

Distinguished Professor Moh'd A. Al-Nimr
Honorary Editor-in-Chief: Energy Conversion and Management – ELSEVIER
Founding Editor-in-Chief: Energy Conversion and Management:X - ELSEVIER
Mechanical Engineering Department.
Jordan University of Science and Technology
Irbid 22110
Jordan
Mobile: +962 795936046
Website: www.just.edu.jo

Curriculum Vitae of Moh'd Al-Nimr



Distinguished Professor
Moh'd Ahmad Al-Nimr
(Fellow TWAS and
Professor with one
year seniority)

Mechanical
Engineering
Department,
Jordan University
of Science and
Technology, Irbid
- Jordan.

E-mail:

malnimr@just.edu.jo

❖ Metrics Overview:

- Published about 320 papers in international, refereed and indexed journals.
- Scopus data: $h = 47$ and citations = 8440
- Google Scholar data: $h = 55$ and citations = 10995
- FWCI: 3.55 (Field-Weighted Citation Impact is the ratio of citations received relative to the expected world average for the subject field, publication type, and publication year).

❖ Honors and Awards:

- The State Appreciation Award 2021 جائزة الدولة التقديرية
- Distinguished Professor since 2017.
- Fellow TWAS (The World Academy of Sciences). There are only 5 TWAS members from Jordan.
- Professor with one year seniority (Promoted one year before the official due date).
- TWAS Award 2013: The World Academy of Sciences Award in Engineering (2013). The first Arabian researcher won TWAS Award in Engineering.
- King Abdullah the II Award for Innovation-Renewable Energy, 2011.
- The Scopus award, April 2009.
- The Khwarizmi International Award 2012.
- Khalifa Award for Education: Distinguished University Professor in the Field of Scientific Research (2012).
- Has the highest number of publications among the Jordanian researchers during the period (1995-2005) as indicated by a study conducted by the Islamic Organization for Research, Sciences and Technology. The study was posted on the site of the Islamic Organization under the title: Status of Scientific Research in the OIC Countries.
- Has the highest numbers of publications among Jordanian researchers until 2016.
- Has the highest number of citations among Jordanian Researchers in the Engineering Subjects.
- Ranking the seventh among the leading scientists in the Islamic World according to COMSTECH study published in 2008.
- The Ministry of Higher Education and Scientific Research Award for the Distinguished Researchers in engineering (2006).
- Abed-Alhameed Shoman for Arab Scientists (1994).
- The Hisham Hijjawi Award for Applied Sciences in the field of industry and Energy (2003).
- Ali Mango Award for Distinguished Researcher in Jordan (2013).
- Khalil Al-Salem - Philadelphia University Award for the best research paper in Renewable Energy (2014).
- Jordan University of Science and Technology Trophy for being among 2% top highly cited researchers many times (2019, 2020, 2021, 2022).

- Jordanian Engineering Association Trophy for highly cited researchers (2021).
- Jordan University of Science and Technology Trophy for distinguished achievements November (2013).
- Awarded the Jordan University of Science and Technology medal for distinguished Scientific and Academic Achievements (1997).
- Awarded the Jordan University of Science and Technology medal for distinguished Scientific and Academic Achievements (2006).
- Awarded the Yarmouk University Graduate Club for distinguished graduates (2016).
- The Jordanian Writers Association Award in short stories (2004).
- Placed on the Dean's honor list different times during the B.Sc. at Yarmouk University.
- Ranking the first in the class of 1985, B.Sc., Cumulative average 85.9 %,Yarmouk University.
- Ranking the first in the class of 1987, M.Sc., Cumulative average 91.7%, Jordan University of Science and Technology.
- Scholarship from Jordan University of Science and Technology -to study the Ph.D. degree in the U.S.A., 1989.
- Awarded two times (block grant for the distinguished students in the department) from the University of Michigan- Ann Arbor, U.S.A.
- Has completed the Ph.D. degree in two years (9/89-8/91).

