish Journal of Engineering & Environmental Sciences**, Volume 33, pp. 221-243, 2009.
207. M. Modather, A. M. Rashad and **A. J. Chamkha**, “An Analytical Study on MHD Heat and Mass Transfer Oscillatory Flow of Micropolar Fluid over a Vertical Permeable Plate in a Porous Medium.” **Turkish Journal of Engineering & Environmental Sciences**, Volume 33, pp. 245-258, 2009.
208. G. Singh, P.R. Sharma and **A.J. Chamkha**, “Effect of Thermally Stratified Ambient Fluid on MHD Convective Flow along a Moving Non-isothermal Vertical Plate.” **International Journal of the Physical Sciences**, Volume 5, pp. 208-215, 2010.

209. **A.J. Chamkha**, M.M. Abd El-Aziz, and S.E. Ahmed, “Effects of Thermal Stratification on Flow and Heat Transfer Due to a Stretching Cylinder with Uniform Suction/Injection.” **International Journal of Energy & Technology**, Volume 2, Paper 4, pp. 1-7, 2010.
210. **A.J. Chamkha**, M.A. Mansour, and S.E. Ahmed, “Unsteady Mixed Convection of a Micropolar Fluid in a Lid-Driven Cavity: Effects of Different Micro-Gyration Boundary Conditions.” **International Journal of Energy & Technology**, Volume 2, Paper 6, pp. 1-10, 2010.
211. **A.J. Chamkha**, A. M. Aly and M. A. Mansour, “Similarity Solution for Unsteady Heat and Mass Transfer from a Stretching Surface Embedded in a Porous Medium with Suction/Injection and Chemical Reaction Effects.” **Chemical Engineering Communications**, Volume 197, pp. 846-858, 2010.
212. M. Sathiyamoorthy and **A. J. Chamkha**, “Effect of Magnetic Field on Natural Convection Flow in a Square Cavity for Linearly Heated Side Wall(s).” **International Journal of Thermal Sciences**, Volume 49, pp. 1856-1865, 2010.
213. E. Magyari and **A.J. Chamkha**, “Combined Effect of Heat Generation or Absorption and First-Order Chemical Reaction on Micropolar Fluid Flows over a Uniformly Stretched Permeable Surface: The Full Analytical Solution.” **International Journal of Thermal Sciences**, Volume 49, pp. 1821-1828, 2010.
214. A.M. Aly and **A.J. Chamkha** “Non-Similar Solutions for Heat and Mass Transfer from a Surface Embedded in a Porous Medium for Two Prescribed Thermal and Solutal Boundary Conditions.” **International Journal of Chemical Reactor Engineering**, Volume 8, Article A56, pp. 1-24, 2010.
215. P.M. Patil and **A.J. Chamkha**, “Unsteady Combined Heat and Mass Transfer from a Moving Vertical Plate in a Parallel Free Stream.” **International Journal of Energy & Technology**, Volume 2, Paper 9, pp. 1-13, 2010.
216. A. Mahdy, **A. J. Chamkha** and Y. Baba, “Double-Diffusive Convection with Variable Viscosity from a Vertical Truncated Cone in Porous Media in the Presence of Magnetic Field and Radiation Effects.” **Computers & Mathematics with Applications**, Volume 59, pp. 3867-3878, 2010.
217. **A. J. Chamkha** and S. Al-Rashidi, “Analytical Solutions for Hydromagnetic Natural Convection Flow of a Particulate Suspension through Isoflux-Isothermal Channels in the Presence of a Heat Source or Sink.” **Energy Conversion and Management**, Volume 59, pp. 851-858, 2010.
218. H.M. Duwairi, R.A. Damseh, **A.J. Chamkha**, and M.S. Abdel-Jaber, “Transient Convection Flow of a Viscoelastic Fluid Over a Vertical Surface.” **Applied Mathematics and Mechanics**, Volume 31, pp. 557-564, 2010.
219. **A.J. Chamkha**, M. A. Mansour and S. E. Ahmad, “Double-Diffusive Natural Convection in Inclined Finned Triangular Porous Enclosures in the Presence of Heat Generation/Absorption Effects.” **Heat and Mass Transfer**, Volume 46, pp. 757-768, 2010.
220. S.M. EL-Kabeir, **A.J. Chamkha** and A. M. Rashad, “Heat and Mass Transfer by MHD Stagnation-Point Flow of a Power-Law Fluid towards a Stretching Surface with Radiation, Chemical Reaction and Soret and Dufour Effects.” **International**

- Journal of Chemical Reactor Engineering**, Volume 8, Article A132, pp. 1-18, 2010.
221. G. Singh, P.R. Sharma and **A.J. Chamkha**, “Effect of Volumetric Heat Generation/Absorption on Mixed Convection Stagnation Point Flow on an Isothermal Vertical Plate in Porous Media.” **International Journal of Industrial Mathematics**, Volume 2, pp. 59-71, 2010.
  222. **A.J. Chamkha**, “Heat and Mass Transfer of a Non-Newtonian Fluid Flow over a Permeable Wedge in Porous Media with Variable Wall Temperature and Concentration and Heat Source or Sink.” **WSEAS Transactions on Heat and Mass Transfer**, Volume 5, pp. 11-20, 2010.
  223. M. A. Mansour, **A.J. Chamkha**, R.A. Mohamed, M.M. Abd El-Aziz, and S.E. Ahmed, “MHD Natural Convection in an Inclined Cavity Filled with a Fluid Saturated Porous Medium with Heat Source in the Solid Phase.” **Nonlinear Analysis: Modelling and Control**, Volume 15, pp. 55-70, 2010.
  224. P.M. Patil, S. Roy and **A.J. Chamkha**, “Mixed Convection Flow over a Vertical Power-Law Stretching Sheet.” **International Journal of Numerical Methods for Heat & Fluid Flow**, Volume 20, pp. 445-458, 2010.
  225. **A.J. Chamkha**, S. Ahmed and A. Aloraier “Melting and Radiation Effects on Mixed Convection from a Vertical Surface Embedded in a Non-Newtonian Fluid Saturated Non-Darcy Porous Medium for Aiding and Opposing External Flows.” **International Journal of the Physical Sciences**, Volume 5, pp. 1212-1224, 2010.
  226. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and A. Basawaraj, “Exact Solutions of Unsteady Solute Dispersion of Magnetohydrodynamic and Viscous Fluids Between Two Parallel Plates.” **International Journal of Energy & Technology**, Volume 2, Paper 17, pp. 1-8, 2010.
  227. S.M.M. EL-Kabeir, **A. J. Chamkha** and A. M. Rashad and H. Al-Mudhaf, “Soret and Dufour Effects on Heat and Mass Transfer by Non-Darcy Natural Convection from a Permeable Sphere Embedded in a High Porosity Medium with Chemically-Reactive Species.” **International Journal of Energy & Technology**, Volume 2, Paper 18, pp. 1-10, 2010.
  228. **A.J. Chamkha**, A. M. Aly and M. A. Mansour, “Unsteady Natural Convective Power-Law Fluid Flow Past a Vertical Plate Embedded in a Non-Darcian Porous Medium in the Presence of a Homogeneous Chemical Reaction.” **Nonlinear Analysis: Modelling and Control**, Volume 15, pp. 139-154, 2010.
  229. A. Mahdy and **A. J. Chamkha** “Chemical Reaction and Viscous Dissipation Effects on Darcy-Forchheimer Mixed Convection in a Fluid Saturated Porous Media.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 20, pp. 924-940, 2010.
  230. E. Abu-Nada and **A.J. Chamkha**, “Effect of Nanofluid Variable Properties on Natural Convection in Enclosures Filled with an CuO-EG-Water Nanofluid.” **International Journal of Thermal Sciences**, Volume 49, pp. 2339-2352, 2010.
  231. J. P. Kumar, J.C. Umavathi, **A. J. Chamkha** and I. Pop, “Fully Developed Free Convective Flow of Micropolar and Viscous fluids in a Vertical Channel.” **Applied Mathematical Modelling**, Volume 35, pp. 1175-1186, 2010.

232. E. Abu-Nada and **A.J. Chamkha**, “Mixed Convection Flow in a Lid-Driven Inclined Square Enclosure Filled with a Nanofluid.” **European Journal of Mechanics - B/Fluids**, Volume 29, pp. 472-482, 2010.
233. Sahin Ahmed and **A.J. Chamkha**, “Effects of Chemical Reaction, Heat and Mass Transfer and Radiation on MHD Flow along a Vertical Porous Wall in the Presence of Induced Magnetic Field.” **International Journal of Industrial Mathematics**, Volume 2, pp. 245-261, 2010.
234. **A.J. Chamkha** and S.E. Ahmed, “Thermal Non-Equilibrium Modeling of Natural Convection Heat Transfer on a Vertical Plate in a Saturated Porous Medium with Inertial Effects.” **International Journal of Heat & Technology**, Volume 28, pp. 103-108, 2010.
235. J.C. Umavathi, **A. J. Chamkha** and K.S.R. Sridhar, “Generalized Plain Couette Flow and Heat Transfer in a Composite Channel.” **Transport in Porous Media**, Volume 85, pp. 157-169, 2010.
236. **A.J. Chamkha**, M. A. Mansour and A. M. Aly, “Unsteady MHD Free Convective Heat and Mass Transfer from a Vertical Porous Plate with Hall Current, Thermal Radiation and Chemical Reaction Effects.” **International Journal for Numerical Methods in Fluids**, Volume 65, pp. 432-447, 2011.
237. **A.J. Chamkha** and A.M. Aly, “Heat and Mass Transfer in Stagnation-Point Flow of a Polar Fluid towards a Stretching Surface in Porous Media in the Presence of Soret, Dufour and Chemical Reaction Effects.” **Chemical Engineering Communications**, Volume 198, pp. 214-234, 2011.
238. **A.J. Chamkha**, S.H. Hussain and Q.R. Abd-Amer, “Mixed Convection Heat Transfer Flow of Air Inside a Square Vented Cavity with a Heated Horizontal Square Cylinder.” **Numerical Heat Transfer Part A**, Volume 59, pp. 58-79, 2011.
239. **A.J. Chamkha** and A.M. Aly, “MHD Free Convection Flow of a Nanofluid past a Vertical Plate in the Presence of Heat Generation or Absorption Effects.” **Chemical Engineering Communications**, Volume 198, pp. 425-441, 2011.
240. H.F. Oztop, E. Abu-Nada, Y. Varol and **A.J. Chamkha**, “Natural Convection in Wavy Enclosures with Volumetric Heat Sources.” **International Journal of Thermal Sciences**, Volume 50, pp. 502-514, 2011.
241. A. M. Aly, M. A. Mansour and **A.J. Chamkha**, “Effects of Soret and Dufour Numbers on Free Convection over Isothermal and Adiabatic Stretching Surfaces Embedded in Porous Media.” **Journal of Porous Media**, Volume 14, pp. 67-72, 2011.
242. **A.J. Chamkha**, R. A. Mohamed and S. E. Ahmad, “Unsteady MHD Natural Convection from a Heated Vertical Porous Plate in a Micropolar Fluid with Joule Heating, Chemical Reaction and Radiation effects.” **Meccanica**, Volume 46, pp. 399-411, 2011.
243. R.S.R. Gorla and **A.J. Chamkha**, “Natural Convective Boundary Layer Flow over a Horizontal Plate Embedded in a Porous Medium Saturated with a Nanofluid.” **Journal of Modern Physics**, Volume 2, pp. 62-71, 2011.



244. R.S.R. Gorla, **A.J. Chamkha** and A. Rashad, "Mixed Convective Boundary Layer Flow over a Vertical Wedge Embedded in a Porous Medium Saturated with a Nanofluid: Natural Convection Dominated Regime." **Nanoscale Research Letters**, Volume 6 (207), pp. 1-9, 2011.
245. R.S.R. Gorla and **A.J. Chamkha**, "Natural Convective Boundary Layer Flow over a Non-isothermal Vertical Plate Embedded in a Porous Medium Saturated with a Nanofluid." **Nanoscale and Microscale Thermophysical Engineering**, Volume 15, pp. 81-94, 2011.
246. A. M. Rashad, **A. J. Chamkha** and S.M.M. EL-Kabeir "Effect of Chemical Reaction on Heat and Mass Transfer by Mixed Convection Flow About a Sphere in Saturated Porous Media." **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 21, pp. 418-433, 2011.
247. **A.J. Chamkha**, R.S.R. Gorla and K., Ghodeswar, "Non-Similar Solution for Natural Convective Boundary Layer Flow over a Sphere Embedded in a Porous Medium Saturated with a Nanofluid." **Transport in Porous Media**, Volume 86, pp. 13-22, 2011.
248. **A.J. Chamkha** and S.E. Ahmed, "Similarity Solution for Unsteady MHD Flow near a Stagnation Point of a Three-Dimensional Porous Body with Heat and Mass Transfer, Heat Generation/Absorption and Chemical Reaction." **Journal of Applied Fluid Mechanics**, Volume 4, pp. 87-94, 2011.
249. **A. J. Chamkha**, M. F. El-Amin and A. M. Aly, "Unsteady Double-Diffusive Natural Convective MHD Flow along a Vertical Cylinder in the Presence of Chemical Reaction, Thermal Radiation and Soret and Dufour Effects." **Journal of Naval Architecture and Marine Engineering**, Volume 8, pp. 25-36, 2011.
250. M. Rashidi, **A.J. Chamkha** and M. Keimanesh, "Application of Multi-Step Differential Transform Method on Flow of a Second-Grade Fluid Over a Stretching or Shrinking Sheet." **American Journal of Computational Mathematics**, Volume 6, pp. 119-128, 2011.
251. A. M. Rashad, M. Modather and **A. J. Chamkha**, "MHD Free Convective Heat and Mass Transfer of a Chemically-Reacting Fluid from Radiate Stretching Surface Embedded in a Saturated Porous Medium." **International Journal of Chemical Reactor Engineering**, Volume 9, Article A66, 2011.
252. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and H. Prema, "Free Convection in a Vertical Double Passage Wavy Channel Filled with a Walters Fluid (Model B')." **International Journal of Energy & Technology**, Volume 3, Paper 2, pp. 1-13, 2011.
253. J.C. Umavathi and **A.J. Chamkha**, "Fully Developed Mixed Convection in a Vertical Channel in the Presence of Heat Source or Sink." **International Journal of Energy & Technology**, Volume 3, Paper 24, pp. 1-9, 2011.
254. **A.J. Chamkha** and S.E. Ahmed, "Unsteady MHD Stagnation-Point Flow with Heat and Mass Transfer for a Three Dimensional Porous Body in the Presence of Heat Generation/Absorption and Chemical Reaction." **Progress in Computational Fluid Dynamics**, Volume 11, pp. 388-396, 2011.

255. **A.J. Chamkha**, A. Al-Mudhaf and E. Al-Meshaie, "Thermo-Solutal Convection in an Inclined Porous Cavity with Various Aspect Ratios Under Mixed Thermal and Species Boundary conditions." **Heat Transfer-Asian Research**, Volume 40, pp. 693-720, 2011.
256. **A. J. Chamkha**, S.M.M. EL-Kabeir and A. M. Rashad, "Heat and Mass Transfer by Non-Darcy Free Convection from a Vertical Cylinder Embedded in Porous Media with a Temperature-Dependent Viscosity." **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 21, pp.847-863, 2011.
257. M. Keimanesh, M. Rashidi, **A.J. Chamkha** and R. Jafari, "Study of a Third-Grade Non-Newtonian Fluid Flow Between Two Parallel Plates Using the Multi-Step Differential Transform Method." **Computers and Mathematics with Applications**, Volume 62, pp. 2871-2891, 2011.
258. **A.J. Chamkha**, A.M. Rashad, and E. Al-Meshaie, "Melting Effect on Unsteady Hydromagnetic Flow of a Nanofluid Past a Stretching Sheet." **International Journal of Chemical Reactor Engineering**, Volume 9:A113, 2011.
259. **A.J. Chamkha**, A.M. Aly, H. Al-Mudhaf "Laminar MHD Mixed Convection Flow of a Nanofluid along a Stretching Permeable Surface in the Presence of Heat Generation or Absorption Effects." **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 51-70, 2011.
260. **A. J. Chamkha**, "Heat and Mass Transfer from MHD Flow over a Moving Permeable Cylinder with Heat Generation or Absorption and Chemical Reaction." **Communications in Numerical Analysis**, Volume 2011, Paper cna-00109, pp. 1-20, 2011.
261. R.S.R. Gorla, **A.J. Chamkha** and A. Aloraier, "Melting Heat Transfer in a Nanofluid Flow Past A Permeable Continuous Moving Surface." **Journal of Naval Architecture and Marine Engineering**, Volume 2, pp. 83-92, 2011.
262. **A. J. Chamkha** and M. Al-Subaie "Analytical Solutions for Transient Natural Convection Flow of a Particulate Suspension Through a Circular Pipe." **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 103-119, 2011.
263. **A.J. Chamkha**, R.S.R. Gorla and K. Ghodeswar, "Non-Similar Solution for Natural Convective Boundary Layer Flow over a Sphere Embedded in a Non-Darcy Porous Medium Saturated with a Nanofluid." **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 135-158, 2011.
264. R.S.R. Gorla, Md. A. Hossain and **A.J. Chamkha**, "Combined Convection in Micropolar Fluids from a Vertical Surface with Slip." **Journal of Energy, Heat and Mass Transfer**, Volume 33, pp. 1-26, 2011.
265. P.R. Sharma, G. Singh and **A.J. Chamkha**, "Unsteady Heat Transfer in Steady Stagnation Point Flow along Stretching Sheet in the Presence of Free Stream." **International Journal of Heat & Technology**, Volume 29, pp. 39-44, 2011.
266. R.S.R. Gorla and **A.J. Chamkha**, "Natural Convective Boundary Layer Flow over a Horizontal Plate Embedded in a Porous Medium Saturated with a Non-Newtonian

- Nanofluid.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 211- 227, 2011.
267. M. A. Mansour, **A.J. Chamkha** and S.E. Ahmed, “Mixed Convection Flow of a Nanofluid in a Square Lid-Driven Cavity with a Localized Heat Source at the Bottom Wall.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Voume 2, pp. 229-250, 2011.
268. P.M. Patil, S. Roy, **A.J. Chamkha** and P.S. Kulkarni “Unsteady Mixed Convection Flow from a Moving Vertical Slender Cylinder in the Presence of Viscous Dissipation.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 281-305, 2011.
269. **A.J. Chamkha**, A.M. Rashad, M.A. EL-Hakim and M.M. Abdou, “Non-Similar Solutions for Mixed Convective Boundary Layer Flow of a Non-Newtonian Fluid over a Wedge Embedded in a Porous Medium Filled with a Nanofluid.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 2, pp. 323-341, 2011.
270. **A.J. Chamkha** and S.E. Ahmed “Unsteady MHD Heat and Mass Transfer by Mixed Convection Flow in the Forward Stagnation Region of a Rotating Sphere at Different Wall Conditions.” **Chemical Engineering Communications**, Volume 199, pp. 122-141, 2012.
271. B.J. Gireesha, **A.J. Chamkha**, C.S. Vishalakshi and C.S. Bagewadi, “Three-Dimensional Couette Flow of a Dusty Fluid with Heat Transfer.” **Applied Mathematical Modeling**, Volume 36, pp. 683-701, 2012.
272. **A. J. Chamkha**, S. Abbasbandy, A.M. Rashad and K. Vajravelu, “Radiation Effects on Mixed Convection over a Wedge Embedded in a Porous Medium Filled with a Nanofluid.” **Transport in Porous Media**, Volume 91, pp. 261-279, 2012.
273. P.M. Patil, **A.J. Chamkha** and S. Roy, “Effects of Chemical Reaction on Mixed Convection Flow of a Polar Fluid through a Porous Medium in the Presence of Internal Heat Generation.” **Meccanica journal**, Volume 47, pp. 483-499, 2012.
274. J.C. Umavathi, **A. J. Chamkha**, and S. Veershetty, “Fully Developed Mixed Convection of a Micropolar Fluid in a Vertical Channel with Boundary Conditions of Third Kind.” **International Journal of Energy & Technology**, Volume 4, Paper 3, pp. 1-9, 2012.
275. B. Pullepu, **A.J. Chamkha**, I. Pop, “Unsteady Laminar Free Convection Flow Past a Non-Isothermal Vertical Cone in the Presence of a Magnetic Field.” **Chemical Engineering Communications**, Volume 199, pp. 354-367, 2012.
276. R.S.R. Gorla, **A.J. Chamkha**, W.A. Khan and P.V. Murthy “Second Law Analysis for Combined Convection in Non-Newtonian Fluids over a Vertical Wedge Embedded in a Porous Medium.” **Journal of Porous Media**, Volume 15, pp. 187-196, 2012.
277. R. Nasrin, S. Parvin, M.A. Alim and **A. J. Chamkha**, “Non-Darcy Forced Convection through a Wavy Porous Channel Using CuO Nanofluid.” **International Journal of Energy & Technology**, Volume 4, Paper 8, pp. 1-8, 2012.

278. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Prandtl Number Variation on Transient Forced Convection Flow in a Fluid Valve Using Nanofluid.” **International Journal of Engineering Science and Technology**, Volume 4 (2), pp. 1-16, 2012.
279. **A.J. Chamkha**, A.M. Rashad and H. Al-Mudhaf, “Heat and Mass Transfer from Truncated Cones with Variable Wall Temperature and Concentration in the Presence of Chemical Reaction Effects.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 22, pp. 357-376, 2012.
280. M. Sathiyamoorthy and **A. J. Chamkha**, “Natural Convection Flow under Magnetic Field in a Square Cavity for Uniformly (or) Linearly Heated Adjacent Walls.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 22, pp. 677-698, 2012.
281. R. Gorla, **A.J. Chamkha** and E. Al-Meshaie, “Melting Heat Transfer in a Nanofluid Boundary Layer on a Stretching Circular Cylinder.” **Journal of Naval Architecture and Marine Engineering**, Volume 9, pp. 1-10, 2012.
282. T. Basak, S. Roy, and **A. J. Chamkha**, “A Peclet Number based Analysis of Mixed Convection for Lid-Driven Porous Square Cavities with Various Heating of Bottom Wall.” **International Communications in Heat and Mass Transfer**, Volume 39, pp. 657-664, 2012.
283. S. Parvin, R. Nasrin, M. A. Alim, N.F. Hossain and **A. J. Chamkha**, “Thermal Conductivity Variation on Natural Convection Flow of Water-Alumina Nanofluid in an Annulus.” **International Journal of Heat and Mass Transfer**, Volume 55, pp. 5268-5274, 2012.
284. T. Basak and **A. J. Chamkha**, “Heatline Analysis on Natural Convection for Nanofluids Confined within Square Cavities with Various Thermal Boundary Conditions.” **International Journal of Heat and Mass Transfer**, Volume 55, pp. 5526-5543, 2012.
285. G. Singh, P.R. Sharma and **A.J. Chamkha**, “Mass Transfer with Chemical Reaction in MHD Mixed Convection Flow along a Vertical Stretching Sheet.” **International Journal of Energy & Technology**, Volume 4, Paper 20, pp. 1-12, 2012.
286. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Combined Convection Flow in Triangular Wavy Chamber Filled with Water-CuO Nanofluid: Effect of Viscosity Models.” **International Communications in Heat and Mass Transfer**, Volume 39, pp. 1226-1236, 2012.
287. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Effect of Viscosity Variation on Natural Convection Flow of Water-Alumina Nanofluid in an Annulus with Internal Heat Generation.” **Heat Transfer-Asian Research**, Volume 41, pp. 536-552, 2012.
288. **A.J. Chamkha**, S.H. Hussain, F.H. Ali, and A.A. Shaker, “Conduction-Combined Forced and Natural Convection in a Lid-Driven Parallelogram-Shaped Enclosure Divided by a Solid Partition.” **Progress in Computational Fluid Dynamics**, Volume 12, pp. 309-321, 2012.
289. **A.J. Chamkha**, M. Modather, S.M. EL-Kabeir and A.M. Rashad “Radiative Effects on Boundary-Layer Flow of a Nanofluid on a Continuously Moving or

- Fixed Permeable Surface.” **Recent Patents on Mechanical Engineering**, Volume 5, pp. 176-183, 2012.
290. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and A. Basawaraj, “Solute Dispersion Between Two Parallel Plates Containing Porous and Fluid Layers.” **Journal of Porous Media**, Volume 15, pp. 1031-1047, 2012.
291. M.M. Abdou and **A.J. Chamkha**, “Double Diffusion Mixed Convection in an Axisymmetric Stagnation Flow of a Nanofluid over a Vertical Cylinder.” **Computational Thermal Sciences**, Volume 4, pp. 201-212, 2012.
292. P.R. Sharma, G. Singh and **A.J. Chamkha**, “Steady Mixed Convection Flow of Water at 4° C along a Non-Isothermal Vertical Moving Plate with Transverse Magnetic Field.” **International Journal of Industrial Mathematics**, Volume 4, pp. 171-186, 2012.
293. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Buoyancy-Driven Heat Transfer of Water–Al<sub>2</sub>O<sub>3</sub> Nanofluid in a Closed Chamber: Effects of Solid Volume Fraction, Prandtl Number and Aspect Ratio.” **International Journal of Heat and Mass Transfer**, Volume 55, pp. 7355-7565, 2012.
294. **A.J. Chamkha**, A. M. Aly and M. A. Mansour, “Effects of Chemical Reaction and Pressure Work on Free Convection over a Stretching Cone Embedded in a Porous Medium.” **International Journal of Industrial Mathematics**, Volume 4, pp. 319-333, 2012.
295. R. Nasrin, S. Parvin, M.A. Alim and **A. J. Chamkha**, “Transient Analysis on Forced Convection Phenomena in a Fluid Valve Using Nanofluid.” **Numerical Heat Transfer Part A**, Volume 62, pp. 589-604, 2012.
296. **A.J. Chamkha** and E. Abu-Nada, “Mixed Convection Flow in Single- and Double-Lid Driven Square Cavities Filled with Water–Al<sub>2</sub>O<sub>3</sub> Nanofluid: Effect of Viscosity Models.” **European Journal of Mechanics - B/Fluids**, Volume 36, pp. 82-96, 2012.
297. **A.J. Chamkha**, M.M. Abd El-Aziz, and S.E. Ahmed, “Hydromagnetic Double-Diffusive Convection in a Rectangular Enclosure with Linearly Heated and Concentrated Wall(s) in the Presence of Heat Generation/Absorption Effects.” **Progress in Computational Fluid Dynamics**, Volume 12, pp. 400-414, 2012.
298. **A.J. Chamkha** and A. M. Rashad, “Natural Convection from a Vertical Permeable Cone in a Nanofluid Saturated Porous Media for Uniform Heat and Nanoparticles Volume Fraction Fluxes.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 22, pp. 1073-1085, 2012.
299. **A. J. Chamkha** and A. M. Aly “Heat and Mass Transfer by Free Convective Flow of a Polar Fluid along a Sphere Embedded in a Porous Medium.” **Journal of Energy, Heat and Mass Transfer**, Volume 34, pp. 19-47, 2012.
300. **A. J. Chamkha**, S. Abbasbandy, A.M. Rashad and K. Vajravelu, “Radiation Effects on Mixed Convection about a Cone Embedded in a Porous Medium Filled with a Nanofluid.” **Meccanica**, Volume 48, pp. 275-285, 2013.
301. **A. J. Chamkha**, A. M. Rashad and A. Aly, “Transient Natural Convection Flow of a Nanofluid Over a Vertical Cylinder.” **Meccanica**, Volume 48, pp. 71-81, 2013.

302. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Effects of Physical Parameters on Natural Convection in a Solar Collector Filled with Nanofluid.” **Heat Transfer-Asian Research**, Volume 42, pp. 73-88, 2013.
303. **A. J. Chamkha** and M.A. Ismael, “Conjugate Heat Transfer in a Porous Cavity Heated by Triangular Thick Wall.” **Numerical Heat Transfer, Part A**, Volume 63, pp. 144-158, 2013.
304. S. Noroozi, S.H. Hashemabadi and **A.J. Chamkha**, “Numerical Analysis of Drops Coalescence and Breakage Effects on De-Oiling Hydrocyclone Performance.” **Separation Science and Technology**, Volume 48, pp. 991-1002, 2013.
305. N. Ben Cheikh, **A. J. Chamkha**, B. Ben Beya and T. Lili “Natural Convection of Water-Based Nanofluids in a Square Enclosure with Non-Uniform Heating of the Bottom Wall.” **Journal of Modern Physics**, Volume 4, pp. 147-159, 2013.
306. **A. J. Chamkha**, S.M.M. El-Kabeir and A.M. Rashad, “Coupled Heat and Mass Transfer By MHD Free Convection Flow along a Vertical Plate with Streamwise Temperature and Species Concentration Variations.” **Heat Transfer-Asian Research**, Volume 42, pp. 100-110, 2013.
307. **A. J. Chamkha** and M.A. Ismael, “Conjugate Heat Transfer in a Porous Cavity Filled with Nanofluids and Heated by a Triangular Thick Wall.” **International Journal of Thermal Sciences**, Volume 67, pp. 135-151, 2013.
308. **A.J. Chamkha** and S.M. EL-Kabeir, “Unsteady Heat and Mass Transfer By MHD Mixed Convection Flow Over an Impulsively Stretched Vertical Surface with Chemical Reaction and Soret and Dufour Effects.” **Chemical Engineering Communications**, Volume 200, pp. 1220-1236, 2013.
309. V. Ravikumar, M.C. Raju, G.S. Raju and **A. J. Chamkha**, “MHD Double Diffusive and Chemically Reactive Flow Through Porous Medium Bounded by Two Vertical Plates.” **International Journal of Energy & Technology**, Volume 5, Paper 7, pp. 1-8, 2013.
310. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Effect of Heating Wall Position on Forced Convection Along Two-Sided Open Enclosure with Porous Medium Using Nanofluid.” **International Journal of Energy & Technology**, Volume 5, Paper 9, pp. 1-13, 2013.
311. **A. J. Chamkha** and S. Al-Rashidi, “Solutions for MHD Natural Convection Flow of a Particulate Suspension through a Vertical Channel with Asymmetric Thermal Boundary Conditions.” **Heat Transfer Research**, Volume 44, pp. 215-243, 2013.
312. B.J. Gireesha, **A.J. Chamkha**, S. Manjunatha and C.S. Bagewadi, “Mixed Convective Flow of a Dusty Fluid Over a Vertical Stretching Sheet with Non-Uniform Heat Source/Sink and Radiation.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 23, pp. 598-612, 2013.
313. A.M. Rashad, **A.J. Chamkha** and M.M. Abdou, “Mixed Convection from a Vertical Surface Embedded in a Porous Medium Saturated with a Non-Newtonian Nanofluid.” **Journal of Applied Fluid Mechanics**, Volume 6, pp. 301-309, 2013.

314. S. Ravi, A.K. Singh, R.K. Singh and **A.J. Chamkha**, “Transient Free Convective Flow of a Micropolar Fluid Between Two Vertical Walls.” **International Journal of Industrial Mathematics**, Volume 5, pp. 87-95, 2013.
315. C. RamReddy, P.V. Murthy, **A.J. Chamkha** and A.M. Rashad, “Soret Effect on Mixed Convection Flow in a Nanofluid under Convective Boundary Condition.” **International Journal of Heat and Mass Transfer**, Volume 64, pp. 384-392, 2013.
316. P.M. Patil and **A.J. Chamkha**, “Heat and Mass Transfer from Mixed Convection Flow of Polar Fluid Along a Plate in Porous Media with Chemical Reaction.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 23, pp. 899-926, 2013.
317. V. Rajesh, **A.J. Chamkha**, D. Bhanumathi and S.V.K. Varma, “Radiation and Chemical Reaction Effects on Unsteady MHD Free Convection Flow of a Dissipative Fluid Past an Infinite Vertical Plate with Newtonian Heating.” **Computational Thermal Sciences**, Volume 5, pp. 355-367, 2013.
318. S.M.M. El-Kabeir and **A. J. Chamkha**, “Heat and Mass Transfer by Mixed Convection from a Vertical Slender Cylinder with Chemical Reaction and Soret and Dufour Effects.” **Heat Transfer-Asian Research**, Volume 42, pp. 618-629, 2013.
319. B. Pullepu and **A.J. Chamkha**, “Numerical Solutions of Unsteady Laminar Free Convection from a Vertical Cone with Uniform Surface Heat Flux.” **Journal of Applied Fluid Mechanics**, Volume 6, pp. 357-367, 2013.
320. S. Mukhopadhyay, I. Mondal and **A.J. Chamkha**, “Casson Fluid Flow and Heat Transfer Past a Symmetric Wedge.” **Heat Transfer-Asian Research**, Volume 42, pp. 665-675, 2013.
321. J.C. Umavathi and **A. J. Chamkha**, “Steady Natural Convection Flow in a Vertical Rectangular Duct with Isothermal Wall Boundary Conditions.” **International Journal of Energy & Technology**, Volume 5, Paper 20, pp. 1-10, 2013.
322. G. Revathi, P. Saikrishnan and **A. J. Chamkha**, “Non-Similar Solution for Unsteady Water Boundary Layer Flow Over a Sphere with Non-Uniform Mass Transfer.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 23, pp. 1104-1116, 2013.
323. P.V. Murthy, C. RamReddy, **A.J. Chamkha** and A.M. Rashad, “Magnetic Effect on Thermally Stratified Nanofluid Saturated Non-Darcy Porous Medium under Convective Boundary Condition.” **International Communications in Heat and Mass Transfer**, Volume 47, pp. 41-48, 2013.
324. M.M. Abdou and **A.J. Chamkha**, “Melting Effect on Natural Convection about Axisymmetric Stagnation Point on a Surface in Porous Media with Soret and Dufour Effects and Temperature-Dependent Viscosity.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 4, pp. 49-70, 2013.
325. R. Nasrin, M.A. Alim and **A. J. Chamkha**, “Numerical Simulation of Non-Darcy Forced Convection through a Channel with Non-uniform Heat Flux in an Open

- Cavity Using Nanofluid.” **Numerical Heat Transfer, Part A**, Volume 64, pp. 820-840, 2013.
326. **A. J. Chamkha**, A. M. Rashad and A. Aly, “Non-Darcy Natural Convection of a Nanofluid about a Permeable Vertical Cone Embedded in a Porous Medium.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 4, pp. 99-114, 2013.
327. **A.J. Chamkha**, “MHD Natural Convective Flow of a Particulate Suspension through a Vertical Channel at Asymmetric Thermal Boundary Conditions with Heat Generation or Absorption.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 4, pp. 135-170, 2013.
328. C. RamReddy, P.V. Murthy, **A.J. Chamkha** and A.M. Rashad, “Influence of Viscous Dissipation on Convection in a Non-Darcy Porous Medium Saturated with Nanofluid in the Presence of Magnetic Field.” **Open Transport Phenomena Journal**, Volume 5, pp. 20-29, 2013.
329. G. Singh and **A.J. Chamkha**, “Dual Solutions for Second-Order Slip Flow and Heat Transfer on a Vertical Permeable Shrinking Sheet.” **Ain Shams Engineering Journal**, Volume 4, pp. 911-917, 2013.
330. C. Maatki, L. Kolsi, H.F. Oztop, **A. J. Chamkha**, M. N. Borjini, H. Ben Assia and K. Al-Salem, “Effect of Magnetic Field on 3D Double Diffusive Convection in a Cubic Cavity Filled with a Binary Mixture.” **International Communications in Heat and Mass Transfer**, Volume 49, pp. 86-95, 2013.
331. **A. J. Chamkha**, S.M.M. El-Kabeir and A.M. Rashad, “Coupled Heat and Mass Transfer by MHD Natural Convection of Micropolar Fluid about a Truncated Cone in the Presence of Radiation and Chemical Reaction Effects.” **Journal of Naval Architecture and Marine Engineering**, Volume 10, pp. 139-150, 2013.
332. J.P. Kumar, J.C. Umavathi, and **A.J. Chamkha**, “Steady Solute Dispersion in Composite Porous Medium Between Two Parallel Plates.” **Journal of Porous Media**, Volume 16, pp. 1087-1105, 2013.
333. A.M. Rashad, S. Abbasbandy and **A. J. Chamkha**, “Non-Darcy Natural Convection from a Vertical Cylinder Embedded in a Thermally Stratified and Nanofluid-Saturated Porous Media.” **ASME Journal of Heat Transfer**, Volume 136, 22503-1-9, 2014
334. R.S.R. Gorla and **A.J. Chamkha**, “Free Convection Past a Vertical Plate Embedded in a Porous Medium Saturated with a Non-Newtonian Nanofluid.” **Journal of Nanofluids**, Volume 2, pp. 1-6, 2013.
335. A.M. Rashad, **A. J. Chamkha** and M. Modather, “Mixed Convection Boundary-Layer Flow of a Nanofluid from a Horizontal Circular Cylinder Embedded in a Porous Medium Under Convective Boundary Condition.” **Computers & Fluids**, Volume 86, pp. 380-388, 2013.
336. G.K. Ramesh, **A. J. Chamkha** and B.J. Gireesha, “Magnetohydrodynamic Flow of a Non-Newtonian Nanofluid Over an Impermeable Surface with Heat Generation/Absorption.” **Journal of Nanofluids**, Volume 3, pp. 78-84, 2014.



