

Curriculum Vitae

Personal Information

Name : Osamah Menwer Yacoub Haddad

Date and Place of Birth : June 2, 1965 in Irbed-Jordan

Citizenship : Jordanian

Marital Status : Married and a father of two sons and two daughters

Address : Jordan Univ. of Science & Technology
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Education

- Ph.D. in Mechanical and Aerospace Engineering, Illinois Institute of Technology(IIT) – Chicago, USA, Dec. 1995.
Thesis Title: Numerical Study of Leading-Edge Receptivity Over Parabolic Bodies.
- M.Sc. in Mechanical Engineering, Jordan University of Science and Technology(JUST) – Jordan, Oct. 1990.
Thesis Title: Flow and Heat Transfer in Variable Curvature Curved Pipes.
- B.Sc. in Mechanical Engineering (Ranked 1st. on class 1987), Mosul University – Iraq, July 1987.
Graduation project Title: Design of a Central Air-Conditioning System for the University of Mosul Computer Center.

Professional Experience

- Member of the Board of Trustees, Oct. 2019 – now: the Royal Jordanian Air Force Technical University College(RJAFC) - Mafraq (This is a three year long academic program college, offering three majors: Aviation Science, Navigation, and Air Traffic Control). This board is the founding board of the college, where we helped the college to transform from a two years non-accredited college to a three years academically accredited college at both the national and regional levels. All the bylaws and regulations have been either established or modified to satisfy the needed requirements for such purpose.
- Vice President, Sept. 2017 – Sept. 2019: American University of Madaba(AUM) – Jordan. During this period, I headed many committees, most importantly the bylaws and regulations committee. As a vice president, I was in charge of revising and updating all the bylaws and regulations of the university, and indeed the mission was accomplished. Also, I was assigned many times as the acting president of the university during travel times of the president. In addition, I represented the institution in many formal missions, both inside Jordan and outside.
- Dean of Engineering, Sept. 2017 – Sept. 2019: College of Engineering / American University of Madaba(AUM) – Jordan. During this period and as a dean, I was in charge of running the deanship and monitoring the performance of the different departments of the college. Also, I represented the college in many formal missions, both inside Jordan and outside.
- Dean of Scientific Research, Sept. 2013 – Set. 2016: Deanship of Scientific Research, Jordan University of Science and Technology(JUST) – Jordan. During this period, I worked very hardy on reshaping the deanship to improve its profile and performance in order to motivate and attract researchers. This was done through setting up a strategic plan along with an action plan, revising all research instructions, improving research incentives, hosting many research activities, simplifying procedures, switching from paper to electronic deanship, replacing the staff of the deanship with more qualified staff... etc. This has lead to an increase in the number of research applications for funding, significant increase in research expenditures (about doubled), significant increase in incentives expenditures, significant increase in the number of articles published in international journals (The total number of published articles raised from 486 to 793 between the years 2013 and 2017 based on Scopus database). On top of that, the deanship has submitted 10 patents for registration in the USA and registered other applications locally. All of this has helped the institution to improve its ranking on the Times Higher Education World University Ranking – 2017 list, where JUST occupied position number one nationally thus recognized as the best national university.
- Member of the board of trustees by a Royal Decree for Al-Hussein bin Talal University in Ma'an-Jordan, 2010-2014.
- Vice Dean of Engineering, Sept. 2006 – Sept. 2011: College of Engineering / Jordan University of Science and Technology(JUST) – Jordan. During this period, the college has applied for the ABET accreditation for four of its departments, and all of these departments have earned the accreditation. Also, I was in charge of all academic promotions applications in the college of engineering, a big college which involved more than 170 faculty members.

In addition, I was in charge of all affairs of the graduate students in the college. Furthermore, I headed and guided the committee in charge of developing a brand new curriculum and study plan for the newly established "Department of Aeronautical Engineering".