❖ Activities:

• Editorial Activities:

- ✓ Honorary Editor-in-Chief: **Energy Conversion and Management**, 2025-Now. ISSN: 0196-8904. Publisher: Elsevier. Energy Conversion and Management is from the top 3 Journals in Energy.
- ✓ Editor-in-Chief: **Energy Conversion and Management**, 2013-2024. ISSN: 0196-8904. Publisher: Elsevier. Energy Conversion and Management is from the top 3 Journals in Energy.
- ✓ Founding Editor-in-Chief: **Energy Conversion and Management: X**, 2019-2023. ISSN: ISSN: 2590-1745. Publisher: Elsevier. Energy Conversion and Management is from the top 3 Journals in Energy.

- ✓ Editor: Energy Conversion and Management, 2011-2012. ISSN: 0196-8904. Publisher: Elsevier.
- ✓ Associate Editor: Energy Conversion and Management, 2007-2011. ISSN: 0196-8904. Publisher: Elsevier.
- ✓ Editor-in-Chief: International Journal Applied Engineering Research, 2005- 2008. ISSN: 0973-4562 (Print) and 1087--1090 (Online). Publisher: Research India Publications.
- ✓ Member of Editorial Board: Energy Journal – Elsevier, 2008- Now.
- ✓ Member of Book Review Panel: Energy Journal – Elsevier, 2008- Now.
- ✓ Associate Editor: Energy-The International Journal, 2007-now. ISSN: 0360-5442. Publisher: Elsevier.
- ✓ Associate Editor: International Journal of Thermophysics, 2007-now. ISSN: 0195-928X (Print) and 1572-9567 (Online). Publisher: Springer.
- ✓ Associate Editor: The Jordanian Journal of Mechanical and Industrial Engineering, 2008-2012. ISSN: 1995-6665. Publisher: Ministry of Higher Education-Jordan.
- ✓ Associate Editor: Journal of Thermodynamic, 2008-now. ISSN: 1687-9244 (Print) and 1687-9252. Publisher: Hindawi Publishing Corporation.
- ✓ Associate Editor: The Open Thermodynamic Journal, 2008-now. ISSN: 1874-396X. Publisher: Bentham Open.
- ✓ Associate Editor: The Open Hydrology Journal, 2008-now. ISSN 1874-3781. Publisher: Bentham Open.
- ✓ Associate Editor: Journal of Modern Physics and Applications, 2009-now. ISSN 2051-5480. Publisher: SCIK.
- ✓ Associate Editor: Journal of Applied Sciences Research, 2009-now. ISSN 1819-544X. Publisher: AENSI Publications.
- ✓ Associate Member: Rio's International Journal, 2008-now. ISSN 1982-6643. Publisher: Rio Council.
- ✓ Associate Editor: Engineering Journal, 2010-now. ISSN: 1947-3931 (Print) and 1947-394X (Online).
- ✓ Editor: The Journal of the Hellenic Association of Regional Scientists. 2010-now. ISSN: 1791-5961 (Print) and 1791-7735 (Online). Publisher: Hellenic Association of Regional Scientists.
- ✓ Associate Editor: Engineering Management, 2007-now. ISSN: TBD. Publisher: American V-King Scientific Publishing.