337. M.C. Raju, T.S. Reddy, **A. J. Chamkha** and S.V. Varma, "Transient MHD Periodic Fluid Flow with Heat and Mass Transfer Through a Saturated Porous Medium in a Planer Channel in the Presence of Chemical Reaction and Radiation." **Walailak Journal of Science and Technology**, Volume 11, pp. , 2014.
338. R. Nasrin, M.A. Alim and **A. J. Chamkha**, "Natural Convection Flow Across a Nanofluid Layer with Temperature-Dependent Thermal Conductivity and Viscosity." **International Journal of Energy & Technology**, Volume 6, Paper 2, pp. 1-9, 2014.
339. N. Al-Juma' and **A.J. Chamkha**, "Soret and Dufour Effects on Heat and Mass Transfer by Free Convective Flow of a Micropolar Fluid about a Sphere Embedded in Porous Media." **International Journal of Energy & Technology**, Volume 6, Paper 8, pp. 1-7, 2014.
340. R. Nasrin, **A. J. Chamkha** and M.A. Alim, "Modeling of Mixed Convective Heat Transfer Utilizing Nanofluid in a Double Lid-Driven Chamber with Internal Heat Generation." **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 36-57, 2014.
341. C. RamReddy, P.V. Murthy, A.M. Rashad and **A.J. Chamkha**, "Numerical Study of Thermally Stratified Nanofluid Flow in a Saturated Non-Darcy Porous Medium." **The European Physical Journal - Plus**, Volume 129, pp. 1-11, 2014.
342. **A. J. Chamkha** and A. M. Rashad, "MHD Forced Convection Flow of a Nanofluid Adjacent to a Non-Isothermal Wedge." **Computational Thermal Sciences**, Volume 6, pp. 27-39, 2014.
343. **A. J. Chamkha** and M.A. Ismael, "Natural Convection in Differentially Heated Partially Porous Layered Cavities Filled with a Nanofluid." **Numerical Heat Transfer, Part A**, Volume 65, pp. 1089-1113, 2014.
344. **A.J. Chamkha**, A.M. Rashad, Ch. RamReddy and P.V. Murthy, "Viscous Dissipation and Magnetic Field Effects in a Non-Darcy Porous Medium Saturated with a Nanofluid under Convective Boundary Condition." **Special Topics & Reviews in Porous Media**, Volume 5, pp. 27-39, 2014.
345. S.M.M. El-Kabeir, **A. J. Chamkha** and A.M. Rashad, "Effect of Thermal Radiation on Non-Darcy Natural Convection from a Vertical Cylinder Embedded in Nanofluid-Saturated Porous Media". **Journal of Porous Media**, Volume 17, pp. 269-278, 2014.
346. A.M. Rashad and **A.J. Chamkha**, "Heat and Mass Transfer by Natural Convection Flow about a Truncated Cone in Porous Media with Soret and Dufour Effects." **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 595-612, 2014.
347. R.S.R. Gorla, **A.J. Chamkha** and K. Ghodeswar, "Natural Convective Boundary Layer Flow over a Vertical Cone Embedded in a Porous Medium Saturated with a Nanofluid." **Journal of Nanofluids**, Volume 3, pp. 65-71, 2014.
348. T. Armaghani, M.J. Maghrebi, **A. J. Chamkha**, and M. Nazari, "Effects of Particle Migration on Nanofluid Forced Convection Heat Transfer in a Local Thermal Non-Equilibrium Porous Channel." **Journal of Nanofluids**, Volume 3, pp. 51-59, 2014.

349. M.A. Ismael, I. Pop and **A. J. Chamkha**, “Mixed Convection in a Lid Driven Square Cavity with Partial Slip.” **International Journal of Thermal Sciences**, Volume 82, pp. 47-61, 2014.
350. V. Rajesh and **A.J. Chamkha**, “Unsteady Convective Flow Past an Exponentially Accelerated Infinite Vertical Porous Plate with Newtonian Heating and Viscous Dissipation.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 1109-1123, 2014.
351. M. Sathiyamoorthy and **A. J. Chamkha**, “Analysis of Natural Convection in a Square Cavity with a Thin Partition for Linearly Heated Side Walls. **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 1057-1072, 2014.
352. Sahin Ahmed, Abdul Batin and **A.J. Chamkha**, “Finite Difference Approach in Porous Media Transport Modeling for Magnetohydrodynamic Unsteady Flow over a Vertical Plate: Darcian Model.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 1204-1223, 2014.
353. G. Revathi, P. Saikrishnan and **A. J. Chamkha**, “Non-Similar Solutions for Unsteady Flow over a Yawed Cylinder with Non-Uniform Mass Transfer Through a Slot.” **Ain Shams Engineering Journal**, Volume 5, pp. 1199-1206, 2014.
354. **A.J. Chamkha**, A.M. Rashad, Ch. RamReddy and P.V. Murthy, “Effect of Suction/Injection on Free Convection along a Vertical Plate in a Nanofluid Saturated Non-Darcy Porous Medium with Internal Heat Generation.” **Indian Journal of Pure and Applied Mathematics**, Volume 45, pp. 321-341, 2014.
355. A.M. Rashad, **A. J. Chamkha** and C. RamReddy, P.V. Murthy, “Influence of Viscous Dissipation on Mixed Convection in a Non-Darcy Porous Medium Saturated with a Nanofluid.” **Heat Transfer-Asian Research**, Volume 43, pp. 397-411, 2014.
356. J.C. Umavathi, **A. J. Chamkha**, and M. Shekar, “Flow and Heat Transfer of Two Micropolar Fluids Separated by a Viscous Fluid Layer.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 5, pp. 23-49, 2014.
357. **A. J. Chamkha**, T.S. Reddy, M.C. Raju, and S.V.K. Varma, “Unsteady MHD Free Convection Flow Past an Exponentially Accelerated Vertical Plate with Mass Transfer, Chemical Reaction and Thermal Radiation.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 5, pp. 57-75, 2014.
358. Salina Aktar, Md. A. Alim and **A.J. Chamkha**, “Conjugate Effects of Heat Generation and Pressure Work on the Coupling of Conduction with Magnetohydrodynamic Free Convection Flow Along a Vertical Flat Plate.” **International Journal of Energy & Technology**, Volume 6, Paper 15, pp. 1-10, 2014.
359. S. Parvin and **A. J. Chamkha**, “An Analysis on Free Convection Flow, Heat Transfer and Entropy Generation in an Odd-Shaped Cavity Filled with Nanofluid.” **International Communications in Heat and Mass Transfer**, Volume 54, 8-17, 2014.

360. S.K. Jena, V.K. Yettella, C.P. Sandeep, S.K. Mahapatra and **A. J. Chamkha**, “Three-Dimensional Rayleigh-Bénard Convection of Molten Gallium in a Rotating Cuboid Under the Influence of a Vertical Magnetic Field.” **International Journal of Heat and Mass Transfer**, Volume 78, pp. 341-353, 2014.
361. A. Govindarajan, **A. J. Chamkha**, S. Kesavan and M. Vidhya, “Chemical Reaction Effects on Unsteady Magnetohydrodynamic Free Convective Flow in a Rotating Porous Medium with Mass Transfer.” **Thermal Science**, Volume 18, pp. S515-S526, 2014.
362. V. Rajesh and **A. J. Chamkha**, “Effects of Ramped Wall Temperature on Unsteady Two-Dimensional Flow Past a Vertical Plate with Thermal Radiation and Chemical Reaction.” **Communications in Numerical Analysis**, Volume 2014, pp. 1-17, 2014.
363. A.M. Rashad, **A. J. Chamkha** and S.M.M. El-Kabeir, “Effects of Radiation and Chemical Reaction on Heat and Mass Transfer by Natural Convection in a Micropolar Fluid Saturated Porous Medium with Streamwise Temperature and Species Concentration Variations.” **Heat Transfer Research**, Volume 45, pp. 795-815, 2014.
364. **A. J. Chamkha**, B. Mallikarjuna, R. B. Vijaya, and D.R.V. Prasada Rao, “Heat and Mass Transfer in a Porous Medium Filled Rectangular Duct with Soret and Dufour Effects Under Inclined Magnetic Field.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 24, pp. 1405-1436, 2014.
365. Sahin Ahmed and **A.J. Chamkha**, “Hartmann Newtonian Radiating MHD Flow for a Rotating Vertical Porous Channel Immersed in a Darcian Porous Regime: An Exact Solution.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 24, pp. 1454-1470, 2014.
366. **A.J. Chamkha**, A.M. Rashad and R. Gorla, “Non-Similar Solutions for Mixed Convection along a Wedge Embedded in a Porous Medium Saturated by a Non-Newtonian Nanofluid.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 24, pp. 1471-1486, 2014.
367. S. Kesavan, **A. J. Chamkha** and S.K. Narayanan, “Magnetohydrodynamic (MHD) Squeeze Film Characteristics Between Finite Porous Parallel Rectangular Plates with Surface Roughness.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 24, pp. 1595-1609, 2014.
368. M.A. Mansour, M.A.Y. Bakeir and **A.J. Chamkha**, “Numerical Modeling of Natural Convection of a Nanofluid Between Two Enclosures.” **Journal of Nanofluids**, Volume 3, pp. 368-379, 2014.
369. E. Abu-Nada and **A. J. Chamkha**, “Mixed Convection Flow of a Nanofluid in a Lid-Driven Cavity with a Wavy Wall.” **International Communications in Heat and Mass Transfer**, Volume 57, pp. 36-47, 2014.
370. A.M. Rashad, S. Abbasbandy and **A.J. Chamkha**, “Mixed Convection Flow of a Micropolar Fluid over a Continuously Moving Vertical Surface Immersed in a Thermally and Solutally Stratified Medium with Chemical Reaction.” **Journal of the Taiwan Institute of Chemical Engineers**, Volume 45, pp. 2163-2169, 2014.

371. J.C. Umavathi, I.C. Liu and **A.J. Chamkha**, “Mixed Convection Flow in a Vertical Channel Filled with a Fluid-Saturated Porous Medium Divided by a Perfectly Conductive Baffle.” **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, Volume 5, pp. 127-147, 2014.
372. M. Rahman, H. Oztop, S. Mekhilef, R. Saidur, **A. J. Chamkha**, A. Ahsan and K. Al-Salem, “A Finite Element Analysis on Combined Convection and Conduction in a Channel with a Thick Walled Cavity.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 24, pp. 1888-1904, 2014.
373. M.A. Mansour, M.A.Y. Bakeir and **A.J. Chamkha**, “Natural Convection Inside a C-Shaped Nanofluid-Filled Enclosure with Localized Heat Sources.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 24, pp. 1954-1978, 2014.
374. S.K. Jena, L.K. Malla, S.K. Mahapatra and **A. J. Chamkha**, “Transient Buoyancy-Opposed Double Diffusive Convection of Micropolar Fluids in a Square Enclosure.” **International Journal of Heat and Mass Transfer**, Volume 81, pp. 681-694, 2014.
375. **A.J. Chamkha** and A.M. Rashad, “Unsteady Heat and Mass Transfer by MHD Mixed Convection Flow from a Rotating Vertical Cone with Chemical Reaction and Soret and Dufour Effects.” **The Canadian Journal of Chemical Engineering**, Volume 92, pp. 758-767, 2014.
376. G.K. Ramesh, **A. J. Chamkha** and B.J. Gireesha, “MHD Mixed Convection Viscoelastic Fluid Over an Inclined Surface with a Non-Uniform Heat Source/Sink.” **Canadian Journal of Physics**, Volume 91, pp. 1074-1080, 2013.
377. B. Mallikarjuna, **A. J. Chamkha** and R. B. Vijaya, “Soret and Dufour Effects on Double Diffusive Convective Flow Through a Non-Darcy Porous Medium in a Cylindrical Annular Region in the Presence of Heat Sources.” **Journal of Porous Media**, Volume 17, pp. 623-636, 2014.
378. P.V. Murthy, C. RamReddy, **A.J. Chamkha** and A.M. Rashad, “Significance of Viscous Dissipation and Chemical Reaction on Convective Transport in a Boundary Layer Stagnation Point Flow Past a Stretching/Shrinking Sheet in a Nanofluid.” **Journal of Nanofluids**, Volume 4, pp. 214-222, 2014.
379. T. Armaghani, **A. J. Chamkha**, M.J. Maghrebi, and M. Nazari, “Numerical Analysis of a Nanofluid Forced Convection in a Porous Channel: A New Heat Flux Model in LTNE Condition.” **Journal of Porous Media**, Volume 17, pp. 637-646, 2014.
380. M.J. Maghrebi, M. Nazari, T. Armaghani and **A. J. Chamkha**, “New Models for Heat Flux Splitting at the Boundary of a Porous Medium: Three Energy Equations for Nanofluid Flow under Thermal Non-Equilibrium Condition.” **Canadian Journal of Physics**, Volume 92, pp. 1312-1319, 2014.
381. J. Philip, M.C. Raju, **A. J. Chamkha** and S.V. Varma, “MHD Rotating Heat and Mass Transfer Free Convective Flow Past an Exponentially Accelerated Isothermal Plate with Fluctuating Mass Diffusion.” **International Journal of Industrial Mathematics**, Volume 6, 297-306, 2014.

382. B.J. Gireesha, **A.J. Chamkha**, N.G. Rudraswamy and M.R. Krishnamurthy, "MHD Flow and Heat Transfer of a Nanofluid Embedded with Dust Particles Over a Stretching Sheet." **Journal of Nanofluids**, Volume 4, pp. 66-72, 2015.
383. K. Ahmed, S. Parvin and **A.J. Chamkha**, "Numerical Analysis Based on Heatline Approach for Natural Convection Flows within Prismatic Enclosures." **International Journal of Energy & Technology**, Volume 7, pp. 19-29, 2015.
384. **A.J. Chamkha**, S. Abbasbandy, A.M. Rashad, "Non-Darcy Natural Convection Flow of Non-Newtonian Nanofluid Over a Cone Saturated in a Porous Medium with Uniform Heat and Volume Fraction Fluxes." **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 25, pp. 422-437, 2015.
385. S. Das, R.N. Jana and **A. J. Chamkha**, "Magnetohydrodynamic Free Convective Boundary Layer Flow of Nanofluids Past a Porous Plate in a Rotating Frame." **Journal of Nanofluids**, Volume 4, pp. 176-186, 2015.
386. S. Nallapu, G. Radhakrishnamacharya and **A.J. Chamkha**, "Flow of a Jeffrey Fluid Through a Porous Medium in Narrow Tubes." **Journal of Porous Media**, Volume 18, pp. 71-78, 2015.
387. N.G. Rudraswamy, B.J. Gireesha and **A.J. Chamkha**, "Effects of Magnetic Field and Chemical Reaction on Stagnation-Point Flow and Heat Transfer of a Nanofluid over an Inclined Stretching Sheet." **Journal of Nanofluids**, Volume 4, 239-246, 2015.
388. M.A. Mansour, **A.J. Chamkha** and M.A.Y. Bakeir, "Magnetohydrodynamic Natural Convection and Entropy Generation of a Cu-Water Nanofluid in a Cavity with Wall Mounted Heat Source/Sink ." **Journal of Nanofluids**, Volume 4, pp. 254-269, 2015.
389. A. Mahdy and **A.J. Chamkha**, "Heat Transfer and Fluid Flow of a Non-Newtonian Nanofluid Over an Unsteady Contracting Cylinder Employing Buongiorno's Model." **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 25, pp. 703-723, 2015.
390. **A. J. Chamkha**, S.M.M. El-Kabeir and A.M. Rashad, "Unsteady Coupled Heat and Mass Transfer By Mixed Convection Flow of a Micropolar Fluid Near the Stagnation Point on a Vertical Surface in the Presence of Radiation and Chemical Reaction." **Progress in Computational Fluid Dynamics**, Volume 15, pp. 186-196, 2015.
391. M. Ghalambaz, A. Behseresht, J. Behseresht and **A.J. Chamkha**, "Effects of Nanoparticles Diameter and Concentration on Natural Convection of the Al<sub>2</sub>O<sub>3</sub>-Water Nanofluids Considering Variable Thermal Conductivity Around a Vertical Cone in Porous Media." **Advanced Powder Technology**, Volume 26, pp. 224-235, 2015.
392. Sahin Ahmed, Abdul Batin and **A.J. Chamkha**, "Numerical/Laplace Transform Analysis for MHD Radiating Heat/Mass Transport in a Darcian Porous Regime Bounded by an Oscillating Vertical Surface." **Alexandria Engineering Journal**, Volume 54, pp. 45-54, 2015.

393. S. Das, R.N. Jana and **A. J. Chamkha**, “Entropy Generation in a Rotating Couette Flow with Suction/Injection.” **Communications in Numerical Analysis**, Volume 2015 (1), pp. 62-81, 2015.
394. **A.J. Chamkha**, S.K. Jena, and S.K. Mahapatra, “MHD Convection in Nanofluids: A Review.” **Journal of Nanofluids**, Volume 4, pp. 271-292, 2015.
395. S.M.M. El-Kabeir, **A. J. Chamkha** and A.M. Rashad, “Unsteady Slip Flow of a Nanofluid Due to a Contracting Cylinder with Newtonian Heating.” **Journal of Nanofluids**, Volume 4, pp. 394-401, 2015.
396. S.K. Jena, S.K. Mahapatra, A. Sarkar and **A. J. Chamkha**, “Thermo-Solutal Buoyancy-Opposed Free Convection of a Binary Ostwald-De Waele Fluid Inside a Cavity Having Partially-Active Vertical Walls.” **Journal of the Taiwan Institute of Chemical Engineers**, Volume 51, pp. 9-19, 2015.
397. B.C.P. Kumara, G.K. Ramesh, **A.J. Chamkha** and B.J. Gireesha, “Stagnation-Point Flow of a Viscous Fluid Towards a Stretching Surface with Variable Thickness and Thermal Radiation.” **International Journal of Industrial Mathematics**, Volume 7, pp. 77-85, 2015.
398. A. Zaraki, M. Ghalambaz, **A.J. Chamkha**, M. Ghalambaz and D. De Rossi, “Theoretical Analysis of Natural Convection Boundary Layer Heat and Mass Transfer of Nanofluids: Effects of Size, Shape and Type of Nanoparticles, Type of Base Fluid and Working Temperature.” **Advanced Powder Technology**, Volume 26, pp. 935-946, 2015.
399. M. Ghalambaz, E. Izadpanahi, A. Noghrehabadi and **A.J. Chamkha**, “Study of the Boundary Layer Heat Transfer of Nanofluids over a Stretching Sheet: Passive Control of Nanoparticles on the Surface.” **Canadian Journal of Physics**, Volume 93, pp. 725-733, 2015.
400. S. Das, R.N. Jana and **A. J. Chamkha**, “Entropy Generation Due to Unsteady Hydromagnetic Couette Flow and Heat Transfer with Asymmetric Convective Cooling in a Rotating System.” **Journal of Mathematical Modeling**, Volume 3, pp. 107-128, 2015.
401. A.M. Rashad, **A. J. Chamkha**, C. RamReddy and P.V. Murthy, “Effect of Viscous Dissipation on Mixed Convection in a Nanofluid Saturated Non-Darcy Porous Medium Under Convective Boundary Condition.” **Journal of Nanofluids**, Volume 4, pp. 548-559, 2015.
402. J.C. Umavathi, **A.J. Chamkha** and M.B. Mohite, “Convective Transport in a Nanofluid Saturated Porous Layer with Cross Diffusion and Variation of Viscosity and Conductivity.” **Special Topics & Reviews in Porous Media**, Volume 6, pp. 11-27, 2015.
403. M.A. Ismael and **A. J. Chamkha**, “Conjugate Natural Convection in a Differentially Heated Composite Enclosure Filled with a Nanofluid.” **Journal of Porous Media**, Volume 18, pp. 699-716, 2015.
404. S. Das, R.N. Jana and **A. J. Chamkha**, “Unsteady Free Convection Flow Past a Vertical Plate with Heat and Mass Fluxes in the Presence of Thermal Radiation.” **Journal of Applied Fluid Mechanics**, Volume 8, pp. 845-854, 2015.