- Aeronautical Engineering Department Chairman and Founder, Sept. 2009 – Sept. 2010: Department of Aeronautical Engineering / Jordan University of Science and Technology(JUST) – Jordan. During this period, JUST administration decided to establish a new engineering department based on my personal advice to the president and the demand of the local/regional market at that time. As a founding department head, I was in charge of establishing this new department, including building up a new study plan that meets the recent developments in aeronautical engineering, recruiting/selecting the academic and administrative staff for appointment, preparing a fully equipped lab facility, applying for and following up accreditation ...etc. The department is up and running since then.
- Professor of Mechanical Engineering, January 2006 – Present: Department of Mechanical Engineering / Jordan University of Science and Technology(JUST) – Jordan.
- Mechanical Engineering Department Chairman, Sept. 2004 – Sept. 2007: Department of Mechanical Engineering / Jordan University of Science and Technology(JUST) – Jordan. During this period, and as a department head, I was in charge of preparing the department's portfolio for the ABET accreditation. The department involved about 30 faculty members (half of them were at the full professor rank) and more than 700 students. In addition, I was in charge of the department's strategic plan as well as the department's five years plan. Furthermore, the curriculum and study plan at the mechanical engineering department has been thoroughly revised under my guidance and supervision as a chairman.
- Selected as committee head to establish a brand new study plan for the department of mechanical engineering at the newly established American University of Madaba – Jordan, 2005.
- Associate Professor of Mechanical Engineering, January 2001 – January 2006: Department of Mechanical Engineering / Jordan University of Science and Technology(JUST) – Jordan.
- Visiting Researcher, summer of 2004: Hessert Center for Aerospace Research – Aerospace and Mechanical Engineering Department / University of Notre Dame(ND) – USA.
- Visiting Researcher, Sept. 2002 – Sept. 2003 (Sabbatical Leave): Hessert Center for Aerospace Research – Aerospace and Mechanical Engineering Department / University of Notre Dame(ND) – USA.
- Visiting Researcher, summer of 2000: Hessert Center for Aerospace Research – Aerospace and Mechanical Engineering Department / University of Notre Dame(ND) – USA.
- Assistant Professor, January 1996 – January 2001: Department of Mechanical Engineering / Jordan University of Science and Technology(JUST) – Jordan.
- Senior Research Associate, summer of 1996: Department of Mechanical Engineering / Illinois Institute of Technology(IIT) – USA.

- Teaching Assistant, 1988-1990: Mechanical Engineering Department / Jordan University of Science and Technology(JUST) – Jordan.
- Training Engineer, 1990-1991: The Ministry of Public Works & Housing – Jordan.
- Part-Time Instructor, 1994-1995: Department of Mechanical Engineering / Illinois Institute of Technology(IIT) – USA.
- Research Assistant, 1993-1994: Mechanical Engineering Department / Illinois Institute of Technology(IIT) – USA.
- Teaching Assistant, 1992-1993: Mechanical Engineering Department / Illinois Institute of Technology(IIT) – USA.

Additional Professional Activities

- Guest editor of the Nuclear Engineering and Design Journal (Elsevier) - USA, Volume 259, 2013.
- Guest editor of the International Journal of Sustainable Energy (Taylor and Francis) - USA, Volume 30, 2011.
- Member of the International Scientific Committee for the The 10th International Conference on Sustainable Energy Technologies (SET 2011), Istanbul-Turkey, 2011.
- Member of the joint committee between the University of Highlands and Islands (UHI)-Perth college in Scotland and Jordan University of Science & Technology to establish an excellence center and develop a brand new curriculum in Aviation Sciences for the joint program between the two institutions, 2005.
- Technical co-Chair for the The 1st International Nuclear and Renewable Energy Conference (INREC'10), Amman-Jordan, 2010.
- Member of the committee formed by the Council of Higher Education in the Ministry of Higher Education and Scientific Research to evaluate the applications received by the ministry to establish Colleges in Aviation Sciences– Jordan, 2009.
- Representative of the Jordanian academic sector in the official visit of the Ministry of Planning to Finland for the purpose of learning from the Finnish experience in the field of Innovation Centers and Industrial Incubators, 2009.
- Reviewer/Evaluator of many applications for academic promotion for the University of Technology – Iraq, 2007-present.
- Reviewer/Evaluator of many applications for academic promotion for Al-Mustansiriyah University – Iraq, 2012-present.

