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Curriculum Vitae of Moh'd Al-Nimr

Distinguished Professor
Moh'd Ahmad Al-Nimr

(Fellow TWAS and Professor with one year seniority)

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❖ Metrics Overview:

- Published more than 305 papers in international, refereed and indexed journals.
- **Scopus data**: h = 41 and citations = 6150.
- **Google Schoolar** data: h= 49 and citations = 8150.

❖ **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:**

✓ Editor-in-Chief: **Energy Conversion and Management**, 2013-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: X**, 2019-now. ISSN: ISSN: 2590-1745. Publisher: Elsevier. Energy Conversion and Management is from the top 3 Journals in Energy.

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✓ 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.
- ✓ 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: Sustianable Energy Developments: CRC Press.
- ✓ **Editorial Board: Journal of Solar Energy Research**
- ✓ Associate Editor and Board Member in many other Journals.

- **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 TWAS Committee for selecting TWAS Fellows 2017-2018

- ✓ Member in TWAS Committee for selecting TWAS Winners in Engineering 2017-2018.
- ✓ Khalifeh Award Coordinater 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, 2010-1011.
- ✓ 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 tought 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 Sabbartical 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 Malysia).
- ➢ Supervised and Co-supervised about 71 **M.Sc.** graduate students from JUST and other Universities.Member of the examining committees of large mumbers 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 Thermo-physics 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).

68. Alkam, M. K. and Al- Nimr, M.A.: Improving the performance of double-pipe heat exchangers by using porous substrates, Int. J. Heat Mass Transfer, Vol. 42(19), pp. 3609 (1999).

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).

71. Al-Nimr, M.A., and Arpaci, V. S.: The thermal behavior of thin metal films in the hyperbolic two-step model, Int. J. Heat Mass Transfer, Vol. 43, pp. 2021-2028, (2000).

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).

79. Al-Nimr, M.A. and Haddad, O.: The closure of: Comments on ”Fully developed free convection in open-ended vertical channels partially filled 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).

83. Kiwan, S., and Al-Nimr, M.A.: Effect of radiative losses on the parabolic two-step heat conduction model, Japanese Journal of Applied Physics, Vol. 39, pp. 4245-4248 (2000).

84. Naji, M., Al-Nimr, M.A., and Al-Huniti, N.: Thermal stresses in a rapidly heated parabolic two-step heat conduction equation, Journal of Thermal Stresses, Vol. 24(5), pp. 399-410 (2001).

85. Al-Nimr, M.A., and Hader, M.: Melting and solidification under the effect of phase-lag concept in the hyperbolic conduction equation, Heat Transfer Engineering, Vol. 22(2), pp. 1-8 (2001).

86. Al-Nimr, M.A., and Kiwan, S.: Effect of thermal losses on the microscopic two-step heat conduction model, Int. J. Heat Mass Transfer, Vol. 44(5), pp. 1013-1018 (2001).

87. Abu-Hijleh, B. and Al-Nimr, M.A.: The effect of the local inertial term on the fluid flow in channels partially filled with porous material, Int. J. Heat Mass Transfer, Vol. 44(8), pp. 1565-1572 (2001).

88. Hamdan, M., Al-Nimr, M.A. and Alkam, M.: Enhancing forced convection by inserting porous substrate in the core of a parallel-plate channel, Int. J. Numerical Methods for Heat and Fluid Flow, Vol. 10(5), pp. 502-517 (2000).

89. Kiwan, S. and Al-Nimr, M.A.: Using porous fins for heat transfer enhancement, ASME J. Heat Transfer, Vol. 123(4), pp. 790-795 (2001).

90. Al-Nimr, M.A., Hader, M. and Naji, M.: Transient pulsating flow in channels partially filled with a porous material, Journal of Porous Media, Vol. 4(2), pp. 187-193 (2001).

91. Al-Nimr, M.A., and Naji, M.: On the phase-lag effect on the non-equilibrium entropy production, Micro-Scale Thermo-physical Engineering, Vol. 4(4), pp. 231-245 (2000).