405. G.V.R. Reddy and **A. J. Chamkha**, “Lie Group Analysis of Chemical Reaction Effects on MHD Free Convection Dissipative Fluid Flow Past an Inclined Porous Surface.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 25, pp. 1557-1573, 2015.
406. P.K. Tripathy, S.K. Mishra and **A. J. Chamkha**, “Simulation of Particle Diffusion and Heat Transfer in a Two-Phase Turbulent Boundary Layer Using the Eulerian-Eulerian Approach.” **Journal of Mathematical Modeling**, Volume 3, pp. 169-187, 2015.
407. M.A. Ismael and **A. J. Chamkha**, “Mixed Convection in Lid-Driven Trapezoidal Cavities with Aiding or Opposing Side Wall.” **Numerical Heat Transfer, Part A**, Volume 68, pp. 312-335, 2015.
408. A. Alsabery, **A. J. Chamkha**, S. Hussain, H. Saleh and I. Hashim, “Heatline Visualization of Natural Convection in a Trapezoidal Cavity Partly Filled with a Nanofluid Porous Layer and Partly with a Non-Newtonian Fluid Layer.” **Advanced Powder Technology**, Volume 26, pp. 1230-1244, 2015.
409. Sahin Ahmed, Karabi Kalita and **A.J. Chamkha**, “Analytical and Numerical Solution of Three-Dimensional Channel Flow in Presence of a Sinusoidal Fluid Injection and a Chemical Reaction.” **Ain Shams Engineering Journal**, Volume 6, pp. 691-701, 2015.
410. M. Modather, E. R. EL-Zahar and **A. J. Chamkha**, “MHD Mixed Convection Stagnation-Point Flow of a Viscoelastic Fluid towards a Stretching Sheet in a Porous Medium with Heat Generation and Radiation.” **Canadian Journal of Physics**, Volume 93, pp. 532-541, 2015.
411. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and Y. Ramarao, “Mixed Convection of Electrically Conducting and Viscous Fluid in a Vertical Channel Using Robin Boundary Conditions.” **Canadian Journal of Physics**, Volume 93, pp. 698-710, 2015.
412. A.M. Aly and M. Asai and **A. J. Chamkha**, “Analysis of Unsteady Mixed Convection in Lid-Driven Cavity Included Circular Cylinders Motion Using an Incompressible Smoothed Particle Hydrodynamics Method.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 25, pp. 2000-2021, 2015.
413. H. Zargartalebi, M. Ghalambaz, A. Noghrehabadi and **A.J. Chamkha**, “Stagnation-Point Heat Transfer of Nanofluids towards Stretching Sheets with Variable Thermo-Physical Properties.” **Advanced Powder Technology**, Volume 26, pp. 819-829, 2015.
414. M. Ismael, T. Armaghani and **A.J. Chamkha**, “Conjugate Heat Transfer and Entropy Generation in a Cavity Filled with a Nanofluid-Saturated Porous Media and Heated by a Triangular Solid.” **Journal of the Taiwan Institute of Chemical Engineers**, Volume 59, pp. 138-151, 2016.
415. S. Nallapu, G. Radhakrishnamacharya and **A.J. Chamkha**, “Effect of Slip on Herschel-Bulkley Fluid Flow Through Narrow Tubes.” **Alexandria Engineering Journal**, Volume 54, pp. 889-896, 2015.

416. A.M. Rashad, **A. J. Chamkha** and S.M.M. El-Kabeir, "Natural Convection Flow of a Nanofluid Along a Vertical Plate with Streamwise Temperature Variations." **Heat Transfer - Asian Research**, Volume 45, pp. 499-514, 2016.
417. S. Das, R.N. Jana and **A. J. Chamkha**, "Unsteady Free Convection Flow Between Two Vertical Plates with Variable Temperature and Mass Diffusion." **Journal of Heat and Mass Transfer Research**, Volume 2, pp. 49-58, 2015.
418. G. Sreedevi, R.R. Rao, **A.J. Chamkha**, D.R.V.P. Rao, "Mixed Convective Heat and Mass Transfer Flow of Nanofluids in Concentric Annulus." **Procedia Engineering**, Volume 127, pp. 1048-1055, 2015.
419. D. Srinivasacharya, **A. J. Chamkha**, O. Surender and A.M. Rashad, "Natural Convection on a Porous Vertical Plate in a Doubly Stratified Non-Darcy Porous Medium." **Frontiers in Heat and Mass Transfer**, Volume 6, Paper 19, pp. 1-7, 2015.
420. M. Umamaheswar, S.V. Varma, M.C. Raju and **A. J. Chamkha**, "Unsteady Magnetohydrodynamic Free Convective Double Diffusive Viscoelastic Fluid Flow Past an Inclined Permeable Plate in the Presence of Viscous Dissipation and Heat Absorption." **Special Topics & Reviews in Porous Media**, Volume 6, pp. 333-342, 2015.
421. **A. J. Chamkha** and J. Al-Humoud, "Deep Bed Filtration with Time-Dependent Input Conditions." **Special Topics & Reviews in Porous Media**, Volume 6, pp. 343-352, 2015.
422. R. Chowdhury, S. Parvin, M.A.H. Khan and **A. J. Chamkha**, "MHD Natural Convection in a Porous Equilateral Triangular Enclosure with a Heated Square Body in the Presence of Heat Generation." **Special Topics & Reviews in Porous Media**, Volume 6, pp. 353-365, 2015.
423. N. Arbin, H. Saleh, I. Hashim and **A. J. Chamkha**, "Numerical Investigation of Double-Diffusive Convection in an Open Cavity with Partially Active Wall via Heatline Approach." **International Journal of Thermal Sciences**, Volume 100, pp. 169-184, 2016.
424. B. Pullepu, P. Sambath, M. Selva Rani, **A.J. Chamkha** and K.K. Viswanathan, "Numerical Solutions of Free Convective Flow from a Vertical Cone with Mass Transfer under the Influence of Chemical Reaction and Heat Generation/Absorption in the Presence of UWT/UWC." **Journal of Applied Fluid Mechanics**, Volume 9, pp. 343-356, 2016.
425. J.C. Umavathi, **A.J. Chamkha** and S. Mohiuddin, "Combined Effect of Variable Viscosity and Thermal Conductivity on Free Convection Flow of a Viscous Fluid in a Vertical Channel." **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 18-39, 2016.
426. V. Rajesh, **A.J. Chamkha** and M. P. Mallesh, "Nanofluid Flow past an Impulsively Started Vertical Plate with Variable Surface Temperature." **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 328-347, 2016.
427. **A.J. Chamkha**, M. Ismael, A. Kasaeipoor and T. Armaghani, "Entropy Generation and Natural Convection of CuO-Water Nanofluid in C-Shaped Cavity under Magnetic Field." **Entropy**, Volume 18, Article 50, 2016.



428. G.K. Ramesh, **A. J. Chamkha** and B.J. Giresha, “Boundary Layer Flow Past an Inclined Stationary/Moving Flat Plate with Convective Boundary Condition.” **Afrika Matmetika**, Volume 27, pp. 87-95, 2016.
429. M.C. Raju, **A. J. Chamkha**, J. Philip and S.V. Varma, “Soret Effect Due to Mixed Convection on Unsteady Magnetohydrodynamic Flow Past a Semi Infinite Vertical Permeable Moving Plate in Presence of Thermal Radiation, Heat Absorption and Homogenous Chemical Reaction.” **International Journal of Applied and Computational Mathematics**, Volume 3, pp. 947-961, 2017.
430. S. Reddy and **A.J. Chamkha**, “Influence of Size, Shape, Type of Nanoparticles, Type and Temperature of the Base Fluid on Natural Convection MHD of Nanofluids.” **Alexandria Engineering Journal**, Volume 55, pp. 331-341, 2016.
431. S.K. Narayanan, **A. J. Chamkha** and S. Kesavan, “Squeeze Film Behavior in Porous Transversely Circular Stepped Plates with a Couple Stress Fluid.” **Engineering Computations**, Volume 33, pp. 328-343, 2016.
432. G. Seth, R. Sharma, B. Kumbhakar and **A.J. Chamkha**, “Hydromagnetic Flow of Heat Absorbing and Radiating Fluid over Exponentially Stretching Sheet with Partial Slip and Viscous and Joule Dissipation.” **Engineering Computations**, Volume 33, pp. 907-925, 2016.
433. E. Jamesahar, M. Ghalambaz and **A.J. Chamkha**, “Fluid-Solid Interaction in Natural Convection Heat Transfer in a Square Cavity with a Perfectly Thermal-Conductive Flexible Diagonal Partition.” **International Journal of Heat and Mass Transfer**, Volume 100, pp. 303-319, 2016.
434. B. Mallikarjuna, A.M. Rashad, **A. J. Chamkha**, and S.H. Raju, “Chemical Reaction Effects on MHD Convective Heat and Mass Transfer Flow Past a Rotating Vertical Cone Embedded in a Variable Porosity Regime.” **Afrika Matematika**, Volume 27, pp. 645-665, 2016.
435. S. Reddy and **A.J. Chamkha**, “Soret and Dufour Effects on MHD Heat and Mass Transfer Flow of a Micropolar Fluid with Thermophoresis Particle Deposition.” **Journal of Naval Architecture and Marine Engineering**, Volume 13, pp. 39-50, 2016.
436. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “MHD Mixed Convection and Entropy Generation of Nanofluid Filled Lid Driven Cavity Under the Influence of Inclined Magnetic Fields Imposed to its Upper and Lower Diagonal Triangular Domains.” **Journal of Magnetism and Magnetic Materials**, Volume 406, pp. 266-281, 2016.
437. M. Ismael, M.A. Mansour, **A.J. Chamkha** and A.M. Rashad, “Mixed Convection in a Nanofluid Filled-Cavity with Partial Slip Subjected to Constant Heat Flux and Inclined Magnetic Field.” **Journal of Magnetism and Magnetic Materials**, Volume 416, pp. 25-36, 2016.
438. G. Sreedevi, R.R. Rao, D.R.V.P. Rao and **A. J. Chamkha**, “Combined Influence of Radiation Absorption and Hall Current Effects on MHD Double-Diffusive Free Convective Flow Past a Stretching Sheet.” **Ain Shams Engineering Journal**, Volume 7, pp. 383-397 2016.

439. S.R. Sheri, **A.J. Chamkha** and A.K. Suram, “Heat and Mass Transfer Effects on MHD Natural Convection Flow past an Impulsively Moving Vertical Plate with Ramped Temperature.” **American Journal of Heat and Mass Transfer**, Volume 3, pp. 129-148, 2016.
440. G.V.R. Reddy, N.B. Reddy and **A. J. Chamkha**, “MHD Mixed Convection Oscillatory Flow over a Vertical Surface in a Porous Medium with Chemical Reaction and Thermal Radiation.” **Journal of Applied Fluid Mechanics**, Volume 9, pp. 1221-1229, 2016.
441. G. Seth, S. Sarkar and **A.J. Chamkha**, “Unsteady Hydromagnetic Flow past a Moving Vertical Plate with Convective Surface Boundary Condition.” **Journal of Applied Fluid Mechanics**, Volume 9, pp. 1877-1886, 2016.
442. H. Zargartalebi, M. Ghalambaz, A. Noghrehabadi and **A.J. Chamkha**, “Natural Convection of a Nanofluid in an Enclosure with Inclined Local Thermal Non-equilibrium Porous Fin Considering Buongiorno’s Model.” **Numerical Heat Transfer, Part A**, Volume 70, pp. 432-445, 2016.
443. S. Reddy and **A.J. Chamkha**, “Soret and Dufour Effects on MHD Convective Flow of  $Al_2O_3$ -Water and  $TiO_2$ -Water Nanofluids Past a Stretching Sheet in Porous Media with Heat Generation/Absorption.” **Advanced Powder Technology**, Volume 27, pp. 1207-1218, 2016.
444. M. Sheikholeslami and **A.J. Chamkha**, “Flow and Convective Heat Transfer of a Ferro-Nanofluid in a Double-Sided Lid-Driven Cavity with a Wavy Wall in the Presence of a Variable Magnetic Field.” **Numerical Heat Transfer, Part A**, Volume 69, pp. 1186-1200, 2016.
445. M. Sheikholeslami and **A.J. Chamkha**, “Electrohydrodynamic Free Convection Heat Transfer of a Nanofluid in a Semi-Annulus Enclosure with a Sinusoidal Wall.” **Numerical Heat Transfer, Part B**, Volume 69, pp. 781-793, 2016.
446. G. Seth, M K Mishra, and **A.J. Chamkha**, “Hydromagnetic Convective Flow of Viscoelastic Nanofluid with Convective Boundary Condition over an Inclined Stretching Sheet.” **Journal of Nanofluids**, Volume 5, pp. 511-521, 2016.
447. **A.J. Chamkha**, F. Selimefendigil and M. Ismael, “Mixed Convection in a Partially Layered Porous Cavity with Inner Rotating Cylinder.” **Numerical Heat Transfer, Part A**, Volume 69, pp. 659-675, 2016.
448. M. Ashraf, **A.J. Chamkha**, S. Iqbal and M. Ahmad “Effects of Temperature-Dependent Viscosity and Thermal Conductivity on Mixed Convection Flow Along a Magnetized Vertical Surface.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 1580-1592, 2016.
449. S. Reddy and **A.J. Chamkha**, “Soret and Dufour Effects on Unsteady MHD Heat and Mass Transfer from a Permeable Stretching Sheet with Thermophoresis and Non-Uniform Heat Generation/Absorption.” **Journal of Applied Fluid Mechanics**, Volume 9, pp. 2443-2455, 2016.
450. A. Alsabery, **A. J. Chamkha** and I. Hashim, “Heatline Visualization of Conjugate Natural Convection in a Square Cavity Filled with Nanofluid with Sinusoidal Temperature Variations on both Horizontal Walls.” **International Journal of Heat and Mass Transfer**, Volume 100, pp. 835-850, 2016.

451. M. Madhu, N. Kishan and **A. J. Chamkha**, “Boundary Layer Flow and Heat Transfer of a non-Newtonian Nanofluid over a Non-Linearly Stretching Sheet.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 2198-2217, 2016.
452. M.C. Raju, S.V. Varma and **A.J. Chamkha**, “Unsteady Free Convection Flow Past a Periodically Accelerated Vertical Plate with Newtonian Heating.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 2119-2138, 2016.
453. J. Rajakumar, P. Saikrishnan and **A.J. Chamkha**, “Non-Uniform Mass Transfer in MHD Mixed Convection Flow of Water Over a Sphere With Variable Viscosity and Prandtl Number.” **International Journal for Numerical Methods in Heat and Fluid Flow**, Volume 26, pp. 2235-2251, 2016.
454. V. Rajesh and **A.J. Chamkha** and M. P. Mallesh “Transient MHD Free Convection Flow and Heat Transfer of Nanofluid Past an Impulsively Started Semi-Infinite Vertical Plate.” **Journal of Applied Fluid Mechanics**, Volume 9, pp. 2457-2467, 2016.
455. B. C. Shekar, N. Kishan and **A. J. Chamkha**, “Soret and Dufour Effects on MHD Natural Convective Heat and Solute Transfer in a Fluid-Saturated Porous Cavity.” **Journal of Porous Media**, Volume 19, pp. 669-686, 2016.
456. J.V. Ramana Murthy, J. Srinivas and **A.J. Chamkha**, “Analysis of Entropy Generation in an Inclined Channel Flow Containing Two Immiscible Micropolar Fluids Using HAM.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 26, pp. 1027-1049, 2016.
457. A.M. Rashad, M. Ismael, **A.J. Chamkha** and M.A. Mansour, “MHD Mixed Convection of Localized Heat Sources in a Nanofluid-Filled Lid-Driven Square Cavity with Partial Slip.” **Journal of the Taiwan Institute of Chemical Engineers**, Volume 68, pp. 173-186, 2016.
458. A.M. Rashad, B. Mallikarjuna, **A. J. Chamkha**, and S.H. Raju, “Thermophoresis Effect on Heat and Mass Transfer from a Rotating Cone in a Porous Medium with Thermal Radiation.” **Afrika Matematika**, Volume 27, pp. 1409-1424, 2016.
459. M. Ghalambaz, **A.J. Chamkha**, Mehdi Ghalambaz and M. Edalatifar, “Dynamic Pull-in Instability of Nano-Actuators in the Presence of a Dielectric Layer.” **Journal of Optoelectronic Nanostructures**, Volume 1, pp. 9-30, 2016.
460. J. Rajakumar, P. Saikrishnan and **A.J. Chamkha** and A.F. Al-Mudhaf, “Non-Similar Solution of Steady MHD Mixed Convection Flow Over a Rotating Sphere with the Effect of Non-Uniform Mass Transfer.” **Computational Thermal Sciences**, Volume 8, pp. 509-523, 2016.
461. F. Selimefendigil, and **A.J. Chamkha**, “Natural Convection of a Hybrid Nanofluid-Filled Triangular Annulus with an Opening.” **Computational Thermal Sciences**, Volume 8, pp. 555-566, 2016.
462. C. RamReddy, P.V. Murthy, A.M. Rashad and **A.J. Chamkha**, “Soret Effect on Stagnation-Point Flow Past a Stretching/Shrinking Sheet in a Nanofluid-Saturated Non-Darcy Porous Medium.” **Special Topics & Reviews in Porous Media**, Volume 7, pp. 229-243, 2016.