- Reviewer/Evaluator of many applications for academic promotion for Palestine Polytechnic University – Palestine, 2007-present.
- Member of the Specialized-Certificates-Equivalency-Committee in the Ministry of Higher Education and Scientific Research – Jordan, 2007-2010.
- Member of the National-Achievement-Examination-Committee in the Ministry of Higher Education and Scientific Research – Jordan, 2005-2007.
- Member of the joint committee between the Aviation Technological Academy (ATA) and Jordan University of Science & Technology to establish a new curriculum in Aviation Sciences for the joint program between the two institutions, 2005.
- Member of the EDITORIAL BOARD for “*Transport in Porous Media*” Journal (Springer) , The Netherlands, 2005-now.
- Member of The International Association of Science and Technology for Development (IASTED) Technical Committee on Energy and Power Systems Conference, Canada, 2007.
- Member of the International Program Committee (IPC) for the IASTED International Conference on Modern Nonlinear Theory – Bifurcation and Chaos, MNT 2007, Montreal, Canada.
- Member of the EDITORIAL BOARD for “*Recent Patents on Mechanical Engineering (MENG)*” Journal, Bentham Science Publishers, since 2007.
- Member of the EDITORIAL BOARD for “*The Engineering Journal*”, published by Jordan Engineers Association(JEA), since 2007.
- Reviewer for the following scientific international journals:
 - Int. J. Heat Mass Transfer* – USA.
 - Int. J. Numerical Methods Heat Fluid Flow* – UK.
 - Int. J. Thermal Sciences* – UK.
 - Int. J. Fluid Mechanics Research* – USA.
 - Transport in Porous Media* – Netherlands.
 - J. Porous Media* – USA.
 - Energy* – USA.
 - Microfluidics & Nanofluidics* – Germany.
 - Entropy* – Netherlands.
 - Sadhana Journal of the Indian Academy of Science* – India.
 - Mu'tah journal* – Jordan.
 - Jordan Journal of Mechanical and Industrial Engineering* – Jordan.
 - Journal of Mechanical Science and Technology* – South Korea.
 - Energy and Buildings* – Switzerland.
 - Energy Conversion and Management*, UK.
- Reviewer for the “IASTED International Conference on Modeling and Simulation”, Canada.
- Reviewer for “the Second, Third and Fourth Jordanian International Conference for Mechanical Engineering (JIMEC 97, 99 and 2000)”.

- Session chair for the 11th International Symposium of Flow Visualization (ISFV), University of Notre Dame, USA, 2004.
- Chairman of the ABET committee, Department of Mechanical Engineering, Jordan University of Science & Technology, Jordan, 2003-2005.
- Member of the ABET committee, Faculty of Engineering, Jordan University of Science & Technology, Jordan, 2003-2011.
- Reviewer for funded research applications, the Higher Council for Science & Technology, Jordan, 2000-present.
- Reviewer for many funded research applications, the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2000-present.
- Supervised many undergraduate senior projects, 1996-present.
- Supervised many M.Sc. theses, 1996-present.
- Co-Advised two Ph.D. students, Aerospace & Mechanical Engineering Department, University of Notre Dame, Indiana, USA, 2002-2003.
- Committee member on many M.Sc. thesis defense committees, 1996-present.
- Organizing committee member for many engineering activities at Jordan University of Science and Technology-Jordan, 1996-present.

Selected Most Recent Committees/Councils Memberships

- Member of the jury: Jordan Engineers Association (JEA) competition for the best graduation project for engineering college students in all Jordanian universities, 2022-2024.
- Committee head: Bylaws and Regulations committee, American University of Madaba(AUM), 2017-2019.
- Committee member: Appointment and Promotion committee, American University of Madaba(AUM), 2017-2019.
- Council head: Institution Research Council, Deanship of Scientific Research, Jordan University of Science and Technology (JUST), 2013-2016.
- Council member: Faculty of Scientific Research and Graduate Studies, Yarmouk University, Jan. 2015-present.
- Council member: Faculty of graduate studies, Jordan University of Science and Technology (JUST), 2013-2016.
- Council member: The Consultative Center for Science and Technology (CCST) at JUST, 2013-2016.