92. Alkam, M., Al-Nimr, M.A. and Hamdan, M.: Enhancing heat transfer in parallel-plate channels by using porous inserts, Int. J. Heat and Mass Transfer, Vol. 44(5), pp. 931-938 (2001).

93. Al-Nimr, M.A., Hassan, A. and Masoud, S.: Diffusion bonding in multi-layers systems, Heat and Mass Transfer, Vol. 37(2/3), pp. 271-273 (2001).

94. Kiwan, S., and Al-Nimr, M.A.: Temperature of circular rods due to rotational and oscillatory axial sliding motion, International Journal of Thermal Sciences, Vol. 40, pp. 392-399 (2001).

95. Kiwan, S., Al-Nimr, M.A., and Al-Sharo'a: Trial solution methods to solve the hyperbolic heat conduction equation, International Communications in Heat and Mass Transfer, Vol. 27(6), pp. 865-876 (2000).

96. Alkam, M. and Al-Nimr, M.A.: Transient flow hydrodynamics in circular channels partially filled with a porous material, Heat and Mass Transfer, Vol. 37(2/3), pp. 133-137 (2001).

97. Al-Nimr, M.A., and Haddad, O. M.: The phase-lag concept in the thermal behavior of lumped systems, Heat and Mass Transfer, Vol. 37(2/3), pp. 175-181 (2001).

98. Al-Huniti, N., Al-Nimr, M.A., and Naji, M.: Dynamic response of a rod due to a moving heat source under the hyperbolic heat conduction model, J. Sound and Vibration, Vol. 242(4), pp. 629-640 (2000).

99. Alkam, M., Al-Nimr, M.A. and Hamdan, M. O.: On forced convection in channels partially filled with porous substrates, Heat and Mass Transfer, Vol. 38, pp. 337-342 (2002).

100. Al-Nimr, M.A. and Abu-Hijleh, B. A.: Validation of the thermal equilibrium assumption in the transient conjugated forced convection channel flow, Heat and Mass Transfer, Vol. 37(4/5), pp. 361-369 (2001).

101. Al-Nimr, M.A. and Kiwan, S.: Examination of the thermal equilibrium assumption in periodic forced convection in a porous channel, J. Porous Medium, Vol. 5(1), pp. 35-40 (2002).

102. Kiwan, S. and Al-Nimr, M.A.: Analytical solution for conjugated heat transfer in pipes and ducts, Heat and Mass Transfer, Vol. 38(6), pp. 513-516 (2002).

103. Al-Nimr, M.A., Alkam, M. and Arpaci, V. S.: Heat transfer mechanisms during short-pulse laser heating of two-layer composite thin films, Heat and Mass Transfer, Vol. 38(7-8), pp. 609-614 (2002).

104. Naji, M. and Al-Nimr, M.A.: Temperature and thermal stresses in a two-layer slab under the effect of the hyperbolic heat conduction model, Accepted for presentation in the Fourth International Congress on Thermal Stresses (Thermal Stresses 2001), JAPAN (2001).

105. Al-Nimr, M.A., Daqqaq, M. F. and Hader, M. A.: Effect of working fluids on the performance of a novel summer air conditioning system, Int. Communications in Heat and Mass Transfer, Vol. 28(4), pp. 565-573 (2001).

106. Hader, M., Al-Nimr, M.A., and Daqqaq, M. F.: Effect of operating pressure on the performance of a novel summer air conditioning system, Accepted in IASTED International Conference on Power and Energy Systems (EuroPES2001), Rhodes-Greece (2001).

107. Haddad, O. M., Al-Nimr, M.A., and Silieti, M.: The effect of the gas-gap formation due to shrinkage on the rate of heat transfer during solidification, Numerical Heat Transfer Journal, Vol. 40(8), pp. 887-900 (2001).

108. Al-Nimr, M.A., Abu Nabah, B. A. and Naji, M.: A novel summer air conditioning system, Energy Conversion and Management, Vol. 43(14), pp. 1911-1921 (2002).

109. Hader, M. and Al-Nimr, M.A.: Thermal behavior of a thin layer carrying pulsating signals in the dual-phase-lag model, Heat Transfer Engineering, Vol. 23(3), pp. 35-41 (2002).