463. M. Ghalambaz, E. Jamesahar, M. Ismael and **A.J. Chamkha**, “Fluid-Structure Interaction Study of Natural Convection Heat Transfer over a Flexible Oscillating Fin in a Square Cavity.” **International Journal of Thermal Sciences**, Volume 111, pp. 256-273, 2017.
464. S.A.M. Mehryan, A. Mansouri, M. Ghalambaz, M. Ismael and **A.J. Chamkha**, “Analysis of Fluid-Solid Interaction in MHD Natural Convection in a Square Cavity Equally Partitioned by a Vertical Flexible Membrane.” **Journal of Magnetism and Magnetic Materials**, Volume 424, pp. 161-173, 2017.
465. S. Reddy, and P. Sreedevi, and **A.J. Chamkha**, “MHD Boundary Layer Flow, Heat and Mass Transfer Analysis over a Rotating Disk through Porous Medium Saturated by Cu-Water and Ag-Water Nanofluid with Chemical Reaction.” **Powder Technology**, Volume 307, pp.46-55, 2017.
466. A. Kasaeian, R. D. Azarian, O. Mahian, L. Kolsi, **A.J. Chamkha**, S. Wongwises, I. Pop, “Nanofluid Flow and Heat Transfer in Porous Media: A Review of the Latest Developments.” **International Journal of Heat and Mass Transfer**, Volume 107, pp. 778-791, 2017.
467. A. Alsabery, **A. J. Chamkha**, H. Saleh and I. Hashim, “Transient Natural Convective Heat Transfer in a Trapezoidal Cavity Filled with Non-Newtonian Nanofluid with Sinusoidal Boundary Conditions on both Sidewalls.” **Powder Technology**, Volume 308, pp. 214-234, 2017.
468. M. Sheikholeslami, and **A.J. Chamkha**, “Influence of Lorentz Forces on a Nanofluid Considering Marangoni Convection.” **Journal of Molecular Liquids**, Volume 225, pp. 750-757, 2017.
469. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “Fluid–Structure-Magnetic Field Interaction in a Nanofluid Filled Lid-Driven Cavity with Flexible Side Wall.” **European Journal of Mechanics B/Fluids**, Volume 61, pp. 77-85, 2017.
470. A. Alsabery, **A. J. Chamkha**, H. Saleh, I. Hashim and B. Chanane, “Effects of Finite Wall Thickness and Sinusoidal Heating on Convection in Nanofluid-Saturated Local Thermal Non-equilibrium Porous Cavity.” **Physica A**, Volume 470, pp. 20-38, 2017.
471. S. Mirzakhani, K. Milani Shirvan, M. Mamourian and **A.J. Chamkha** “Increment of Mixed Convection Heat Transfer and Decrement of Drag Coefficient in a Lid-Driven Nanofluid-Filled Cavity with a Conductive Rotating Circular Cylinder at Different Horizontal Locations: A Sensitivity Analysis.” **Advanced Powder Technology**, Volume 305, pp. 495-508, 2017.
472. A.A. Bakr and **A. J. Chamkha**, “Oscillatory Free Convection of a Micropolar Rotating Fluid on a Vertical Plate with Variable Heat Flux and Thermal Radiation.” **Heat Transfer Research**, Volume 48, pp. 139-159, 2017.
473. M. Ghalambaz, A. D. Dezfouli, H. Zargartalebi and **A.J. Chamkha**, “MHD Phase Change Heat Transfer in an Inclined Enclosure: Effect of Magnetic Field and Cavity Inclination.” **Numerical Heat Transfer, Part A**, Volume 71, pp. 91-109, 2017.
474. M.A. Mansour, S. Elsayed and **A.J. Chamkha**, “Entropy Generation Optimization for MHD Natural Convection of a Nanofluid in Porous Media-Filled Enclosure

- with Active Parts and Viscous Dissipation.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 27, pp. 379-399, 2017.
475. S. Reddy and **A.J. Chamkha**, “Heat and Mass Transfer Characteristics of Al<sub>2</sub>O<sub>3</sub>-Water and Ag-Water Nanofluid Through Porous Media over a Vertical Cone with Heat Generation/Absorption.” **Journal of of porous Media**, Volume 20, pp. 1-17, 2017.
476. **A.J. Chamkha**, A. Doostanidezfuli, E. Izadpanahi and M. Ghalambaz, “Phase-Change Heat Transfer of Single/Hybrid Nanoparticles-Enhanced Phase-Change Materials over a Heated Horizontal Cylinder Confined in a Square Cavity.” **Advanced Powder Technology**, Volume 28, pp. 385-397, 2017.
477. M. Ghalambaz, A. Doostanidezfouli, E. Izadpanahi and **A.J. Chamkha**, “Phase-Change Heat Transfer in a Cavity Heated from Below: The Effect of Utilizing Single or Hybrid Nanoparticles as Additives.” **Journal of the Taiwan Institute of Chemical Engineers**, Volume 72, pp. 104-115, 2017.
478. **A.J. Chamkha**, A. M. Aly and Z. A. S. Raizah, “Double-Diffusion MHD Free Convective Flow along a Sphere in the Presence of a Homogeneous Chemical Reaction and Soret and Dufour Effects.” **Applied and Computational Mathematics**, Volume 6, pp. 34-44, 2017.
479. S. Reddy and **A.J. Chamkha**, “Heat and Mass Transfer Analysis in Natural Convection flow of Nanofluid over a Vertical Cone with Chemical Reaction.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 27, pp. 2-22, 2017.
480. S. Reddy, **A.J. Chamkha** and A.F. Al-Mudhaf, “MHD Heat and Mass Transfer Flow of a Nanofluid over an Inclined Vertical Porous Plate with Radiation and Heat Generation/Absorption.” **Advanced Powder Technology**, Volume 28, pp. 1008-1017, 2017.
481. J.C. Umavathi and **A. J. Chamkha**, “Mixed Convection Flow of an Electrically-Conducting Fluid in a Vertical Channel with Boundary Conditions of the Third Kind.” **Canadian Journal of Physics**, Volume 92, pp. 1387-1396, 2014.
482. A.M. Aly, **A. J. Chamkha**, S.-W. Lee and A.F. AlMudhaf, “On Mixed Convection in an Inclined Lid-Driven Cavity with Sinusoidal Heated Walls using ISPH Method.” **Computational Thermal Sciences**, Volume 8, pp. 337-354, 2016.
483. **A. J. Chamkha** and M.A. Ismael, “Magnetic Field Effect on Mixed Convection in Lid-Driven Trapezoidal Cavities Filled With a Cu–Water Nanofluid With an Aiding or Opposing Side Wall.” **ASME Journal of Thermal Science and Engineering Applications**, Volume 8, 031009-031009-12. doi:10.1115/1.4033211, 12 pages, 2016.
484. F. Selimefendigil and **A.J. Chamkha**, “MHD Mixed Convection in a Lid-Driven Cavity Having a Corrugated Bottom Wall and Filled with a Non-Newtonian Power-Law Fluid Under the Influence of an Inclined Magnetic Field.” **ASME Journal of Thermal Science and Engineering Applications**, Volume 8, 021023-021023-8. doi:10.1115/1.4032760, 8 pages, 2016.
485. T. Tayebi, **A.J. Chamkha**, M. Djezzar, and A. Bouzerzour, “Natural Convective Nanofluid Flow in an Annular Space between Confocal Elliptic Cylinders.” **ASME**

- Journal of Thermal Science and Engineering Applications**, Volume 9, 011010-011010-9. doi:10.1115/1.4034599, 9 pages, 2016.
486. G. S. Seth, R. Tripathi, R. Sharma and **A. J. Chamkha**, “MHD Double Diffusive Natural Convection Flow Over Exponentially Accelerated Inclined Plate.” **Journal of Mechanics**, Volume 33, pp. 87-99, 2017.
487. T. Armaghani, M.J. Maghrebi, **A. J. Chamkha**, and A.F. Al-Mudhaf, “Forced Convection Heat Transfer of Nanofluids in a Channel Filled with Porous Media under LTNE Condition with Three New Models for Absorbed Heat Flux.” **Journal of Nanofluids**, Volume 6, pp. 362-367, 2017.
488. A. Doostanidezfouli, M. Ghalambaz and **A.J. Chamkha**, “MHD Natural Convection Phase-Change Heat Transfer in a Cavity: Analysis of the Magnetic Field Effect.” **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, Volume 39, pp. 2831-2846, 2017.
489. A. Alsabery, **A. J. Chamkha**, H. Saleh, I. Hashim, and B. Chanane, “Darcian Natural Convection in an Inclined Trapezoidal Cavity Partly Filled with a Porous Layer and Partly with a Nanofluid Layer.” **Sains Malaysiana**, Volume 46, pp. 803-815, 2017.
490. M. Ismael, F. Selimefendigil and **A.J. Chamkha**, “Mixed Convection in a Vertically Layered Fluid-Porous Medium Enclosure with Two Inner Rotating Cylinders.” **Journal of Porous Media**, Volume 20, pp. 491-511, 2017.
491. A. Alsabery, **A. J. Chamkha**, I. Hashim, and P.G. Siddheshwar “Effects of Nonuniform Heating and Wall Conduction on Natural Convection in a Square Porous Cavity Using LTNE Model.” **ASME Journal of Heat Transfer**, Volume 139, 122008, doi: 10.1115/1.4037087, 13 pages, 2017.
492. V. Rajesh, **A.J. Chamkha**, Ch. Sridevi and A.F. Al-Mudhaf, “A Numerical Investigation of Transient MHD Free Convective Flow of a Nanofluid over a Moving Semi-Infinite Vertical Cylinder.” **Engineering Computations**, Volume 34, pp. 1393-1412, 2017.
493. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “Analysis of Mixed Convection of Nanofluid in a 3D Lid-Driven Trapezoidal Cavity with Flexible Side Surfaces and Inner Cylinder.” **International Communications in Heat and Mass Transfer**, Volume 87, pp. 40-51, 2017.
494. S. Das, R.N. Jana and **A. J. Chamkha**, “Entropy Generation in an Unsteady MHD Channel Flow with Navier Slip and Asymmetric Convective Cooling.” **International Journal of Industrial Mathematics**, Volume 9, pp. 149-160, 2017.
495. E. Jamesahar, **A.J. Chamkha**, M. Ismael and M. Ghalambaz, and, “Fluid–structure interaction analysis of free convection in an inclined square cavity partitioned by a flexible impermeable membrane with sinusoidal temperature heating.” **Meccanica**, Volume 52, pp. 2685–2703, 2017.
496. M. Sabour, M. Ghalambaz, and **A.J. Chamkha**, “Natural Convection of Nanofluids in a Cavity: Criteria for Enhancement of Nanofluids.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 27, pp. 1504-1534, 2017.

497. T. Thumma, **A. J. Chamkha**, S. R. Sheri, “MHD Natural Convective Flow of Nanofluids past Stationary and Moving Inclined Porous Plate Considering Temperature and Concentration Gradients with Suction.” **International Journal of Numerical Methods for Heat and Fluid Flow**, Volume 27, pp. 1765-1794, 2017.
498. M. Ismael, E. Abu-Nada and **A.J. Chamkha**, “Mixed Convection in a Square Cavity Filled with CuO-Water Nanofluid Heated by Corner Heater.” **International Journal of Mechanical Sciences**, Volume 133, pp. 42-50, 2017.
499. M. Ghalambaz, A. Doostani, **A.J. Chamkha**, M. Ismael, “Melting of Nanoparticles-Enhanced Phase-Change Materials in an Enclosure: Effect of Hybrid Nanoparticles.” **International Journal of Mechanical Sciences**, Volume 134, pp. 85-97, 2017.
500. T. Tayebi and **A.J. Chamkha**, “Buoyancy-Driven Heat Transfer Enhancement in a Sinusoidally Heated Enclosure Utilizing Hybrid Nanofluid.” **Computational Thermal Sciences**, Volume 9, pp. 405-421, 2017.
501. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and Y. Ramarao, “Mixed Convective Heat Transfer of Immiscible Fluids in a Vertical Channel with Boundary Conditions of the Third Kind.” **Computational Thermal Sciences**, Volume 9, pp. 447-465, 2017.
502. N. Sandeep, **A.J. Chamkha**, and I.L. Animasaun, “Numerical Exploration of Magnetohydrodynamic Nanofluid Flow Suspended with Magnetite Nanoparticles.” **Journal of The Brazilian Society of Mechanical Sciences and Engineering**, Volume 39, pp. 3635-3644, 2017.
503. J.C. Umavathi, M. Sasso, **A.J. Chamkha** and A. Al-Mudhaf, “Convective Heat Transfer in a Vertical Rectangular Duct with Temperature Dependent Viscosity and Conductivity.” **Recent Patents on Mechanical Engineering**, Volume 10, pp. 224-241, 2017.
504. R. Roslan, M. Abdulhameed, I. Hashim, and A.J. Chamkha, “Non-Sinusoidal Waveform Effects on Heat Transfer Performance in Pulsating Pipe Flow.” **Alexandria Engineering Journal**, Volume 55, pp. 3309-3319, 2016.
505. M.K. Nayak, S. Shaw and **A.J. Chamkha**, “Radiative Non Linear Heat Transfer Analysis on Wire Coating from a Bath of Third-Grade Fluid.” **Thermal Science and Engineering Progress**, Volume 5, pp. 97-106, 2018.

#### **JOURNAL PUBLICATIONS ACCEPTED**

1. R. Gorla and **A.J. Chamkha**, “Natural Convective Boundary Layer Flow Over a Vertical Plate Embedded in a Porous Medium Saturated with a Non-Newtonian Nanofluid.” Accepted for publication in **International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena**, 2011.
2. S. Mukhopadhyay, K. Bhattacharyya and **A.J. Chamkha**, “Effects of Partial Slip and Variable Fluid Viscosity on Stagnation Point Flow Past a Stretching Sheet in the Presence of a Heat Source/Sink.” Accepted for publication in **Journal of Energy, Heat and Mass Transfer**, 2012.

3. D. Ramya, **A.J. Chamkha**, R. S. Raju, and J.A. Rao, “Effect of Velocity and Thermal Wall Slips on MHD Boundary Layer Viscous Flow and Heat Transfer of a Nanofluid over a Nonlinearly-Stretching Sheet: A Numerical Study.” Accepted for publication in **Propulsion and Power Research**, 2015.
4. A. Alsabery, **A. J. Chamkha**, H. Saleh, I. Hashim and B. Chanane, “Effect of Spatial Side-Wall Temperature Variation on Transient Natural Convection of a Nanofluid in a Trapezoidal Cavity.” Accepted for publication in **International Journal of Numerical Methods for Heat and Fluid Flow**, 2016.
5. T. Tayebi and **A.J. Chamkha**, “Free Convection Enhancement in an Annulus Between Horizontal Confocal Elliptical Cylinders Using Hybrid Nanofluids.” Accepted for publication in **Numerical Heat Transfer, Part A**, 2016.
6. K. Milani Shirvan, S. Mirzakhani, **A.J. Chamkha** and M. Mamourian, “Numerical Simulation and Sensitivity Analysis of Effective Parameters on Natural Convection and Entropy Generation in a Wavy Surface Cavity Filled with a Nanofluid Using RSM.” Accepted for publication in **Numerical Heat Transfer, Part A**, 2016.
7. S. Reddy and **A.J. Chamkha**, “Heat and Mass Transfer Flow of a Nanofluid over an Inclined Plate Under Enhanced Boundary Conditions with Magnetic Field and Thermal Radiation.” Accepted for publication in **Heat Transfer – Asian Research**, 2016.
8. **A.J. Chamkha**, I.V. Miroshnichenko and M. Sheremet, “Numerical Analysis of Unsteady Conjugate Natural Convection of Hybrid Water-Based Nanofluid in a Semi-Circular Cavity.” Accepted for publication in **ASME Journal of Thermal Science and Engineering Applications**, 2016.
9. A.M. Rashad, P.K. Kameswaran and **A.J. Chamkha**, “Radiation Effects on Natural Bioconvection Flow of a Nanofluid Containing Gyrotactic Microorganisms Past a Vertical Plate with Streamwise Temperature Variation.” Accepted for publication in **Journal of Nanofluids**, 2017.
10. F. Selimefendigil, M. Ismael and **A.J. Chamkha**, “Mixed Convection in Superposed Nanofluid and Porous Layers in Square Enclosure with Inner Rotating Cylinder.” Accepted for publication in the **International Journal of Mechanical Sciences**, 2017.
11. **A.J. Chamkha**, A.M. Rashad, M.A. Mansour, T. Armaghani and M. Ghalambaz, “Effects of Heat Sink and Source and Entropy Generation on MHD Mixed Convection of a Cu-Water Nanofluid in a Lid-Driven Square Porous Enclosure with Partial Slip.” Accepted for publication in **Physics of Fluids**, 2017.
12. L. Snoussi, N. Ouerfelli, X. Chesneau, **A.J. Chamkha**, F. Belgacem and A. Guizani, “Natural Convection Heat Transfer in a Nanofluid Filled U-Shaped Enclosure : Numerical Investigation.” Accepted for publication in **Heat Transfer Engineering**, 2017.
13. P. Gayathri and **A.J. Chamkha**, “Three Dimensional MHD Stagnation Point Flow of Al-Cu Alloy Suspended Water Based Nanofluid with Second order Slip and Convective Heating.” Accepted for publication in the **International Journal of Numerical Methods for Heat and Fluid Flow**, 2017.