- Council member: The Computer and Information Center (CIC), Jordan University of Science and Technology (JUST), 2013-2016.
- Council member: The Energy center, Jordan University of Science and Technology (JUST), 2013-2016.
- Council member: Queen Rania Al-Abdullah Center For Environmental Science & Technology, Jordan University of Science and Technology (JUST), 2013-2016.
- Council member: The Drug Information Center (DIC), Jordan University of Science and Technology (JUST), 2013-2016.
- Committee member: The national “Health Policy Forum” in cooperation with the American University of Beirut (AUB), 2014-present.
- Deans council committee member: to introduce “Innovation & Entrepreneurship” in the study plans at Jordan University of Science and Technology (JUST), 2014.
- Organizing committee member: The 5th. Jordanian IIR Conference on Refrigeration and Air Conditioning at the University of Jordan, 2015.
- Organizing committee member: The national “Jordanian Brain Drain Reversal Program” at the Higher Council of Science and Technology(HCST) – Amman, 2014-present.
- Member of the National Consultative Council for the Synchrotron center (Cisama SESAME) – Jordan, 2015.
- Consultative committee member for the “Capacity Building for Olives Oil Industry in Jordan” project funded by the European Union(EU)-Tempus project, 2014.
- Member of the “Appeals Council” for the faculty members at Jordan University of Science and Technology(JUST), 2013-2016.
- Member of the negotiation committee with the Egyptian delegates to discuss future cooperation between Jordanian and Egyptian scientists at the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2015.
- Member of the “Strategic Plan 2016-2020” central committee, Jordan University of Science and Technology(JUST), 2015.
- Member of the Dean’s council committee to revise the academic promotions instructions at Jordan University of Science and Technology(JUST), 2016.
- Member of the “Energy Sector” committee at the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2016-2017.
- Member of the “Strategic Plan” committee at the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2016.
- Committee member to set the scientific research priorities in cooperation with University of Jordan, Munib Al-Masri research fund, Jordan, 2016.
- Member of the “Scientific” committee at the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2017-2019.
- Head of the “Engineering” committee at the Scientific Research Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan, 2017-2019.

Professional Memberships

- Jordan Engineers Association (JEA).
- American Society of Mechanical Engineers (ASME).

Academic Courses Taught

- Undergraduate: Numerical Methods, Heat Transfer-1, Heat Transfer-2, Thermodynamics-1, Thermodynamics-2, Gas Turbines, Fluid Mechanics, Gas Dynamics, Statics, Engineering Mechanics, Engineering Drawing.
- Graduate: Numerical Methods, Heat Transfer, Graduate Seminar.

Funded Projects

1. Project Title: Natural convection heat transfer from a vertical parabolic cylinder
Funded By: Deanship of Scientific Research-Jordan University of Science and Technology
Fund Amount: JD 3400
Period: 4/1998 – 4/1999
2. Project Title: The effect of the gas-gap formation due to shrinkage on the rate of heat transfer during solidification
Funded By: Deanship of Scientific Research-Jordan University of Science and Technology
Fund Amount: JD 1300
Period: 12/2000 – 12/2001
3. Project Title: Numerical study of flow and heat transfer in irregular annuli filled with porous media
Funded By: Deanship of Scientific Research-Jordan University of Science and Technology
Fund Amount: 2000 JD
Period: 12/2008 – 12/2010
4. Project Title: Promotion of Innovation Culture in the Higher Education in Jordan (INVENT)
Funded By: European Union – Erasmus+
Fund Amount: 879400 €
Period: 10/2015 – 10/2018
5. Project Title: Modernisation of institutional management of innovation and research in south neighboring countries (MIMIR)
Funded By: European Union – Erasmus+
Fund Amount: 823407 €
Period: 10/2015 – 10/2018

Research Profiles

Researchgate Profile:

<https://www.researchgate.net/profile/Osamah-Haddad>

Publications: 42

Citations: 1883

Research Interest Score: 1004

Research Interest Score is higher than 93% of ResearchGate members.

h-index: 17

h-index excluding self citations: 17

Google Scholar Profile:

https://scholar.google.com/citations?hl=en&user=ka2f83AAAAAJ&view_op=list_works&sortby=pubdate

Publications: 47

Citations: 2007

h-index: 17

i10-index: 20

Scopus Profile:

Publications: 34

Citations: 1582

h-index: 16

List of Publications

1. **O. Haddad** and Th. Corke, “Receptivity to Sound on a Parabolic Leading-Edge: Part I , Basic Flow”, *Bulletin of the American Physical Society*, vol. 40, no. 12, (1995).
2. Th. Corke and **O. Haddad**, “Receptivity to Sound on a Parabolic Leading-Edge: Part II, Perturbation Flow”, *Bulletin of the American Physical Society*, vol. 40, no. 12, (1995).
3. **O. Haddad** and Th. Corke, “Leading-Edge Receptivity on Parabolic Bodies”, Proceedings of *the Int’l Congress on Fluid Dynamics and Propulsion (ICFDP)*, Organized by the ASME and Cairo University, Cairo, (1996).
4. **O. Haddad** and Th. Corke, “Receptivity to Sound on a Parabolic Leading-Edge at an Angle of Attack”, *Bulletin of the American Physical Society*, vol.41, no.12, (1996).
5. **Haddad, O.** and Corke, T., “Boundary Layer Receptivity to Free-stream Sound on Parabolic Bodies”, *Journal of Fluid Mechanics*, vol. 368, pp. 1-26, (1998).
6. Al-Nimr, M. and **Haddad, O.**, “Water Distiller/Condenser by Radiative Cooling of Ambient Air”, *Renewable Energy*, vol. 13, no. 3, pp. 323-331, (1998).