- ✓ Associate Editor: Scientific Research, 2008-now. ISSN: 1947-3931 (Print) and 1947-394X (Online). Publisher: Scrip. Scientific Research Publishing Inc.
 - ✓ Associate Editor: Recent Patents on Mechanical Engineering, 2010-now. ISSN: 2212-7976 (Print) and 1874-477X (Online). Publisher: Bentham Science Publications.
 - ✓ Associate Editor: Advances in Applied Physics. 2009-now. Publisher: HIKARI Ltd.
 - ✓ Associate Editor: Far East Journal of Mathematics, 2006-2010.
 - ✓ Associate Editor: International Journal of Thermal and Environmental Engineering (IJTEE), 2010-now. ISSN: 1923-7308 (Print) and 1923-7316 (Online). Publisher: IASKS.
 - ✓ Associate Editor: ISRN Mechanical Engineering, 2010-now. Publisher: Hindawi Publishing Corporation.
 - ✓ Associate Editor: International Journal of Engineering and Technologies: SciPress Ltd. ISSN: 2297-623X
 - ✓ Associate Editor: Scientific Research
 - ✓ Editorial Board: Sustainable Energy Developments: CRC Press.
 - ✓ **Editorial Board: Journal of Solar Energy Research**
 - ✓ Associate Editor and Board Member in many other Journals.
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- **Membership in Conferences Organizing Committees:** Examples: IASTED Conferences; AsiaPES; EuroPES; EPS; MNT; The International Conference on Computational Heat and Mass Transfer; ASME 6th International Conference on Computational Heat and Mass Transfer; The 6th International Conference on Computational Heat and Mass Transfer; The 2nd International Conference on Thermal Engineering Theory and Applications, 2006; Large number of WSEAS conferences.
 - **Active Reviewer for large numbers of Journals and Conferences such as:** Journal of Fluid Mechanics JFM, ASME J. Heat Transfer, ASME Solar Energy Engineering, Numerical Heat Transfer, J. Porous Media, Renewable Energy, International Journal Biomathematics, J. Solar Energy, Heat and Mass Transfer, Transport in Porous Media, Energy- The International Journal, J. Applied Physics, Int. J. Numerical Methods Heat & Fluid Flow, Int. J. Thermophysics, IASTED Conferences, International Journal Thermal Sciences, International Journal Applied Engineering Research, Mu'tah Lil-Buhooth Wa Al-Dirasat, Al-Yarmouk, etc..

- Other Activities:

- ✓ Member in the Board of Trustees: Princess Sumaya University for Technology 2023-Now.
- ✓ Member in TWAS Committee for selecting TWAS Fellows 2017-2018
- ✓ Member in TWAS Committee for selecting TWAS Winners in Engineering 2017-2018.
- ✓ Khalifeh Award Coordinator in Jordan 2015-2016.
- ✓ Coordinator of Tempus Project MEDA 2002/ 30057 in Jordan.
- ✓ Member: The Scientific Research Council at Yarmouke University, 2006-2009.
- ✓ Research Director, Royal Scientific Society 2012-2013.
- ✓ Expert: Evaluating the European Tempus Projects for sex times.
- ✓ Expert: Evaluating the European FP7 Projects.
- ✓ Expert: Evaluating the European Erasmus Mundus projects three times.
- ✓ Served on the Global Selection Panel for the King Abdullah University of Science and Technology's Discovery Scholarship Program, (2007 and 2008).
- ✓ Member: The scientific research support fund committee in the water, energy and environment sector, 2010-2011.
- ✓ Member: The scientific research support fund committee in the energy sector many times during 2012- 2016.
- ✓ Department representative at College Council for two times.
- ✓ Participated in several reviewing committees of faculty members' promotions in the Department and college councils.
- ✓ Reviewer of many academic promotions for candidates from outside Jordan.
- ✓ Reviewer of many International funded projects.
- ✓ Writing short stories and diary and produced Story Collections.
- ✓ Research Scholar at the University of Michigan/Ann-Arbor, summers of 1993 and 1998.
- ✓ Teaching and Research Assistant, Yarmouke and JUST Universities, 1985-1987.
- ✓ Training Program, Port Corporation-Aqapa-Jordan, Summer-1985.
- ✓ President of the energy club in Yarmouke University (1985-1986).