14. Z. Boulahia, A. Wakif, **A.J. Chamkha** and R. Sehaqui, "Numerical Study of Natural and Mixed Convection in a Square Cavity Filled by a Cu-Water Nanofluid with Circular Heating and Cooling Cylinders." Accepted for publication in the **Mechanics and Industry**, 2017.
15. L. Snoussi, N. Ouerfelli, N. Vrinceanu, **A.J. Chamkha** and A. Guizani, "Numerical Simulation of Nanofluids for Improved Cooling Efficiency in a 3D Copper Micro Channel Heat Sink (MCHS)." Accepted for publication in **Physics and Chemistry of Liquids**, 2017.
16. **A.J. Chamkha**, I.V. Miroshnichenko and M. Sheremet, "Unsteady Conjugate Natural Convective Heat Transfer and Entropy Generation in a Porous Semi-Circular Cavity." Accepted for publication in **ASME Journal of Heat Transfer**, 2017.
17. A. Alsabery, **A. J. Chamkha**, H. Saleh and I. Hashim, "Natural Convection Flow of a Nanofluid in an Inclined Square Enclosure Partially Filled with a Porous Medium." Accepted for publication in **Scientific Reports**, 2017.
18. A. Al-Mudhaf, **A.J. Chamkha**, A.M. Rashad and M.M. Abdou, "Mixed Bioconvection Flow over a Wedge in Porous Media Saturated with a Nanofluid Containing both Nanoparticles and Gyrotactic Microorganisms." Accepted for publication in **Journal of Porous Media**, 2017.
19. A. Noghrehabadi, R. Mirzai, M. Ghalambaz, **A.J. Chamkha** and A. Ghanbarzadeh "Boundary Layer Flow Heat and Mass Transfer Study of Sakiadis Flow of Viscoelastic Nanofluids Using Hybrid Neural Network-Particle Swarm Optimization (HNNPSO)." Accepted for publication in **Thermal Science and Engineering Progress**, 2017.
20. A.A. Abdullah, F.S. Ibrahim, and **A. J. Chamkha**, "Non-Similar Solution of Unsteady Mixed Convection Flow near the Stagnation Point of a Heated Vertical Plate in a Porous Medium Saturated with a Nanofluid." Accepted for publication in **Journal of Porous Media**, 2017.
21. A. Zaib, M. M. Rashidi, **A. J. Chamkha**, and A.F. Al-Mudhaf, "Nonlinear Radiation Effect on Casson Nanofluid Past a Plate Immersed in Darcy-Brinkman Porous Medium with Binary Chemical Reaction and Activation Energy." Accepted for publication in **International Journal of Fluid Mechanics Research**, 2017.
22. M.V. Krishna, K. Jyothi, and **A. J. Chamkha**, "Heat and Mass Transfer on Unsteady MHD Oscillatory Flow of Second Grade Fluid through Porous medium Between Two Vertical Plates Fluctuating Heat Source/Sink and Chemical reaction." Accepted for publication in **International Journal of Fluid Mechanics Research**, 2017.

#### JOURNAL PUBLICATIONS SUBMITTED

1. **A. J. Chamkha**, M. A. Mansour and A. M. Aly, "Radiation and Chemical Reaction Effects on Unsteady Coupled Heat and Mass Transfer by Free Convection from a Vertical Plate Embedded in Porous Media." Submitted for publication in **International Journal of Fluid Mechanics Research**, 2012.

2. J.C. Umavathi, M.I. Liu, **A. J. Chamkha**, “Non-Darcian Effects for Buoyancy-Driven Flow and Heat Transfer in a Vertical Rectangular Duct.” Submitted for publication in **International Journal for Numerical Methods in Heat and Fluid Flow**, 2012.
3. J.C. Umavathi, J.P. Kumar and **A. J. Chamkha**, “Flow and Heat Transfer of Couple-Stress Permeable Fluid Sandwiched between Viscous Fluid Layers.” Submitted for publication in **Thermal Science journal**, 2012.
4. M. S. Alam, M. M. Rahman, M. A. Sattar and **A. J. Chamkha**, “Group Method Analysis of Steady Free Convective Heat and Mass Transfer Flow Past an Inclined Flat Plate with Thermophoresis.” Submitted for publication in **Progress in Computational Fluid Dynamics**, 2012.
5. P.M. Patil and **A.J. Chamkha**, “Free Convection Flow of a Polar Fluid Over a Vertical Plate at Uniform Heat and Mass Fluxes in Porous Media in the Presence of Chemical Reaction.” Submitted for publication in **Computational Thermal Sciences**, 2012.
6. Sahin Ahmed and **A.J. Chamkha**, “Unsteady Heat and Mass Transfer from a Non-Isothermal Impulsively-Started Vertical Plate Embedded in a Porous Medium with Radiation Effects.” Submitted for publication in **International Journal of Numerical Methods for Heat and Fluid Flow**, 2011.
7. M. Rashidi, M.T. Rastegari and **A.J. Chamkha**, “Homotopy Analysis Method for Thermal Boundary Layer on a Stretched Surface of a Non-Newtonian Fluid.” Submitted for publication in **Journal of Non-Newtonian Fluid Mechanics**, 2011.
8. M.M. Abdou, E.R. Al-Zahar and **A.J. Chamkha**, “MHD Mixed Convection Stagnation-Point Flow of a Viscoelastic Fluid Towards a Stretching Sheet in Porous Media with Non-Uniform Heat Source/Sink, Radiation and Viscous Dissipation.” Submitted for publication in **Journal of Energy, Heat and Mass Transfer**, 2011.
9. M.A. Waheed and **A.J. Chamkha**, “Mixed Convection Heat Transfer in a Rectangular Enclosure Filled with Non-Darcian Porous Media Divided by a Heated Moving Plate.” Submitted for publication in **Progress in Computational Fluid Dynamics**, 2015.
10. G. Revathi, P. Saikrishnan, **A. J. Chamkha**, “Unsteady Flow over a Rotating Sphere with Non-Uniform Mass Transfer and Variable Fluid Properties.” Submitted for publication in **Journal of Hydrodynamics, Ser. B**, 2013.
11. V. Rajesh, **A.J. Chamkha**, Ch. Sridevi and S.V.K. Varma, “Heat Source and Chemical Reaction Effects on MHD Free Convection Flow Past an Inclined Plate with Newtonian Heating.” Submitted for publication in **Heat Transfer Research**, 2012.
12. G. Singh and **A.J. Chamkha**, “Flow and Heat Transfer Over a Moving Vertical Cylinder in Uniform Parallel Free Stream.” Submitted for publication in **Heat Transfer Research**, 2012.
13. J.P. Kumar, J.C. Umavathi and **A.J. Chamkha**, “Dispersion in a Horizontal Channel Containing Electrically Conducting and Viscous Immiscible Fluids with and without Chemical Reactions.” Submitted for publication in **Canadian Journal of Chemical Engineering**, 2013.

14. **A. J. Chamkha**, S. Abbasbandy, and A.M. Rashad, "Unsteady Mixed Convection Flow of a Nanofluid Over a Stretching Surface in a Porous Medium with Internal Heat Generation or Absorption." Submitted for publication in **Canadian Journal of Physics**, 2013.
15. R. B. Vijaya, B. Mallikarjuna, **A. J. Chamkha**, and D.R.V. Prasada Rao, "Convective MHD Heat and Mass Transfer from a Vertical Plate in Porous Media with Chemical Reaction and Radiation Absorption." Submitted for publication in **International Journal of Numerical Methods for Heat and Fluid Flow**, 2013.
16. C.S. Vishalakshi, **A.J. Chamkha**, B.J. Gireesha and C.S. Bagewadi, "Three Dimensional Couette Flow of an Unsteady Dusty Fluid and Heat Transfer through a Porous Medium with Variable Permeability." Submitted for publication in **Applied Mathematical Modelling**, 2014.
17. S.K. Mishra, P.K. Tripathy and **A. J. Chamkha**, "CFD Modeling of Compressible Two-Phase Gas-Particle Boundary Layer Flow." Submitted for publication in **Alexandria Engineering Journal**, 2015.
18. V. Rajesh, **A. J. Chamkha** and Ch. Sridevi, "Finite Element Analysis of Heat Source and Chemical Reaction Effects on Unsteady MHD Boundary-Layer Accelerated Dissipative Flow Past an Inclined Porous Surface." Submitted for publication in **Latin American Applied Research**, 2013.
19. B. Mallikarjuna and **A. J. Chamkha**, "Heat and Mass Transfer Flow Past a Vertical Plate in a Rotating System with Heat Source and High Order Chemical Reaction." Submitted for publication in **Canadian Journal of Chemical Engineering**, 2013.
20. A.G. Vijayakumar, **A. J. Chamkha**, K. R. Babu and S.V.K. Varma, "Effects of Mass Transfer on Chemically Reacting Fluid Flow past an Impulsively Started Infinite Vertical Plate with Newtonian Heating." Submitted for publication in **Nonlinear Analysis: Modelling and Control**, 2013.
21. V. Rajesh, **A. J. Chamkha** and Ch. Sridevi, "Soret Effects on MHD Boundary-Layer Free Convection Flow Past an Inclined Surface with Variable Temperature Through a Porous Medium." Submitted for publication in **Heat Transfer-Asian Research**, 2013.
22. B.J. Gireesha, **A.J. Chamkha**, and G.M. Pavithra, "Flow and Heat Transfer of a Fluid-Particle Suspension Past a Vertical Exponentially Stretching Surface with Internal Heat Generation/Absorption." Submitted for publication in **Journal of Hydrodynamics, Ser. B**, 2013.
23. J.C. Umavathi, **A. J. Chamkha**, and M. Shekar, "Free Convection Flow of an Electrically Conducting Micropolar Fluid Between Parallel Porous Vertical Plates using DTM." Submitted for publication in **Journal of Applied and Computational Mechanics**, 2017.
24. B.J. Gireesha, **A. J. Chamkha** and G.K. Rajesh, "Natural Convection Heat Transfer of a Dusty Fluid Over a Stretching Vertical Surface with Non-Uniform Heat Source/Sink." Submitted for publication in **International Communications in Heat and Mass Transfer**, 2013.

25. S. Das, R.N. Jana and **A. J. Chamkha**, “Transient Flow Past a Moving Vertical Plate with Ramped Heat and Mass Fluxes.” Submitted for publication in **Afrika Matematika**, 2017.
26. V. Rajesh, **A.J. Chamkha**, M.P. Mallesh and J. Al-Humoud, “Effects of Radiation and Surface Temperature Oscillation on Free Convective Flow Past a Moving Semi-Infinite Vertical Cylinder with Mass Transfer.” Submitted for publication in **ASME Journal of Applied Mechanics**, 2014.
27. A.G. Vijayakumar, **A. J. Chamkha** and S.V.K. Varma, “Effect of the Chemical Reaction and Radiation Absorption on Unsteady Free Convection Flow Past a Vertical Moving Plate in an Aligned Magnetic Field.” Submitted for publication in **Journal of Applied Fluid Mechanics**, 2014.
28. S.K. Jena, S.K. Mahapatra and **A. J. Chamkha**, “Free Convection of a Non-Newtonian Ostwald-De Waele Fluid inside a Differentially-Heated Triangular Cavity.” Submitted for publication in **International Journal of Heat and Mass Transfer**, 2014.
29. G. Awgichew, G. Radhakrishnamacharya and **A.J. Chamkha**, “Flow of Two-Layered Immiscible Fluids in a Stenosed Channel with a Slip Condition.” Submitted for publication in **Canadian Journal of Physics**, 2014.
30. G. Ravi Kiran, G. Radhakrishnamacharya and **A.J. Chamkha**, “Dispersion of a Solute in Peristaltic Flow of a Jeffrey Fluid Through a Porous Medium.” Submitted for publication in **Journal of Porous Media**, 2015.
31. B. Mallikarjuna, **A. J. Chamkha**, and R. Bhuvanavijaya, “Effect of Thermophoresis on Heat and Mass Transfer by Free and Mixed Convection Flow Along a Sinusoidal Wavy Surface.” Submitted for publication in **Ain Shams Engineering Journal**, 2014.
32. **A. J. Chamkha**, A.M. Rashad and S.M.M. El-Kabeir, “Unsteady Mixed Convection Flow of a Nanofluid Near the Stagnation Point on a Vertical Surface.” Submitted for publication in **Canadian Journal of Chemical Engineering**, 2014.
33. M.S. Selamat, H. Saleh, I. Hashim and **A. J. Chamkha**, “Unsteady Natural Convection in a Partitioned Square Enclosure Filled with a Fluid-Saturated Porous Medium Under Inclined Magnetic Field and Heat Generation.” Submitted for publication in **Numerical Heat Transfer, Part A**, 2014.
34. S. Das, B.C. Sarkar, R.N. Jana and **A. J. Chamkha**, “Hall Effects on MHD Free Convection Boundary Layer Flow Past an Inclined Flat Plate.” Submitted for publication in **Journal of Aerospace Propulsion and Power**, 2017.
35. S. Das, B.C. Sarkar, R.N. Jana and **A. J. Chamkha**, “Hall Effects on Rotating MHD Channel Flow in the Presence of an Inclined Magnetic Field.” Submitted for publication in **Yanbu Journal of Engineering and Science**, 2017.
36. G. Sreedevi, R.R. Rao, **A. J. Chamkha** and D.R.V.P. Rao, “Soret and Dufour Effects on Double-Diffusive Heat Transfer Flow in a Rectangular Duct with Radiation Absorption and Non-linear Density-Temperature Relation.” Submitted for publication in **International Journal of Thermal Sciences**, 2014.

37. B.S. Bhadauria, P. Kiran and **A. J. Chamkha**, “Study of Heat Transport in a Temperature-Dependent Viscosity Liquid Under g-Jitter and Internal Heating Effects.” Submitted for publication in **Applied Mathematics and Mechanics**, 2014.
38. S. Das, R.N. Jana and **A. J. Chamkha**, “Transient Hydromagnetic Free Convective Flow in a Heated Vertical Rotating Channel in the Presence of an Inclined Magnetic Field.” Submitted for publication in **Alexandria Engineering Journal**, 2017.
39. S. Das, R.N. Jana and **A. J. Chamkha**, “Hall Effects on Unsteady MHD Oscillatory Couette Flow in a Rotating System.” Submitted for publication in **Chinese Journal of Chemical Engineering**, 2017.
40. J.P. Kumar, J.C. Umavathi, **A.J. Chamkha** and Y. Ramarao, “Magneto-Convection of Immiscible Fluids in a Vertical Channel Using Robin Boundary Conditions.” Submitted for publication in **International Journal of Heat and Mass Transfer**, 2014.
41. A. Mahdy and **A.J. Chamkha**, “Diffusion of Chemically Reactive Species of a Maxwell Fluid Due to an Unsteady Stretching Sheet with Slip Effect.” Accepted for publication in **Canadian Journal of Physics**, 2014.
42. M. Ghalambaz, M. Ghalambaz, **A.J. Chamkha**, and M. Edalatifar, “A Unique Analytical Solution for Free Convection Heat Transfer of Nanofluids Over a Vertical Flat Plate Embedded in a Porous Medium.” Submitted for publication in **Advanced Powder Technology**, 2014.
43. M. Ghalambaz, **A.J. Chamkha**, Mehdi. Ghalambaz, M. Edalatifar “Analysis of Boundary Layer Flow of Nanofluids Over a Vertical Flat Plate with Heat and Mass Transfer: A Comparison Between Homogeneous and Non-Homogenous Models.” Submitted for publication in **Advanced Powder Technology**, 2014.
44. J.C. Umavathi, J.P. Kumar and **A.J. Chamkha**, “Effect of Electric Field on Dispersion of a Solute in an MHD Flow Through a Vertical Channel with and without Chemical Reaction.” Submitted for publication in **International Communications in Heat and Mass Transfer**, 2014.
45. M. Ghalambaz, **A.J. Chamkha**, M. Ghalambaz and M. Edalatifar, “Dynamic Pull-in Instability of Nano-Actuators in the Presence of a Dielectric Layer.” Submitted for publication in **Archives of Civil and Mechanical Engineering**, 2014.
46. M. Ghalambaz, M. Rabeti, M. Ghalambaz, and **A.J. Chamkha**, “Analytical Solution of Free Convection Heat Transfer of Nanofluids Over a Vertical Cone Embedded in a Porous Medium.” Submitted for publication in **Advanced Powder Technology**, 2014.
47. V. Rajesh, **A.J. Chamkha**, and M.P. Mallesh, “Heat Generation Effects on Transient MHD Nanofluid Flow Past an Impulsively-Started Vertical Cylinder with Variable Surface Temperature.” Submitted for publication in **Communications in Nonlinear Science and Numerical Simulation**, 2015.
48. M. Madhu, N. Kishan and **A.J. Chamkha**, “Unsteady Flow of a Maxwell Nanofluid over a Stretching Surface in the Presence of MHD and Thermal

- Radiation Effects.” Submitted for publication in **Propulsion and Power Research**, 2015.
49. A. Alsabery, **A. J. Chamkha**, H. Saleh and I. Hashim, “Darcian Natural Convection in a Trapezoidal Cavity Partly Filled with Porous Layer and Partly with Nanofluid Layer.” Submitted for publication in **Journal of the Taiwan Institute of Chemical Engineers**, 2015.
  50. S. Das, S.K. Guchhait, R.N. Jana and **A. J. Chamkha**, “Unsteady Hydrodynamic Slip Flow and Heat Transfer Past a Vertical Plate with a Ramped Wall Temperature.” Submitted for publication in **Chinese Journal of Physics**, 2017.
  51. S. Das, R.N. Jana and **A. J. Chamkha**, “Hall and Ion-Slip Effects on Hydromagnetic Couette Flow and Heat Transfer in a Rotating Environment.” Submitted for publication in **Computational Thermal Sciences**, 2017.
  52. S. Das, H.K. Mandal, R.N. Jana and **A. J. Chamkha**, “Optically Thin Radiating Non-Gray Fluid Flow and Heat Transfer in a Vertical Channel in Presence of First-Order Chemical Reaction.” Submitted for publication in **Afrika Mathematica**, 2017.
  53. R. Roslan, M. Abdulhameed, I. Hashimand and **A.J. Chamkha**, “Non-Sinusoidal Waveforms Effects on Heat Transfer Performance in Pulsating Pipe Flow.” Submitted for publication in **International Journal of Engineering Science**, 2015.
  54. S. Reddy and **A.J. Chamkha**, “Natural Convection Flow over a Horizontal Circular Cylinder Saturated by Nanofluid.” Submitted for publication in **Journal of Thermophysics and Heat Transfer**, 2015.
  55. S. Saleem, S. Nadeem, **A. J. Chamkha**, and M.M. Rashidi, “On Unsteady Third-Grade Fluid Flow about a Rotating Cone with Heat and Mass Transfer.” Submitted for publication in **Acta Mechanica**, 2015.
  56. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “MHD Mixed Convection and Entropy Generation of Nanofluid Filled Lid Driven Cavity Under the Influence of Inclined Magnetic Fields Imposed to its Upper and Lower Diagonal Triangular Domains.” Submitted for publication in the **Journal of Magnetism and Magnetic Materials**, 2015.
  57. L.K. Malla, S.K. Jena, **A. J. Chamkha** and S.K. Mahapatra, “Mixed Convection Inside a Fluid-Porous Composite Cavity with Centrally Rotating Mixture Cylinder.” Submitted for publication in **International Journal of Heat and Mass Transfer**, 2015.
  58. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “Mixed Convection Due to Rotating Cylinder in an Internally Heated and Flexible Walled Cavity Filled with SiO<sub>2</sub>-Water Nanofluids: Effect of Nanoparticle Shape.” Submitted for publication in the **International Communications in Heat and Mass Transfer**, 2015.
  59. F. Selimefendigil, H. Oztop and **A.J. Chamkha**, “MHD Mixed Convection in a Nanofluid Vertical Filled Lid-Driven Cavity Having a Flexible Fin Attached to its Upper Wall.” Submitted for publication in the **Computers and Fluids**, 2015.
  60. M.M. Vishwanath, G.K. Ramesh and **A.J. Chamkha**, “Experimental Investigations for the Thermal Characteristics of a Fluidized Bed Cooling Tower at Higher Flow