110. Al-Nimr, M.A. and Abu-Hijleh, B.: Validation of thermal equilibrium assumption in transient forced convection flow in porous channel, Transport in Porous Media, Vol. 49, pp. 127-138 (2002).

111. Naji, M. and Al-Nimr, M.A.: Thermal behavior of a porous electric heater in the dual-phase-lag model, Applied Thermal Engineering Journal, Vol. 22(4), pp. 449-457 (2002).

112. Al-Nimr, M.A., Abu-Hijleh, B. and Hader, M.: Effect of thermal losses on the microscopic hyperbolic heat conduction model, Heat and Mass Transfer, Vol. 39, pp. 201-207 (2003).

113. Naji, M., Al-Nimr, M.A., and Hader, M.: Temperature and thermal stress behavior of a brake system-Lumped analysis, International Journal of Heat and Technology, Vol. 19(1), pp. 75-84 (2001).

114. Haddad, O. M., Al-Nimr, M.A., and Abu-Ayyad, M.: Numerical simulation of forced convection flow past a parabolic cylinder embedded in porous media, International Journal Numerical Methods in Heat and Fluid Flow, Vol. 12(1), pp. 6-28 (2002).

115. Al-Nimr, M.A. and Abu Nabah, B. A.: The second generation of superconductive materials, Almohandes Alurdoni Journal, No. 72, pp. 45-47 (2002).

116. Al-Nimr, M.A., Khadrawi, A. F. and Hammad, M., A generalized thermal boundary condition for the hyperbolic heat conduction model, Heat and Mass Transfer, Vol. 39, pp. 69-79 (2002).

117. Khadrawi, A. F., Al-Nimr, M.A., and Hammad, M., Thermal behavior of perfect and imperfect contact composite slab under the effect of the hyperbolic heat conduction model, International Journal of Thermo-physics, Vol. 23(2), pp. 581-598 (2002).

118. Hader, M., Al-Nimr, M.A., and Daqqaq, M. F.: Effect of operating pressure on the performance of a novel summer air conditioning system, Heat and Mass Transfer, Vol. 39, pp. 395-400 (2003).

119. Al- Nimr, M.A., Odat, M. and Hamdan, M., Superconductors thermal stability under the effect of the hyperbolic heat conduction model, JSME International Journal, Series B, Vol. 45(2), pp. 432-438 (2002).

120. Al-Odat, M., Al- Nimr, M.A., and Hamdan, M., Thermal stability of superconductor under the effect of a two-dimensional hyperbolic heat conduction model, International Journal Numerical Methods in Heat and Fluid Flow, Vol. 12(2), pp. 163-177 (2002).

121. Khadrawi, A., and Al- Nimr, M.A., The effect of the local inertial term on the free convection fluid flow in vertical channels partially filled with porous media, ASME Fluids Engineering Summer Conference, Montreal-Canada (July 14-18, 2002).

122. Odat, M., Al- Nimr, M. A., and Hamdan, M., Superconductors thermal stability under the effect of the dual-phase-lag heat conduction model, International Journal Thermo-physics, Vol. 23(3), pp. 855-868 (2002).

123. Naji, M., Al-Nimr, M.A., and Mallouh, M.: Thermal stresses under the effect of the microscopic heat conduction model, J. Thermal Stresses, Vol. 26(1), pp. 41-53 (2003).

124. Al- Nimr, M.A., and Khadrawi, A.: Transient free convection fluid flow in domains partially filled with porous media, Transport in Porous Media, Vol. 51(2), pp. 157-172 (2003).

125. Abu-Hijleh, B., and Al-Nimr, M.A.: Thermal equilibrium in transient conjugated forced convection channel flow, Numerical Heat Transfer, Part A, Vol. 43, pp. 327-339 (2003).

126. Haddad, O. M., and Al-Nimr, M.A.: Transient behavior of a radiative distiller/condenser system, Applied Energy, Vol. 71(4), pp. 341-349 (2002).

127. Khadrawi, A., and Al- Nimr, M.A.: The effect of the local inertial term on the transient free convection from a vertical plate inserted in a semi-infinite domain partly filled with porous material, The First International Conference on Applications of Porous Materials, Jerba-Tunis, 2-8 June, 2002.