- **Teaching Activities:**

- ✓ Have taught about 20 graduate and undergraduate courses:
- ✓ Graduate Master Courses: Advanced Thermodynamics, Combustion Science, Special Topics in Thermal Power (2 versions), Special Topics in Renewable Energy; Radiation Heat Transfer, Advanced Mathematics for Engineers, Convection Heat Transfer.
- ✓ Graduate Ph.D. level (in Jordan University during my Sabbatical Leave): Advanced Energy Conversion, Advances in Heat Transfer.
- ✓ Undergraduate Courses: Energy Conversion; Applied Mathematics for Engineers 1 and 2; Engineering Economy; Dynamics; Thermodynamics; Instrumentation; Heating and Air Conditioning; Heat Transfer 1 and 2, Heat Transfer Lab; Design of Thermal Systems.

- ❖ **Workshops:**

- Workshop on educational technology and evaluation (the 7th workshop, 22/2-26/2/1994).
- Workshop on educational technology and evaluation: Measurement and evaluation (the 16th workshop, 1/2-3/2/1999).

- ❖ **Research Interest:**

Hybrid Renewable Energy Systems, Mathematical Modeling for Various Thermal and Solar Thermal Systems, Radiation and Acoustical Properties, Heat Transfer in Porous Media, Macro-and Micro-scale Heat Transfer, Heat Transfer and Fluid Flow in Micro-Channels, Heat Transfer in Magneto-hydrodynamic Systems, Heat Transfer in Conventional Systems, Thermal Behavior of Different Solar Thermal Systems, etc ...

- ❖ **Supervising Graduate Students:**

- Cosupervised 6 graduate **Ph.D.** students (Five From University of Jordan and One from Malaysia).

- Supervised and Co-supervised about 115 **M.Sc.** graduate students from JUST and other Universities. Member of the examining committees of large numbers of graduate **M.Sc.** and **Ph.D.** students.

❖ **Supervising Undergraduate Students:**

- Supervised more than 130 undergraduate students in their graduation projects. In average supervising 8 students per year.

❖ **Funded Projects and Technical Studies:**

- The Tempus Project MEDA 2002/ 30057. Budget: \$ 250000
- Research Project: "Solar Disalination System Integrated with Geothermal Cooling". Funded by The King Abdulaziz City for Science and Technology (KACST).
- Member of a scientific Research Group at King Saud University since 2012.
- Two Resrach Funds from JUST.
- Participated in the Faculty For Factory (FFF) Program in Jordan Steel Company during the summer of 2007 on the project: "Energy Saving by the Implementation of a Tri-Generation Energy System".
- Participated in the Faculty for Factory (FFF) Program in Fine Hygienic Paper Company during the summer of 2006 on the project: "Improving the Diaper Performance".
- Participated in the Faculty for Factory (FFF) Program in Al-Nameesh Mills Company during the summer of 2008 on the project: "Cooling by Utilizing Solar Energy".

Publications:

1. Issa, M. and Al-Nimr, M.A.: Temperature distribution inside hot water storage tanks of solar collectors, J. of Solar Energy Engineering ASME 111, pp. 311-317 (1989).
2. El-Shaarawi, M.A. and Al-Nimr, M.A.: Fully developed natural convection in open-ended vertical concentric annuli, Int. J. Heat and Mass Transfer 33, pp. 1873-1884 (1990).