7. M. Al-Nimr and **O. Haddad**, "Fully Developed Free Convection in Open-Ended Vertical Channels Partially Filled with Porous Material", *Journal of Porous Media*, vol. 2, no. 2, pp. 179-189, (1999).
8. M. Al-Nimr, **O. M. Haddad** and V. Arpaci, "Thermal Behaviour of Metal Films- A hyperbolic Two-Step Model", *Heat and Mass Transfer*, vol. 35, pp. 459-464, (1999).
9. **O. Haddad**, M. Abu-Qudais, and A. Maqableh, "Numerical Solutions of the Navier-Stokes and Energy Equations for Laminar Incompressible Flow Past Parabolic Bodies", *International Journal of Numerical Methods for Heat and Fluid Flow*, vol. 10, no. 1, pp. 80-93, (2000).
10. M. Abu-Qudais, **O. Haddad**, and M. Qudaisat, "The Effect of Alcohol Fumigation on Diesel Engine Performance and Emissions", *Energy Conversion and Management*, vol. 41, pp. 389-399, (2000).
11. **O. M. Haddad**, M. Abu-Qudais, B. Abu-Hijleh, and A. Maqableh, "Entropy Generation due to Laminar Forced Convection Flow Past a Parabolic Cylinder", *International Journal of Numerical Methods for Heat and Fluid Flow*, vol. 10, no. 7, pp. 770-779, (2000).
12. **O. Haddad**, M. A. Al-Nimr, and A. Maqableh, "Enhanced Solar Still Performance Using a Radiative Cooling System", *Renewable Energy*, vol. 21, pp. 459-469, (2000).
13. M. Al-Nimr and **O. Haddad**, "Closure: Reply to the Comments of D. A. Nield", *Journal of Porous Media*, vol. 4, no. 1, pp. 101-102, (2001).
14. M. A. Al-Nimr and **O. M. Haddad**, "The Phase-Lag Concept in the Thermal Behavior of Lumped Systems", *Heat and Mass Transfer*, vol. 37, pp. 175-181, (2001).
15. M. Abu-Qudais, **O. M. Haddad**, and A. Maqableh, "Hydrodynamic and Heat Transfer Characteristics of Laminar Flow Past a Parabolic Cylinder With Constant Heat Flux", *Heat and Mass Transfer*, vol. 37, pp. 299-308, (2001).
16. **O. M. Haddad**, M. Al-Nimr, and M. K. Siliyeti, "The Effect of Gas-Gap Formation due to Shrinkage on the Rate of Heat Transfer During Solidification", *Numerical Heat Transfer-Part A*, vol. 40, pp. 887-900, (2001).
17. **O. M. Haddad**, M. Al-Nimr, and M. Abu-Ayyad, "Numerical Simulation of Forced Convection Flow Past a Parabolic Cylinder Embedded in Porous Media", *International Journal of Numerical Methods for Heat and Fluid Flow*, vol. 12, no. 1, pp. 6-28, (2002).
18. **O. M. Haddad** and M. A. Al-Nimr, "Transient Behavior of a Radiative Distiller/Condenser System", *Applied Energy*, vol. 71, pp. 341-349, (2002).
19. D. Orlov, Th. Corke and **O. Haddad**, "DNS Modeling of Plasma Array Flow Actuators", *Bulletin of the American Physical Society*, vol.48, no. 12, (2003).
20. V. Voikov, Th. Corke and **O. Haddad**, "Numerical Simulations of Compressible Internal Flows using k-epsilon and v²-f Models", *Bulletin of the American Physical Society*, vol.48, no. 12, (2003).