128. Khadrawi, A., and Al- Nimr, M.A.: The effect of the local inertia term on the free convection fluid flow in vertical channels partially filled with porous media, The 2002 ASME Fluids Conference: ASME Fluids Engineering General Papers Sessions, FEDSM-2002, USA. on Applications of Porous Materials, Jerba-Tunis, 2-8 June, 2002.

129. Dababneh, A., and Al- Nimr, M.A.: A reverse osmosis desalination unit, Desalination Journal, Vol. 153, pp. 265-272 (2003).

130. Khadrawi, A., and Al- Nimr, M.A.: The effect of the local inertial term on the free convection fluid flow in vertical channels partially filled with porous media, J. Porous Media, Vol. 6(1), pp. 59-70 (2003).

131. Al- Nimr, M.A. and Naji, M.: The performance of porous electric heaters, Heat Transfer Engineering, Vol. 24(2), pp. 69-75 (2003).

132. Khadrawi, A. and Al- Nimr, M.A.: A perturbation technique to solve conjugated heat transfer problems in circular ducts, Heat Mass Transfer, Vol. 39, pp. 125-130 (2003).

133. Al-Nimr, M.A., Hader, M. and Naji, M.: Use of the microscopic parabolic heat conduction model in place of the macroscopic model: Validation criterion under harmonic boundary heating, Int. J. Heat Mass Transfer, Vol. 46(2), pp. 333-339 (2003).

134. Hader, M., Al-Nimr, M.A., and Abu Nabah, Bassam: The dual-phase-lag heat conduction model in thin slab under fluctuating volumetric thermal disturbance, Int. J. Thermophysics, Vol. 23(6), pp. 1669-1680 (2002).

135. Al-Nimr, M.A., and Abdel-Jabbar: The dual-phase-lag conduction model in thin slab under fluctuating boundary thermal disturbance, Heat Transfer Engineering, Vol. 24(5), pp. 47-54 (2003).

136. Naji, M., Al-Nimr, M.A., and Hader, M.: The validity of using the microscopic hyperbolic heat conduction model under harmonic fluctuating boundary heating source, Int. J. Thermo-physics, Vol. 24(2), pp. 545-557 (2003).

137. Al-Huniti, N., Al-Nimr, M.A. and Meqdad, M. M.: Thermally induced vibration in a thin plate under the wave heat conduction model, Journal of Thermal Stresses, Vol. 26(10), pp. 943-962 (2003).

138. Khadrawi, A. F., Tahat, Montasser and Al- Nimr, M.A.: Examination of the thermal equilibrium assumption in periodic natural convection in porous domains, The Eleventh International Conference on Computational Methods and Experimental Measurements (CMEM 2003), 12-14 May 2003, Halkidiki, Greece.

139. Al-Nimr, M.A., and Alkam, M.: Overshooting phenomenon in the hyperbolic Al microscopic heat conduction model, Int. J. Thermo-physics, Vol. 24(2), and pp. 577-583 (2003).

140. Al-Huniti N. and Al-Nimr, M.A.: Thermal stresses in a composite slab due to a rapid dual-phase-lag laser heating, The Fifth International Congress on Thermal Stresses and Related Topics: Thermal Stresses 2003: June 8-11, 2003: Blacksburg, VA, USA.

141. Al-Odat, M. and Al- Nimr, M.A., Thermal stability of composite superconducting tape under effect of a two-dimensional dual-phase-lag heat conduction model, Heat and Mass Transfer , Vol. 40, pp. 211-217 (2004).

142. Khadrawi, A., Tahat, Montasser and Al- Nimr, M.A.: Examination of the thermal equilibrium assumption in periodic natural convection in porous domains using Darcy-Brinkman Forchheimer model, The Third International Conference on Computational Heat and Mass Transfer, Banff, May 5-9, 2003, Canada.

143. Khadrawi, A. and Al-Nimr, M.A.: Examination of the thermal equilibrium assumption in transient natural convection flow in porous channel, Transport in Porous Media, Vol. 53(3), pp. 317-329 (2003).