3. El-Shaarawi, M.A. and Al-Nimr, M.A.: Equations for use with computers to evaluate the performance of NH₃-H₂O intermittent solar refrigerators, *Energy Conversion and Management* 30, pp. 315-327 (1990).
4. Issa, M., Kodah, Z. and Al-Nimr, M.A.: Further development of a v-trough solar concentrator, *Int J. Solar Energy* 8, pp. 81-96 (1990).
5. Al-Nimr, M.A.: Unsteady Two Dimensional Temperature Field in Hot Water Storage Tanks, M.S. Thesis, Jordan University of Science and Technology, Irbid, Jordan (1987).
6. Al-Nimr, M.A. and Arpaci, V.S.: Radiative properties of interacting particles, *J. Heat Transfer ASME* 114, pp. 950-957 (1992).
7. Al-Nimr, M.A. and Arpaci, V.S.: Acoustical properties of interacting particles, *Journal of the Acoustical Society of America* 93(2), pp. 813-818 (1993).
8. Al-Nimr, M.A. and Arpaci, V.S.: Acoustical properties of interacting and agglomerated particles, *Journal of Sound and Vibration* 165 (1), pp. 19-30 (1993).
9. Al-Nimr, M.A.: Acoustical and Radiative Properties of Interacting Particles, Ph.D. Thesis, University of Michigan-Ann Arbor (1991).
10. Al-Nimr, M.A. and El-Shaarawi, M.A.: Analytical solutions for transient conjugated heat transfer in parallel plate and circular ducts, *Int. Comm. Heat Mass Transfer* 19, pp. 869-878 (1992).
11. Al-Nimr, M.A.: Temperature distribution inside solar collector storage tank of finite wall thickness, *J. Solar Energy Engineering ASME* 115, pp. 112-116 (1993).
12. Al-Nimr, M.A.: Analytical solution for transient laminar fully developed free convection in vertical concentric annuli, *Int. J. Heat Mass Transfer* 36(9), pp. 2385-2395 (1993).
13. Al-Nimr, M.A.: Transient behavior of a matrix solar air heater, *Energy Conversion and Management* 34 (8), pp. 649-656 (1993).
14. Al-Nimr, M.A.: Transient behavior of a particulate solar collector, *Int. J. Solar Energy* 13(3), pp. 205-211 (1993).

15. Al-Nimr, M.A. and Hader, M.: Transient conjugated heat transfer in the developing laminar pipe flow, J. Heat Transfer ASME 116, pp. 234-236 (1993).
16. Al-Nimr, M.A. and Abou-Arab, T.W.: Transient temperature distribution within a flat sheet during welding process-analytical solution, Heat Transfer Engineering 15(1), pp. 27-33 (1994).
17. Al-Nimr, M.A., Aldoss, T. and Naji, M.I.: Transient forced convection in the entrance region of a porous tube, The Canadian J. of Chemical Engineering 72, pp. 249-255 (1994).
18. Al-Nimr, M.A.: Temperature distributions inside electrical hot- water storage tanks, Applied Energy 48(4), pp. 353-362 (1994).
19. Assar, A.M. and Al-Nimr, M.A.: Fabrication of metal matrix composite by infiltration process. Part 1: modeling of Hydrodynamic and Thermal Behavior, J. of Composite Materials 28(15), pp. 1480-1490 (1994).
20. Al-Nimr, M.A. and Arpaci, V.S.: Optical properties of interacting particles, Applied Optics, Vol. 33(36), pp. 8412-8416 (1994).
21. Al-Nimr, M.A.: Fully developed free convection in open-ended vertical concentric porous annuli, Int. J. Heat Mass Transfer, Vol. 38(1), pp. 1-12 (1995).
22. Al-Nimr, M.A.: Dynamic behavior of a cylindrical matrix solar air heater, Renewable Energy, Vol. 4(5), pp. 579-583 (1994).
23. Al-Nimr, M.A., Al-Jarrah M. and Al-Shyyab, A.S.: Trial solution methods to solve unsteady PDE, Int. Comm. Heat Mass Transfer Vol. 21(5), pp. 743-753 (1994).
24. Al-Nimr, M.A.: MHD free-convection flow in open-ended vertical concentric porous annuli, Applied Energy Vol. 50, pp. 293-311 (1995).
25. Al-Nimr, M.A., Aldoss, T. and Naji, M.: Transient forced convection in the entrance region of porous concentric annuli, The Canadian Journal of Chemical Engineering, Vol. 72, pp. 1092-1096 (1994).