- Rates.” Submitted for publication in **Journal of Dispersion Science and Technology**, 2015.
61. A. Alsabery, **A. J. Chamkha**, H. Saleh and I. Hashim, “Natural Convection in an Inclined Square Cavity Partially Filled with Porous Media and Saturated by a Nanofluid with Sinusoidal Temperature Variations on Two Sidewalls.” Submitted for publication in **Numerical Heat Transfer, Part A**, 2015.
  62. M. Sheikholeslami and **A.J. Chamkha**, “Heat and Mass Transfer of a Nanofluid Flow between Contracting or Expanding Rotating Disks Using Cylindrical Coordinates.” Submitted for publication in the **Computational Thermal Sciences**, 2017.
  63. T. Tayebi, **A.J. Chamkha**, and M. Djezzar, “Natural Convection of CNT-Water Nanofluid in an Annular Space Between Confocal Elliptic Cylinders with Constant Heat Flux on Inner Wall.” Submitted for publication in **Scientia Iranica**, 2017.
  64. I.V. Miroshnichenko, M. Sheremet, and **A.J. Chamkha**, “Turbulent Natural Convection Combined with Surface Thermal Radiation in a Square Cavity with Local Heater.” Submitted for publication in **ASME Journal of Heat Transfer**, 2017.
  65. F. Mabood, S. M. Ibrahim and **A.J. Chamkha**, “Radiation Effects on MHD Williamson Nanofluid Flow over a Heated Surface with Heat Source.” Submitted for publication in **Propulsion and Power Research**, 2016.
  66. M. Sheikholeslami, **A.J. Chamkha** and P. Rana, “Combined Thermophoresis and Brownian Motion Effects on Nanofluid Free Convection Heat Transfer in an L-Shaped Enclosure.” Submitted for publication in the **Chinese Journal of Physics**, 2017.
  67. **A.J. Chamkha**, M.A. Ismael, M.A. Mansour, and T. Salah, “MHD Natural Convection of Localized Heat Source/Sink in Al<sub>2</sub>O<sub>3</sub>-Cu/Water Hybrid Nanofluid-Filled Square Cavity.” Submitted for publication in **International Journal of Heat and Mass Transfer**, 2016.
  68. T. Tayebi and **A.J. Chamkha**, “Natural Convection Enhancement in an Eccentric Horizontal Cylindrical Annulus using Hybrid Nanofluids.” Submitted for publication in **Numerical Heat Transfer, Part A**, 2017.
  69. S. Parvin, S. Ahmed and **A. J. Chamkha**, “Effect of Solar Irradiation and Mass Flow Rate on Forced Convective Heat Transfer through a Nanofluid-Based Direct Absorption Solar Collector.” Submitted for publication in **Solar Energy**, 2016.
  70. A. Bouzerzour, T. Tayebi, A.J. Chamkha and M. Djezzar, “Orientation Effects on Natural Convection Nanofluid Flow in an Annular Space Between Confocal Elliptic Cylinders.” Submitted for publication in **Physica B: Condensed Matter**, 2017.
  71. K. Azzouz, T. Tayebi and **A.J. Chamkha**, and M. Djezzar, “Transient Natural Convection in an Inclined Enclosure Filled with a Nanofluid with Oscillating Thermal Boundary Condition.” Submitted for publication in **Numerical Heat Transfer, Part A**, 2016.

72. M. Sheikholeslami and **A.J. Chamkha**, “MHD Free Convection of a  $\text{Fe}_3\text{O}_4$ -Water Nanofluid in a Sinusoidal Annulus in the Presence of Thermal Radiation.” Submitted for publication in the **Chinese Journal of Physics**, 2017.
73. J.C. Umavathi, **A. J. Chamkha**, and Ali Al-Mudhaf, “Effects of Variable Thermal Conductivity of a Water-Based Nanofluid on Natural Convection Heat Transfer Enhancement.” Submitted for publication in **Computational Thermal Sciences**, 2017.
74. J. Rajakumar, P. Saikrishnan and **A.J. Chamkha**, “Non-Similar Solution for Steady MHD Mixed Convection Flow over a Yawed Cylinder with Non-Uniform Slot Suction and Injection.” Submitted for publication in **Scientia Iranica**, 2017.
75. U.K. Ghoshal, S. Bhattacharyya and **A.J. Chamkha**, “Mixed Convection Flow around a Heated Spherical Hydrophobic Particle.” Submitted for publication in **Propulsion and Power Research**, 2017.
76. U.K. Ghoshal, S. Bhattacharyya and **A.J. Chamkha**, “Transport of a Heated Hydrophobic Spherical Particle through Porous Medium.” Submitted for publication in **Journal of Porous Media**, 2017.
77. **A.J. Chamkha** and F. Selimefendigil, “Analysis of a Photovoltaic Thermal Solar Collector with  $\text{SiO}_2$ -Water Nanofluid.” Submitted for publication in **Renewable Energy**, 2017.
78. F. Selimefendigil and **A.J. Chamkha**, “Mixed Convection in a Lid-Driven Cavity Filled with Single and Multiple-Walled Carbon Nanotubes Nanofluid Having an Inner Elliptic Obstacle.” Submitted for publication in the **International Communications in Heat and Mass Transfer**, 2017.
79. M. Sheikholeslami and **A.J. Chamkha**, “Numerical Simulation of Thermal Radiation Effect on Nanofluid EHD Convective Heat Transfer in a Porous Enclosure.” Submitted for publication in the **Computational Thermal Sciences**, 2017.
80. A.A. Abdullah, S. S. Al-Ahmady and **A.J. Chamkha**, “Thermosolutal Convection in a Horizontal Fluid Layer Affected by Rotation.” Submitted for publication in the **Thermal Science**, 2017.
81. A. Al-Mudhaf, **A.J. Chamkha**, A.M. Rashad, M.A. Mansour and A.I. Alsabery, “MHD Mixed Convection of Ferrofluids in Enclosures with Partial Slip.” Submitted for publication in **Case Studies in Thermal Engineering**, 2017.
82. A. Al-Mudhaf, A.M. Rashad, S.E. Ahmed, **A.J. Chamkha** and S.M.M. EL-Kabeir, “Soret and Dufour Effects on Unsteady Double Diffusive Natural Convection in Porous Trapezoidal Enclosures.” Submitted for publication in **International Journal of Mechanical Sciences**, 2017.
83. A. Ababaeia, M. Abbaszadeha, A. Arefmanesha and **A.J. Chamkha**, “Numerical Simulation of Double-Diffusive Mixed Convection and Entropy Generation in a Lid-Driven Trapezoidal Enclosure with a Heat Source.” Submitted for publication in **International Journal of Mechanical Sciences**, 2017.
84. B. Mahanthesh, **A.J. Chamkha**, P.B. S. Kumar and B.J. Giresha, “Effects of Thermal and Exponential Space-Dependent Heat Source on Two-Phase Nonlinear



Radiated Flow of a Dusty Casson Liquid over a Stretching Surface.” Submitted for publication in **Propulsion and Power Research**, 2017.

#### **PUBLISHED BOOKS**

1. V. Rajesh, **A.J. Chamkha**, and A.F. Al-Mudhaf, Modeling and Computation of Boundary Layer Free Convective Flows: Laminar Viscous Incompressible Flows with Heat and Mass Transfer. **LAP Lambert Academic Publishing, ISBN: 978-3-659-93617-3**, pp. 1-66, 2016.
2. V. Rajesh and **A.J. Chamkha**, Investigation of MHD Free Convective Boundary-Layer Flows: Analytical and Numerical Study. **LAP Lambert Academic Publishing, ISBN: 978-3-659-96149-6**, pp. 1-107, 2016.

#### **CONFERENCE PUBLICATIONS**

1. **A.J. Chamkha** and J. Peddieson, "Exact Solutions for the Two-Phase Asymptotic Suction Profile", **Developments in Theoretical and Applied Mechanics**, Volume 14, pp. 215-222, 1988.
2. **A.J. Chamkha** and J. Peddieson, "Boundary-Layer Flow of Particle-Fluid Suspension Past a Flat Plate", **Developments in Mechanics**, Volume 15, pp. 315-316, 1989.
3. **A.J. Chamkha** and J. Peddieson, "The Asymptotic Suction Profile For a Particulate Suspension", **Developments in Theoretical and Applied Mechanics**, Volume 15, pp. 43-50, 1990.
4. **A.J. Chamkha** and J. Peddieson, "Boundary-Layer Theory For a Particulate Suspension With a Finite Volume Fraction". Engineering Science Preprint Number 27.90005, 8 pages, 1990.
5. **A.J. Chamkha** and J. Peddieson, "Unsteady Dusty-Gas Flow With Suction", Engineering Science Preprint Number 27, 8 pages, 1990.
6. **A.J. Chamkha** and J. Peddieson, "Boundary-Layer Flow of a Particle-Fluid Suspension", **Computational Mechanics and Experimental Measurements V**, pp. 15-25, 1991.
7. **A.J. Chamkha**, "Exact Solution for Unsteady Hydromagnetic Dusty-Gas Flow," **Proceedings of the 13th Canadian Congress of Applied Mechanics**, Volume 2, pp. 476-477, 1991.
8. **A.J. Chamkha**, "Unsteady Hydromagnetic Flow of a Particulate Suspension," **Developments in Mechanics**, Volume 16, pp. 493-494, 1991.
9. **A.J. Chamkha** and J. Peddieson, "An Investigation of the Flat Plate Boundary Layer for a Suspension", **Proceedings of the 13th Canadian Congress of Applied Mechanics**, Volume 2, pp. 474-475, 1991.
10. **A.J. Chamkha**, "Suspension of Particles in Power-Law Fluids," **Developments in Mechanics**, Volume 16, pp. 491-492, 1991.

11. **A.J. Chamkha**, "Numerical Investigation for Hydromagnetic Particle-Fluid Flow with Nonuniform Particle-Phase Density Distribution," Engineering Science Preprint Number 28.91028, 10 pages, 1991.
12. **A.J. Chamkha**, "Series Solution For Unsteady Hydromagnetic Two-Phase Poiseuille Flow," Engineering Science Preprint Number 28.91029, 10 pages, 1991.
13. **A.J. Chamkha**, "Thermal Boundary Layer for Flow of a Particulate Suspension Over a Flat Plate," **Developments in Theoretical and Applied Mechanics**, Volume 16, pp. II-4.24 - II-4.30, 1992.
14. **A.J. Chamkha** and J. Peddieson, "The Asymptotic Suction Profile For a Power-Law Dusty Gas", Tenth Canadian Symposium on Fluid Dynamics, pp. 32-33, 1992.
15. **A.J. Chamkha** and J. Peddieson, "Flat Plate Boundary Layer Solutions for a Particulate Suspension With a Finite Volume Fraction", **Developments in Theoretical and Applied Mechanics**, Volume 16, pp. II-4.1 - II-4.7, 1992.
16. M. Allaham, J. Peddieson and **A.J. Chamkha**, "Continuum Mechanics Modeling of Filtration", Tenth Canadian Symposium on Fluid Dynamics, pp. 5-6, 1992.
17. M. Allaham, J. Peddieson and **A.J. Chamkha**, "A Simulation Method for Collection Efficiencies of Thin Filters", **Advances in Filtration and Separation Technology**, Volume 6, pp. 552-555, 1992.
18. **A.J. Chamkha** and J. Peddieson, "Some Effects of Artificial Diffusivity and Viscosity on Numerical Solutions of Two Phase Flow Problems", **Proceedings of the Seventh IMACS International Conference on Computer Methods for Partial Differential Equations**, pp. 103-108, 1992.
19. **A.J. Chamkha**, P. Herman and Z. Jiang, "Multi-Dimensional Modeling of an Air-Manifold", Fluent Users Group Meeting Proceedings, pp. 272-284, 1992.
20. Z. Jiang and **A.J. Chamkha**, "Study of Flow Through Pleated Filters", Fluent Users Group Meeting Proceedings, pp. 285-295, 1992.
21. **A.J. Chamkha**, "Poiseuille Two-Phase Flow With Suction and Injection," **Developments in Theoretical and Applied Mechanics**, Volume 16, pp. II - 4.16 - II - 4.23, 1992.
22. J. Peddieson and **A.J. Chamkha**, "Stability of a One Dimensional Fluidized Bed". Presented at the 30<sup>th</sup> Annual Technical Meeting of The Society of Engineering Science, p. 253, 1993.
23. **A.J. Chamkha** and J. Peddieson, "A Numerical Method for Filtration Modeling", **Advances in Filtration and Separation Technology**, Volume 7, pp. 5-8, 1993.
24. **A.J. Chamkha**, "Mathematical Modelling for Air Filtration," Proceedings of the American Filtration and Separation Society Meeting on Air Filtration, pp. 17-23, 1994.
25. M. Allaham, J. Peddieson and **A.J. Chamkha**, "Method of Characteristics Solutions for Filtration Problems", **Advances in Filtration and Separation Technology**, Volume 8, pp. 178-181, 1994.

26. **A.J. Chamkha**, "Transient Flow of a Particulate Suspension in Circular Pipes," **Advances in Filtration and Separation Technology**, Volume 8, pp. 170-177, 1994.
27. **A.J. Chamkha**, "Flow of a Hydromagnetic Suspension in a Channel Due to an Oscillating Pressure Gradient." Presented at the 12<sup>th</sup> Science Meeting, Beirut, Lebanon, 1994.
28. **A.J. Chamkha**, "Numerical Solution for a Flow of a Non-Newtonian Particulate Suspension Over a Porous Plate," Proceeding of the **First LAAS International Conference on Computer Simulation**, pp. 441-446, 1995.
29. **A.J. Chamkha**, "Steady Non-Newtonian Fluid Flow in a Porous Medium Channel," **Advances in Filtration and Separation Technology**, Volume 9, pp. 362-370, 1995.
30. **A.J. Chamkha**, "Closed-Form Solutions For Unsteady Two-Phase Flow in a Channel," **Advances in Filtration and Separation Technology**, Volume 9, pp. 349-361, 1995.
31. **A.J. Chamkha**, "Transient Hydromagnetic Fluid-Particle Flow in Pipes due to Sinusoidal Pressure Gradient." Proceedings of the Society of Engineering Science, pp. 93-94, 1995.
32. **A.J. Chamkha**, "Unsteady Hydromagnetic Natural Convection in a Fluid-Saturated Porous Medium Channel," **Advances in Filtration and Separation Technology**, Volume 10, pp. 369-375, 1996.
33. **A.J. Chamkha**, "Hydromagnetic Suspension Flow in a Channel Due to an Oscillating Pressure Gradient," **Advances in Filtration and Separation Technology**, Volume 10, pp. 354-362, 1996.
34. K. Khanafer and **A.J. Chamkha**, "Particulate Diffusion and Inertial Transport in Compressible Boundary-Layer Flow of a Suspension". **Advances in Filtration and Separation Technology**, Volume 10, pp. 45-54, 1996.
35. H. Ramadan and **A.J. Chamkha**, "Natural Convection for a Particulate Suspension", Presented at the 33rd annual meeting of the Society of Engineering Science, 1996.
36. **A.J. Chamkha** and T. Al-Sahhaf, "Mathematical Modelling for Detachment of Particles from a Contaminated Porous Medium". **Advances in Filtration and Separation Technology**, Volume 11, pp. 418-424, 1997.
37. K. Khanafer and **A.J. Chamkha**, "Hydromagnetic Natural Convection in Enclosures Filled with a Uniform Porous Medium". **Advances in Filtration and Separation Technology**, Volume 11, pp. 23-32, 1997.
38. **A.J. Chamkha**, "Time-Dependent Two-Phase Flow in Circular Pipes." **Advances in Filtration and Separation Technology**, Volume 11, pp. 434-444, 1997.
39. **A.J. Chamkha**, "Combined Particle-Phase Diffusive and Viscous Effects on the Flat Plate Compressible Boundary Layer of a Two-Phase Suspension". Presented at the 7th International Symposium on Gas-Particle Flows, 1997.

40. **A.J. Chamkha**, "Continuum Air Filtration Modelling". Presented at the American Filtration and Separation Society, Dixie Chapter, October, 1997.
41. K. Khanafer, and **A.J. Chamkha**, "Hydromagnetic Natural Convection in a Square Variable Porous Medium-Filled Enclosure". **Advances in Filtration and Separation Technology**, Volume 12, pp. 14-26, 1998.
42. **A.J. Chamkha**, "Hydromagnetic Dusty-Gas Boundary-Layer Flow with Variable Properties Past a Non-Isothermal Flat Plate". **Advances in Filtration and Separation Technology**, Volume 12, pp. 240-247, 1998.
43. **A.J. Chamkha**, T. Sahhaf, and J. Peddieson, "Mathematical Modelling for Particulate Cleaning from a Contaminated Porous Medium". **Advances in Filtration and Separation Technology**, Volume 12, pp. 602-611, 1998.
44. Abdul Rahim A. Khaled, and **A.J. Chamkha**, "Non-Similar Solutions for Coupled Heat and Mass Transfer by Natural Convection from a Surface Embedded in a Porous Medium". Proceeding of the International Conference On Energy Research & Development, Volume 2, pp. 1122-1132, 1998.
45. **A.J. Chamkha**, "Effect of Slag Layers on Flow and Heat Transfer Related to Coal-Fired Magneto-Hydrodynamic Generators". Presented at the Fifteenth Annual International Pittsburgh Coal Conference, 1998.
46. **A.J. Chamkha**, "The Effect of Electromagnetic Field on Velocity and Temperature Profiles of Two-Immiscible Fluids in an Inclined Porous Medium Channel". **Advances in Filtration and Separation Technology**, Volume 13a, pp. 166-171, 1999.
47. **A.J. Chamkha**, "Flow Distribution of a Binary Air-Particle Mixture in a Porous Enclosure with Heat Generation or Absorption Effects". **Advances in Filtration and Separation Technology**, Volume 15, pp. 1-12, 2001.
48. M. Al-Subaie and **A.J. Chamkha**, "Buoyancy-Induced Flow of a Viscous Particulate Suspension Through a Channel". Second International Conference on Energy Research & Development, Volume II, pp. 1031-1047, 2002.
49. **A.J. Chamkha** and K. Khanafer, "Mixed Convection Flow within a Horizontal Concentric Annulus Filled with a Porous Medium for a Cooled Outer Cylinder." **Presented at the AFS 15<sup>th</sup> Annual Technical Conference and Exposition**, pp. 1-13, 2002.
50. H.S. Takhar, **A.J. Chamkha** and O.A. Beg, "A Numerical Investigation of Buoyancy-Induced Radiative Convection Heat Transfer of an Optically-Dense Fluid in a Porous Continuum with Thermal Conductivity and Non-Darcy Effects Using Rosseland's Model." **Eurotherm Seminar nr. 73** "Computational radiation in participating media," April, 15-17, Mons, Belgium, 2003.
51. **A.J. Chamkha** and K. Khanafer, "Convection in a Trapezoidal Porous Medium Enclosure for High Temperature Applications." Presented at the **World Filtration Congress 9**, April 19-22, New Orleans, 2004.
52. J.C. Umavathi, M.S. Malashetty, **A.J. Chamkha** and A. Al-Mudhaf, "Free Convection Flow of a Couple Stress Fluid in a Vertical Channel." Presented at the **International Mechanical Engineering Conference**, Kuwait, 2004.