21. E. Erturk, Th. Corke and **O. Haddad**, "Laminar Incompressible Flow Past Parabolic Bodies at Angles of Attack", *Bulletin of the American Physical Society*, vol.48, no. 12, (2003).
22. Th. Corke, E. Erturk and **O. Haddad**, "Boundary Layer Receptivity to Sound on a Parabolic Body with Flow Separation", *Bulletin of the American Physical Society*, vol.48, no. 12, (2003).
23. **O. M. Haddad**, M. K. Alkam, and M. T. Khasawneh, "Entropy Generation Due to Laminar Forced Convection in the Entrance Region of a Concentric Annulus", *Energy (Oxford)*, vol. 29, no. 1, pp. 35-55, (2004).
24. **O. M. Haddad**, M. Al-Nimr, and A. Al-Khateeb, "Validation of the Local Thermal Equilibrium Assumption in Natural Convection from a Vertical Plate Embedded in Porous Medium: Non-Darcian Model", *International Journal of Heat and Mass Transfer*, vol. 47, no. 8/9, pp. 2037-2042, (2004).
25. C. Enloe, T. McLaughlin, R. VanDyken, K. Kachner, E. Jumper, T. Corke, M. Post, **O. Haddad**, "Mechanisms and Responses of a Single Dielectric Barrier Plasma Actuator: Geometric Effects", *AIAA Journal*, vol. 42, no. 3, pp. 595-604, (2004).
26. E. Erturk, **O. M. Haddad** and T. C. Corke, "Laminar Incompressible Flow Past Parabolic Bodies at Angles of Attack", *AIAA Journal*, vol. 42, no. 11, pp. 2254-2265, (2004).
27. **O. M. Haddad**, M. Abu-Zaid, M. A. Al-Nimr and, "Entropy Generation Due to Laminar Forced Convection Fluid Flow Through Microchannel", *Entropy Journal*, vol. 6, no. 5, pp. 413-426, (2004).
28. V. Voikov, Th. Corke and **O. Haddad**, "Numerical Simulation of Flow Control Over Airfoils Using Plasma Actuators", *Bulletin of the American Physical Society*, vol.49, no. 12, (2004).
29. D. Orlov, Th. Corke and **O. Haddad**, "Modeling of Plasma Actuator Effects Using Lumped Element Circuit Model", *Bulletin of the American Physical Society*, vol.49, no. 12, (2004).
30. **O. M. Haddad**, M. Al-Nimr, and A. Al-Khateeb, "Validity of the Local Thermal Equilibrium Assumption in Natural Convection from a Vertical Plate Embedded in Porous Medium: Darcian Model", *Journal of Porous Media*, vol. 8, no. 1, pp. 85-95, (2005).
31. **O. M. Haddad**, M. A. Al-Nimr and M. Abu-Zaid, "The Effect of Frequency of Fluctuating Driving Force on Basic Gaseous Micro-Flows", *Acta Mechanica Journal*, vol. 179, pp. 249-259, (2005).
32. **O. M. Haddad**, M. Abu-Zaid and M. A. Al-Nimr, "Developing Free Convection Gas Flow in a Vertical Open-Ended Micro-Channel Filled with Porous Media", *Numerical Heat Transfer- Part A*, vol. 48, pp. 693-710, (2005).
33. **O. M. Haddad**, E. Erturk and T. C. Corke, "Acoustic Receptivity of Boundary Layers Over Parabolic Bodies at Angles of Attack", *Journal of Fluid Mechanics*, vol. 536, pp. 377-400, (2005).