26. El-Shaarawi, M., Al-Nimr, M.A. and Hader, M.A.: Transient conjugated heat transfer in concentric annuli, *Int. J. Numerical Methods For Heat & Fluid Flow*, Vol. 5(5), pp. 459-473 (1995).
27. Al- Nimr, M.A., Abu- Qudais M.K. and Mashaqi, M.: Dynamic behavior of a packed bed energy storage system, *Energy Conversion and Management*, Vol. 37(1), pp. 23-30 (1996).
28. Al- Nimr, M.A., Darabseh, T.: Analytical solution for transient laminar fully developed free convection in open-ended vertical concentric porous annuli, *J. Heat Transfer (ASME)*, Vol. 117, pp. 762-765 (1995).
29. Al-Nimr, M.A.: A comparison between the steady state performance of particulate and conventional tubeless collectors, *Energy Conversion and Management*, Vol. 36(10), pp. 1007-1014 (1995).
30. Al-Nimr, M.A., and El-Shaarawi, M.A.: Analytical solution for transient laminar fully developed free convection in vertical channels, *Heat and Mass Transfer*, Vol. 30, pp. 241-248 (1995).
31. Abu-Qudais, M.K. and Al-Nimr, M.A.: A theoretical and experimental study of matrix solar air heater under transient condition, *Int. J. Solar Energy*, Vol. 18(3), pp. 137-146 (1996).
32. Aldoss, T.K., Al-Nimr, M.A., Jarrah, M.A. and Al-Sha'er, B.J.: MHD mixed convection from a vertical plate embedded in a porous medium, *Numerical Heat Transfer*, Vol. 28, pp. 635-645 (1995).
33. Al-Nimr, M. A., Arpaci, V. S. and Najjar, Y. S.: Temperature and soot concentration in a high soot density flame, *Int. J. Heat Mass Transfer*, Vol. 39(6), pp. 1235-1241 (1996).
34. Aldoss, T.K., Ali, Y.D. and Al-Nimr, M.A.: MHD mixed convection from a horizontal circular cylinder, *Numerical Heat Transfer*, Vol. 30(4), pp. 379-396 (1996).
35. Al-Nimr, M.A., and Masoud, S.: Non-equilibrium laser heating of metal films, *J. Heat Transfer (ASME)*, Vol. 119, pp. 188-190 (1997).
36. Al-Nimr, M.A., and Damseh, R.: Dynamic behavior of baffled solar air heaters, *The 6th international energy conference and exhibition*, Beijing, China (1996).

37. Al- Nimr, M.A., Darabseh, T.: Analytical solution for transient laminar fully developed free convection in open-ended vertical channel embedded in porous media, J. Applied Mechanics and Engineering, Vol. 2(1), pp. 9-32 (1997).
38. Al- Nimr, M.A.: Phase equilibrium analysis using cubic equation of state, Int. J. Energy Research, Vol. 21, pp. 1133-1143 (1997).
39. Al- Nimr, M.A., Alkam, M. K.: Film condensation on a vertical plate imbedded in a porous medium, Applied Energy, Vol. 56(1), pp. 47-57 (1997).
40. Al-Nimr, M.A.: Transient response of finite wall capacitance heat exchanger with phase change, Heat Transfer Engineering, Vol. 19(1), pp. 42-52 (1998).
41. Al-Nimr, M.A.: Heat transfer mechanisms during laser heating of thin metal films, Int. J. Thermophysics, Vol. 18: 5, pp. 1257-1268 (1997).
42. Al-Nimr, M.A. and Alkam, M. K.: A generalized thermal boundary condition, Heat and Mass Transfer, Vol. 33, pp. 157-161 (1997).
43. Al- Nimr, M.A.: A simple approach to solve conjugated heat transfer problems in circular and parallel plate ducts, Int. J. Energy Research, Vol. 22, pp. 161-168 (1998).
44. Alkam, M. K. and Al-Nimr, M.A.: Transient non-Darcian forced convection flow in a pipe partially filled with a porous material, Int. J. Heat Mass Transfer, Vol. 41(2), pp. 347-356 (1998).
45. Al-Nimr, M.A.: Diffusive and wavy behavior of conduction heat transfer, Almohandes Alurdoni Journal, No. 62, pp. 71-73 (1997).
46. Al-Nimr, M.A., and Alkam, M. K.: Unsteady non-Darcian fluid flow in parallel plates channels partially filled with porous materials, Heat and Mass Transfer, Vol. 33, pp. 315-318 (1998).
47. Al-Nimr, M.A., and Alkam, M.: Unsteady non-Darcian forced convection analysis in an annulus partially filled with a porous material, J. Heat Transfer (ASME), Vol. 119, pp. 799-804 (1997).