53. J.C. Umavathi, **A.J. Chamkha**, A. Al-Mudhaf, and M.H. Manjula “Convective Flow of Two Immiscible Viscous and Couple Stress Fluids Through a Vertical Channel.” Presented at the **International Mechanical Engineering Conference**, Kuwait, 2004.
54. F. Abdulgafoor and **A.J. Chamkha**, “Double-Diffusive Convection in a Non-Darcian Porous Medium Enclosure in the Presence of Heat Generation or Absorption.” Presented at the **International Mechanical Engineering Conference**, Kuwait, 2004.
55. A. Al-Mudhaf and **A.J. Chamkha**, “Numerical Modeling of Solute Transport in Porous Medium with Spatially-Dependent Dispersion and First-Order Chemical Reaction.” Presented at the **2005 Annual Meeting of the American Filtration and Separation Society**, April 10-13, Atlanta, Georgia, 2005.
56. **A.J. Chamkha** and A. Al-Mudhaf, “Thermo-Solutal Convection in an Inclined Porous Cavity in the Presence of Heat Generation or Absorption Effects.” Presented at the **Eleventh International Symposium on the Dynamics of Rotating Machinery (ISROMAC-11)**, February 26-March 2, Hawaai, USA, 2006.
57. A. Al-Mudhaf and **A.J. Chamkha**, “Numerical Modeling of Filtration with Scale Dependent Diffusion.” Presented at the **2006 Annual Meeting of the American Filtration and Separation Society**, May 8-11, Chicago, Illinois, 2006.
58. **A.J. Chamkha**, A. Al-Mudhaf and M. Bayoumi, “Numerical Modeling of Filtration Processes with Time-dependent Inlet Concentration Source” Presented at the **2007 Annual Meeting of the American Filtration and Separation Society**, March 26-30, Orlando, Florida, 2007.
59. **A.J. Chamkha**, “A Systematic Approach to Filtration Modeling.” **Keynote Speaker**, ICoMS 2007, Johr Bahru, Malaysia, May 28-29, 2007.
60. **A.J. Chamkha**, “Double-Diffusive Convection for a Non-Newtonian Fluid Flow Past a Permeable Surface Embedded in a Porous Medium with Uniform Heat and Mass Fluxes.” Presented at the **WSEAS American Conference on Applied Mathematics (Math’08)**, Cambridge, MA, USA, March 24-26, 2008.
61. **A. J. Chamkha**, M.-E.M. Khedr and M. Bayomi, “Numerical Modelling of MHD Flow of a Micropolar Fluid past a Stretched Permeable Surface with Heat Generation or Absorption.” Presented at the **SIAM Conference on Computational Science and Engineering**, Miami, Florida, USA, March 2-6, 2009.
62. **A.J. Chamkha**, “Coupled Heat and Mass Transfer by Mixed Convection of a Power-Law Fluid Flow over a Wedge in Porous Media with Variable Wall Temperature and Concentration.” Presented at the **WSEAS American Conference on Applied Mathematics (Math’10)**, Cambridge, MA, USA, January 27-29, 2010. Also published in Recent Advances in Applied Mathematics, pp. 136-141, 2010.
63. **A.J. Chamkha** and S.E. Ahmed, “Unsteady MHD Heat and Mass Transfer by Mixed Convection Flow in the Forward Stagnation Region of a Rotating Sphere in the Presence of Chemical Reaction and Heat Source.” Presented at the **IAENG Conferences - WCECS 2010, International Conference on Chemical Engineering 2010**, San Francisco, CA, USA, October 19-22, 2010. Published in Proceedings of the World Congress on Engineering 2011, Vol. I, WCE 2011, July 6 - 8, 2011, London, U.K.

64. R.S.R. Gorla, **A.J. Chamkha** and A. Rashad, "Mixed Convective Boundary Layer Flow over a Vertical Wedge Embedded in a Porous Medium Saturated with a Nanofluid." Accepted for presentation in **Third International Conference on Thermal Issues in Emerging Technologies -Theory and Application - ThETA 3**, Cairo, Egypt, December 19-22, 2010.
65. G. Singh, P.R. Sharma and **A.J. Chamkha**, "Stagnation point mixed convection flow and mass transfer in porous medium along a non-isothermal permeable vertical plate in presence of heat source/sink and chemical reacting specie", **International Congress of Mathematicians 2010 at the University of Hyderabad, 2010.**
66. **A.J. Chamkha** and A. Aloraier, "Melting Effect on Mixed Convection Flow of a Non-Newtonian Fluid along a Vertical Cone in Porous Media" Presented at the **2011 Annual Meeting of the American Filtration and Separation Society.** May 9-12, Louisville, Kentucky, 2011.
67. N. Al-Juma' and **A.J. Chamkha**, "Coupled Heat and Mass Transfer by Natural Convection of a Micropolar Fluid Flow about a Sphere in Porous Media with Soret and Dufour Effects." Presented at the **9<sup>th</sup> WSEAS American Conference on Heat and Mass Transfer (HMT'12)**, Cambridge, MA, USA, January 25-27, 2012.
68. G. Sreedevi, R.R. Rao, **A.J. Chamkha**, D.R.V.P. Rao, "Mixed Convective Heat and Mass Transfer Flow of Nanofluids in Concentric Annulus." Presented at **International Conference on Computational Heat and Mass Transfer (ICCHMT) 2015**, Warangal, India, November 30 - December 02, 2015.
69. A. I. Alsabery, A. F. Al-Mudhaf, I. Hashim and **A. J. Chamkha**, "Effect of Periodicity of Sinusoidal Boundary Condition on Conjugate Natural Convection in Porous Square Cavity". Presented at the **4th International Conference on Mathematical Sciences (ICMS4)**, Putrajaya, Malaysia, November 15 – 17, 2016.
70. **A. J. Chamkha**, A. F. Al-Mudhaf, A. I. Alsabery, I. Hashim and, "Natural Convection Heat Transfer in a Square Cavity Filled with Non-Newtonian Nanofluid with Spatial Side-Wall Temperature Variation". Presented at the **2<sup>nd</sup> Global Nanotechnology Congress and Expo**, Las Vegas, USA, December 1 – 3, 2016.
71. A. Alghazo, **A.J. Chamkha**, R. Sinno, "Post-Graduates Perspectives on Internships Roles in Preparing Graduates for the Industry's Workforce Demands". Presented at the **2017 University-Industry Interaction Conference**, Dublin, Ireland, June 7-9, 2017.

#### TECHNICAL REPORTS

1. **A.J. Chamkha**, "Research Dealing with Compressible Two-Phase Boundary-Layer Flow," Report phase 1, submitted to Kuwait University Research Administration for Grant # EM-079, Dec., 1994.
2. **A.J. Chamkha**, "Transient Hydromagnetic Two-Phase Channel and Pipe Flows." Report phase 1, submitted to Kuwait University Research Administration for Grant # EM-083, June, 1995.

3. **A.J. Chamkha**, "Effects of Inertial Transport and Diffusion of Particles on the Compressible Boundary-Layer of a Two-Phase Suspension", Final Report, Grant No. EPM-079, December 1995.
4. **A.J. Chamkha**, "Transient Flow and Heat Transfer of a Particulate Suspension in Channels and Pipes in the Presence of a Magnetic Field," Final Report, Grant No. EPM-082, June 1996.
5. **A.J. Chamkha** and T. Al-Sahhaf, "Modelling of Cleaning Processes of Contaminated Porous Media," Final Report, Grant No. EM-101, June 1997.
6. **A.J. Chamkha**, "A Numerical Investigation for Hydromagnetic Two-Phase Compressible Boundary Layer Flow over a Non-Isothermal Surface," Annual Report, Grant No. EM-105, November 1998.
7. **A.J. Chamkha**, "Flow and Heat Transfer of Two-Immiscible Fluids in Porous and Non-Porous Inclined Channels," Final Report, Grant No. EM-121, February 1999.
8. **A.J. Chamkha**, "Flow and Heat Transfer Characteristics of a Particulate Suspension with Uniform and Non-Uniform Particle Density Over a Non-Isothermal Surface," Final Report, Grant No. EM-105, April 1999.
9. A. Al-Mudhaf and **A.J. Chamkha**, "Numerical Modeling of Filtration Processes with Spatially-Dependent Dispersion and Superficial Velocity under Constant and Time-Dependent Contamination Source," Progress Report, Grant No. TS-05-02, November 20, 2005.
10. **A.J. Chamkha** and A. Al-Mudhaf, "Thermo-Solutal Convection in an Inclined Porous Cavity in the Presence of Heat Generation or Absorption Effects," Progress Report, Grant No. TS-05-005, January 22, 2006.
11. **A.J. Chamkha** and A. Al-Mudhaf, "Thermo-Solutal Convection in an Inclined Porous Cavity with Various Aspect Ratio in the Presence of Heat Generation or Absorption Effects," Final Report, Grant No. TS-05-005, September 22, 2006.
12. **A.J. Chamkha**, "Double-Diffusive Mixed Convection in Non-Newtonian Power-Law Fluids along a Surface Embedded in a Non-Darcian Porous Medium," Progress Report, Grant No. TS-07-04, April 6, 2008.
13. **A.J. Chamkha**, "Heat and Mass Transfer for a Power-Law Fluid Flow along a Permeable Surface Embedded in a Non-Darcian Porous Medium in the Presence of Heat Generation/Absorption and a Chemical Reaction for Various Thermal and Solutal Conditions," Final Report, Grant No. TS-07-04, December 14, 2008.
14. M. Khedr, **A. J. Chamkha** and M. Bayomi, "MHD Flow of a Micropolar Fluid over a Permeable Surface with Heat Generation or Absorption," Progress Report, Grant No. TS-07-15, June 15, 2008.
15. M. Khedr, **A. J. Chamkha** and M. Bayomi, "MHD Flow of a Micropolar Fluid over a Stretched Permeable Surface with Heat Generation or Absorption," Final Report, Grant No. TS-07-15, March 15, 2009.
16. **A.J. Chamkha**, "Combined Convection Heat and Mass Transfer in Non-Newtonian Fluids along a Wedge Embedded in a Porous Medium in the Presence of Radiation and Chemical Reaction," Progress Report, Grant No. TS-08-09, January 25, 2010.
17. **A.J. Chamkha**, "Heat and Mass Transfer of a Non-Newtonian Fluid Flow over a Permeable Wedge in Non-Darcian Porous Media with Variable Wall Temperature and Concentration and Various Physical Effects," Final Report, Grant No. TS-08-09, July 25, 2010.

18. A. Aloraier and **A. J. Chamkha**, "Melting Effect on Mixed Convection Flow of a Non-Newtonian Fluid along a Vertical Cone in Porous Media," Progress Report, Grant No. TS-10-04, December 6, 2010.
19. A. Aloraier and **A. J. Chamkha**, "Melting Effect on Mixed Convection Flow of a Non-Newtonian Fluid along a Vertical Cone in Non-Darcian Porous Media," Final Report, Grant No. TS-10-04, September 15, 2011.

## RESEARCH GRANTS

- Principal Sole Investigator, "Compressible Two-Phase Boundary-Layer Flow," Grant # EPM-079. Starting January 7, 94 and ending January 6, 96, funding from Kuwait University, Amount about U.S. \$16,000.
- Principal Sole Investigator, "Fluid-Particle Flow in Channels and Pipes," Grant # EPM-082. Starting July 1, 94 and ending June 30, 96, funding from Kuwait University, Amount about U.S. \$21,000.
- Principal Investigator, "Particulate Removal from a Porous Medium," (Co-investigator: Dr. Taher Al-Sahhaf) Grant # EM-101. Starting March 1, 1996 and ending February 28, 1997, funding from Kuwait University, Amount about U.S. \$7,500.
- Principal Sole Investigator, "Compressible Fluid/Particle Boundary-Layer Flow with Finite Particle Volume Fraction over Non-Isothermal Flat Surface," Grant # EM-105. Starting December 1, 1996 and ending November 30, 1998, funding from Kuwait University. Amount about U.S. \$35,000.
- Principal Sole Investigator, "Hydromagnetic Flow and Heat Transfer of Two Immiscible Fluids in a Channel Filled with a Porous Medium," Grant # EM-121. Starting October 1, 1997 and ending September 30, 1998, funding from Kuwait University. Amount about U.S. \$8,000.
- Co-Investigator, "Numerical Modeling of Filtration Processes with Spatially-Dependent Dispersion and Superficial Velocity Under Constant and Time-Dependent Contamination Source," (Principal Investigator: Dr. Ali Al-Mudhaf) Grant # TS-05-02. Starting May 20, 2005 and ending February 22, 2007, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$15,000.
- Principal Investigator, "Thermo-Solutal Convection in a Porous Medium-Filled Enclosure Under Various Thermal and Concentration Boundary Conditions," (Co-investigator: Dr. Ali Al-Mudhaf) Grant # TS-05-005. Starting July 22, 2005 and ending September 22, 2006, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$15,000.
- Principal Sole Investigator, "Double-Diffusive Mixed Convection in Non-Newtonian Power-Law Fluids along a Surface Embedded in a Non-Darcian Porous Medium," Grant # TS-07-04. Starting October 3, 2007 and ending October 5, 2008, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$18,000.
- Co-Investigator, "Natural Convective MHD Flow of a Micropolar Fluid over a Permeable Surface with Heat Generation or Absorption," (Principal Investigator: Dr. Mohey-Eldin M. Khedr and co-investigator: Dr. Mohamad Bayomi) Grant # TS-07-15. Starting December 15, 2007 and ending December 15, 2008, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$15,000.
- Principal Sole Investigator, "Combined Convection Heat and Mass Transfer in Non-Newtonian Fluids along a Wedge Embedded in a Porous Medium in the Presence of



Radiation and Chemical Reaction," Grant # TS-09-08. Starting July 25, 2009 and ending July 25, 2010, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$16,000.

- Co-Investigator, "Melting Effect on Mixed Convection Flow of a Non-Newtonian Fluid along a Vertical Cone in Porous Media," (Principal Investigator: Dr. Abdulkareem Aloraier) Grant # TS-10-04. Starting June 6, 2010 and ending September 6, 2011, funding from The Public Authority for Applied Education and Training. Amount about U.S. \$16,000.

#### **SENIOR PROJECTS SUPERVISED**

- Musaed Al-Aradah, "Flow and Heat Transfer of a Non-Newtonian Fluid in a Porous Medium," August, 1994.
- Haifa Saleh, "Natural Non-Newtonian Convection Flow Over a Vertical Plate Adjacent to a Porous Medium", January, 1997.
- Manal Hashem, "Natural Convection Flow of Power-Law Fluids in Vertical Porous Medium Channels", January, 1997.
- Hisham Al-Obaid, "g-Jitter Induced Hydromagnetic Free Convection in a Porous Medium Channel", June, 1997.
- Ahmed Al-Shatti, "Design and Performance of an Air-Conditioning Split System", July 1997.
- Ashraf Al-Qattan, "Piping Network", August 1997.
- Sherifa Marafi, "Mixed Convection Flow Over a Rotating Cone With Variable Wall Heat Flux Embedded in Porous Media", November 1997.
- Majed Majeed, "Mixed Convection Heat Transfer From a Rotating Porous Cone in Porous Media maintained at Constant Heat Flux", December 1997.
- Muneera Matter, "Mixed Convection Heat Flow of a Non-Newtonian Fluid Over a Rotating Cone in Porous Media", June 1998.
- Ismail Behbahani, "Natural Convection of a Particulate Suspension Through an Annular Duct for Various Wall Heating Conditions", January 2002.
- Bader Al-Kharafi, "The Components and Operation of Pumps", January 2002.

#### **M.Sc. THESES AND PROJECTS SUPERVISED**

- Hassan Ramadan, "Free Convection Flow of a Particulate Suspension Over an Inclined Isothermal Surface", 1997.
- Abdul-Rahim Assaad Khalid, "Natural Convection Boundary Layer Flow of Electrically-Conducting Fluids Along a Vertical Plate Embedded in Porous Media", 1998.
- Jamal Adeeb, "Transient Oscillatory Flow From a Vertical Plate in Two-Phase Flow", 1998.
- Hamid Jawad Al-Naser, "Hydomagnetic Double-Diffusive Convection in Inclined Porous Enclosures with Opposing Temperature and Concentration Gradients" 1999.
- Mansour Al-Subai, "Transient Buoyancy-Induced Flow of a Two-Phase Particulate Suspension in Vertical Channels and Pipes", 2000. (Co-supervised by N. Al-Najem)

- Mona Al-Baz, "Natural Convection Flow of a Particulate Suspension Through Annular Ducts", 2000.
- Faisal Abdulgafoor, "Heat and Mass Transfer in a Square Cavity Filled with a Non-Darcian Porous Medium", 2002.
- Salah Al-Obeid, "Steady Flow of a Particulate Suspension in Two Immiscible Fluids Through a Channel", 2002.
- Seham Al-Rashidi, "Natural Convection Flow of a Two-Phase Fluid/Particle Suspension in Vertical Channels with Various Wall Thermal Conditions", 2002.
- Nayela Makki Al-Juma, "Heat and Mass Transfer by Natural Convection Flow of a Micropolar Fluid about a Sphere Embedded in a Porous Medium in the Presence of Various Physical Effects", 2011. (Co-supervised by Farhan Al-Aani, Gulf University, Bahrain)

### **PERSONAL**

- Nationality: Lebanese with a Permanent Residency in the United States of America
- Date of Birth: June 1, 1964.
- Marital Status: Married and have three daughters (Zeinab, Malak and Rawan)
- Hobbies: Reading and writing poetry, walking and doing light sports.