34. **O. M. Haddad**, M. A. Al-Nimr and Y. Taamneh, "Hydrodynamic and thermal behavior of gas flow in microchannels filled with porous media", *J. of Porous Media*, vol. 9, no. 5, pp. 403-414, (2006).
35. **O. M. Haddad** and M. Q. Al-Odat, "Numerical Calculation of Fully Developed Laminar Flow in Irregular Annuli", *International Journal of Numerical Methods for Heat and Fluid Flow*, vol. 16, no. 3, pp. 293-303, (2006).
36. **O. M. Haddad**, M. A. Al-Nimr and M. Abu-Zaid, "Effect of Periodically Oscillating Driving Force on Basic Microflows in Porous Media", *J. Porous Media*, vol. 9, no. 7, pp. 695-707, (2006).
37. **O. M. Haddad** and A. A. Bany-Youness, "Numerical Solution of Natural Convection Flow Over Parabolic Cylinders", *International Journal of Thermophysics*, vol. 27, no. 5, pp. 1590-1608, (2006).
38. **O. M. Haddad**, M. A. Al-Nimr, J. Sh. Al-Omary, "Forced Convection of Gaseous Slip Flow in Porous Micro-Channels Under Local Thermal Non-Equilibrium Conditions", *Transport in Porous Media*, vol. 67, no. 3, pp. 453-471, (2007).
39. **O. M. Haddad**, M. A. Al-Nimr, M. S. Sari, "Forced Convection Gaseous Slip Flow in Circular Porous Micro-Channels", *Transport in Porous Media*, vol. 70, no. 2, pp. 167-179, (2007).
40. Al-Nimr, M. A. and **Haddad, O. M.**, "Comments on 'forced convection with slip-flow in a channel or duct occupied by a hyper-porous medium saturated by a rarefied gas', *Transport in Porous Media*, 64, 161-170, 2006", *Transport in Porous Media*, vol. 67, no. 1, pp. 165-167, (2007).
41. **Haddad, O. M.**, Al-Nimr, M. A., Shatnawi, Gh., "Free Convection Gas Flow in Porous Micro-Channels", Presented at *The 6th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'08), Rhodes (Rodos) Island, Greece, August 20-22, 2008*, appeared in *Selected Papers from the WSEAS Computing and Computational Techniques in Science Conferences in Spain, September 2008 Santander, Cantabria, Spain, September 23-25, pp. 157-161, (2008)*.
42. M. Q. Al-Odat, **O. M. Haddad**, "Numerical investigation of fully developed laminar flow in irregular annuli: Square-circular ducts", *International Journal for Numerical Methods in Fluids*, vol. 64, no. 2, pp. 136-147, (2010).
43. **Haddad, O. M.**, Al-Nimr, M. A. and Marji, N., "Forced Convection Slip Flow in Micro-Channels Under Transient Inlet Temperature", under preparation.
44. **Haddad, O. M.** and Al-Oqlah, F., "Numerical Study of Flow and Heat Transfer in Irregular Annuli Filled With Porous Media", under preparation.
45. **Haddad, O. M.**, Al-Nimr, M. A. and Al-Issa, H., "Free Convection Particulate Flow in Microchannels", under preparation.

46. **Haddad, O. M.**, Al-Nimr, M. A. and Alkhader, M., “Forced Convection Particulate Flow in Microchannels”, under preparation.
47. **Haddad, O. M.** and Tradat, M., “Forced Convection of a Nanofluid Flow in Irregular Ducts”, under preparation.
48. **Haddad, O. M.**, Al-Nimr, M. A. and Al-samamah, L., “The feasibility of using magnetic refrigeration cycles in the thermal management of rechargeable batteries in electric cars”, *Energy, the International Journal*, vol. 283, 129131, (2023).
49. **Haddad, O. M.** and Alawi, A., “Entropy generation of laminar forced convection nanofluid flow inside a circular duct”, *9th Thermal and Fluids Engineering Conference - The American Society of Thermal and Fluids Engineers (ASTFE)-USA*, (2023).
50. **Haddad, O. M.** and Mansour, L., “Numerical investigation of forced convection heat transfer of nanofluid flow in concentric irregular annul”, *The International Conference on Technology, Engineering and Science (IConTES)-Turkey*, (2023).

Achievements / Awards

- The B.Sc. Award of Excellence to the ranked first student in the Mechanical Engineering Department, Class 1987, Mosul University, IRAQ.
- The B.Sc. Award of Excellence to the fourth top student in the college of Engineering, Class 1987, Mosul University, IRAQ.
- Winning a high competition scholarship from the Jordanian government to earn the Ph.D. degree in Mechanical engineering from the USA, 1991.
- Outstanding teaching evaluations over the years, Department of Mechanical engineering / Jordan University of Science & Technology(JUST), 1996-present.
- Winning many research grants at Jordan University of Science and Technology(JUST) – Jordan, 1996-present.
- Winning a two years grant from the National Science Foundation(NSF) in the USA to support US–Jordan Cooperative scientific research, grant no. 323216, July 2003 – July 2005.
- Winning a three years big grant from the European Union – Erasmus+ program: “Promotion of Innovation Culture in the Higher Education in Jordan (INVENT)”, Oct. 2015 – Oct. 2018.
- Winning a three years big grant from the European Union – Erasmus+ program: “Modernisation of institutional management of innovation and research in south neighboring countries (MIMIR)”, Oct. 2015 – Oct. 2018.

Languages

- Arabic and English

Hobbies

- Reading, playing Basket-Ball and listening to Music.