48. Al-Nimr, M.A., and Alkam, M.: A modified tubeless solar collector partially filled with porous substrate, *Renewable Energy*, Vol. 13(2), pp. 165-173 (1998).
49. Al-Nimr, M.A.: Dynamic thermal behavior of cooling towers, *Energy Conversion and Management*, Vol. 39(7), pp. 631-636 (1998).
50. Al-Nimr, M.A., and Haddad O. M.: Water distiller/condenser by radiative cooling of ambient air, *Renewable Energy*, Vol. 13(3), pp. 323-331 (1998).
51. Al-Nimr, M.A.: Solar pond transient behavior- Analytical modeling, *Int. J. Solar Energy*, Vol. 19, pp. 275-290 (1998).
52. Al-Nimr, M.A., Kiwan, S. and Al-Alwah, A.: Size optimization of conventional solar collectors, *Energy- The International Journal*, Vol. 23(5), pp. 373-378 (1998).
53. Al-Nimr, M.A., and Damseh, R.: Dynamic behavior of baffled solar air heaters, *Renewable Energy*, Vol. 13(2), pp. 153-163 (1998).
54. Alkam, M., Al-Nimr, M.A. and Mousa, N. Z.: Transient forced convection of non-Newtonian fluid in the entrance region of porous concentric annuli, *Int. J. Numerical Methods For Heat & Fluid Flow*, Vol. 8(5), pp. 703-716 (1998).
55. Al-Nimr, M.A., Kodah, Z. and Nassar, B.: A theoretical and experimental investigation of a radiative cooling system, *The second international symposium on radiation transfer*, 21-25 July, 1997, Kusadasi, Turkey.
56. Al-Nimr, M. A. and Haddad, O.: Fully developed free convection in open-ended vertical channel partially filled with porous material, *Journal of porous media*, Vol. 2(2), pp. 179-189 (1998).
57. Al- Nimr, M.A.: A simplified approach to solving conjugate heat transfer problems in annular and dissimilar parallel plate ducts, *Int. J. Energy Research*, Vol. 22, pp. 1055-1064 (1998).
58. Al-Nimr, M.A.: Modeling of the dynamic thermal behavior of cooling towers containing packing materials, *Heat Transfer Engineering*, Vol. 20(1), pp. 91-96 (1999).

59. Al-Nimr, M.A., and Masoud, S.: Unsteady free convection flow over a vertical flat plate immersed in a porous medium, *Fluid Dynamic Research*, Vol. 23(3), pp. 153-160 (1998).
60. Alkam, M. and Al-Nimr, M.A.: Solar collector with tubes partially filled with porous substrate, *ASME J. of Solar Energy Engineering*, Vol. 121, pp. 20-24 (1999).
61. Al-Nimr, M.A., Kodah, Z. and Nassar, B.: Theoretical and experimental investigation to predict the radiative behavior of a cooling system by radiation effects, *Solar Energy*, Vol. 63(6), pp. 367-373 (1998).
62. Al-Nimr, M.A., and Alkam, M.: Magneto-hydrodynamics transient free convection in open-ended vertical annuli, *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 13(2), pp. 256-265 (1999).
63. Al-Nimr, M.A., and Abdallah, M. R.: Thermal behavior of insulated electric wires producing pulsating signals, *Heat Transfer Engineering*, Vol. 20(4), pp. 62-71 (1999).
64. Al-Nimr, M.A., Tahat, M. and Al-Rashadan, M.: A night cold storage system enhanced by radiative cooling-A modified Australian cooling system, *Applied Thermal Engineering*, Vol. 19, pp. 1013-1026 (1999).
65. Al-Nimr, M.A., and Arpaci, V. S.: Pico-second thermal pulses in thin metal films, *Journal of Applied Physics*, Vol. 85(5), pp. 2517-2521 (1999).
66. Al-Nimr, M.A., and Hader, M. A.: MHD free convection flow in open-ended vertical porous channels, *Chemical Engineering Science*, Vol. 54(12), pp. 1883-1889 (1999).
67. Al-Nimr, M.A. and Alkam, M. K.: Basic fluid flow problems in porous domains, *Journal of Porous Media*, Vol. 3(1), pp. 45-59 (2000).
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69. El-Shaarawi, M., Al-Nimr, M.A. and Aliah, M.: Transient conjugate heat transfer in a porous medium in concentric annuli, *Int. J. Numerical Methods For Heat and Fluid Flow*, Vol. 9(4), pp. 444-460 (1999).
70. Alkam, M. K. and Al- Nimr, M.A.: Solutions for classical fluid flow problems in porous domains, *JSME International Journal, Series B*, Vol. 42(2), pp. 206-213 (1999).
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72. Al-Huniti, Naser S. and Al- Nimr, M.A.: Behavior of thermal stresses in a rapidly heated thin plate, *J. Thermal Stresses*, Vol. 23(4), pp. 293-308 (2000).
73. Masoud, S., Al- Nimr, M.A. and Alkam, M.: Transient film condensation on a vertical plate imbedded in porous medium, *Transport in Porous Media*, Vol. 40, pp. 345-354 (2000).
74. Al-Nimr, M.A. and Naji, M.: The hyperbolic heat conduction equation in an anisotropic material, *International Journal of Thermo-physics*, Vol. 21: 1, pp. 281-287 (2000).
75. Al-Nimr, M.A., Haddad, O. M. and Arpaci, V.: Thermal behavior of metal films-A hyperbolic two-step model, *Heat and Mass Transfer*, Vol. 35(6), pp. 459-464 (1999).
76. Naji, M., Al-Nimr, M.A. and Masoud, S.: Transient thermal behavior of cylindrical brake system, *Heat and Mass Transfer*, Vol. 36, pp. 45-49, (2000).
77. Masoud, S., Hassan, A. and Al-Nimr, M.A.: Mass diffusion into two-layer media, *Heat and Mass Transfer*, Vol. 36, pp. 173-176, (2000).
78. Al-Nimr, M.A., Naji, M. and Arpaci, V.: Non-equilibrium entropy production under the effect of dual-phase lag heat conduction model, *ASME J. Heat Transfer*, Vol. 122, pp. 217-223 (2000).
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with porous material” by D. A. Nield. J. Porous Media, Vol. 4(1), pp. 101-102 (2001).

80. Al- Nimr, M.A. and Al-Huniti, Naser S.: Transient thermal stresses in a thin elastic plate due to a rapid dual-phase-lag heating, J. Thermal Stresses, Vol. 23, pp. 731-746 (2000).
81. Al-Nimr, M.A., M. H. Okor and Kiwan, S.: Liquid seeping into porous medium, Heat and Mass Transfer, Vol. 37(2/3), pp. 157-160 (2001).
82. Haddad, O. M., Al-Nimr, M.A., and Maqableh, A.: Enhanced solar still performance using a radiative cooling system, Renewable Energy, Vol. 21, pp. 459-469 (2000).
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Patents:

1. Patent Numbeerr: 2895: An Integrated Direct Absorption Self-Storage Solar Collector.

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