144. Al-Nimr, M. A., Naji, M. and Al-Wardat, S.: Overshooting phenomenon in the hyperbolic heat conduction model, Journal of Applied Physics, Vol. 85(5), pp. 2517-2521 (2003).

145. Al-Nimr, M. A. and Al-Odat, M., Superconductor thermal stability under the effect of a two-dimensional dual-phase-lag heat conduction model, Journal of Superconductivity: Incorporating Novel Magnetism, Vol. 16(5), pp. 869 (2003).

146. Al-Nimr, M. A., Naji, M. and Al-Wardat, S.: Thermal behavior of thin slab as described by the parabolic microscopic heat conduction model with variable thermal properties, International Journal of Thermal Sciences, Vol. 43, pp. 165-171 (2004).

147. Alata, M., Al-Nimr, M. and Naji, M.: Transient behavior of a thermoelectric device under the hyperbolic heat conduction model, Int. J. Thermophysics, Vol. 24(6), pp. 1753-1768 (2003).

148. Alata, M. and Al-Nimr, M.: A fuzzy model of the automatic mixing system with a circulation pump, Proceeding of the IASTED International Conference, PowerCon 2003-Special Theme: Blackout, pp. 237-242, EuroPes 2003, September 03-05, 2003, Marbella, Spain.

149. Naji, M., Alata, M. and Al-Nimr, M.: Transient behavior of a thermoelectric device, Journal of Power and Energy, Vol. 217, pp. 615-621 (2003).

150. Al-Odat, M. and Al-Nimr, M.: Thermal stability of an isotropic super conducting wires/cylinders under the effect of dual-phase-lag heat conduction model, Japanese Journal of Applied Physics, Vol. 42, pp. 6853-6858 (2003).

151. Al-Nimr, M. and Aldoss, T. K.: The effect of the macroscopic local inertial term on the non-Newtonian fluid flow in channels filled with porous media, Int. J. Heat and Mass Transfer, Vol. 47, pp. 125-133 (2004).

152. Hader, M., Al-Nimr, M. and Hammoudeh, V.: Examination of the thermal equilibrium assumption in the microscopic parabolic heat conduction model under the effect of two types of heating sources, Heat Transfer Engineering, Vol. 26(2), pp. 75-80 (2005).

153. Aldoss, T.K., Al-Nimr, M. A. and Hader, M.: Using capsulated liquid metal fins for heat transfer enhancement, J. Enhanced Heat Transfer, Vol. 11(2), pp. 151-160 (2004).

154. Al-Nimr, M. A., Aldoss, T. K. and Abuzaid, M. M.: Effect of the macroscopic local inertial term on the non-Newtonian free convection flow in channels filled with porous materials, J. Porous Media, Vol. 8(4), pp. 421-430 (2005).

155. Haddad, O. M., Al-Nimr, M. A. and Al-Khateeb, A.: Validity of the local thermal equilibrium assumption in natural convection from a vertical plate embedded in porous medium: Non-Darcian model, Int. J. Heat Mass Transfer, Vol. 47, pp. 2037-2042 (2004).

156. Naji, M., Al-Nimr, M. A. and Abu-Surour, R.: Thermal stresses in a slab subjected to fluctuating wall thermal disturbance under the effect of dual-phase-lag heat conduction model, International Journal of Heat and Technology, Vol. 22(1), pp. 145-152 (2004).

157. Khadrawi, A. and Al-Nimr, M. A.: The validity of using the microscopic parabolic heat conduction model in place of the macroscopic parabolic model under the effect of a moving heating source, Int. J. Thermophysics, Vol. 25 (3), pp. 931-947 (2004).

158. Al-Huniti, N. S. and Al-Nimr, M. A., Thermo elastic behavior of a composite slab under a rapid dual-phase-lag heating, Journal Thermal Stresses, Vol. 27, pp. 607-623 (2004).

159. Al-Huniti, N. S., Al-Nimr, M. A. and Da'as, M. A., Transient variations of thermal stresses and the resulting residual stresses within a thin plate during welding processes, Journal Thermal Stresses, Vol. 27(8), pp. 671-689, (2004).

160. Haddad, O. M., Al-Nimr, M. A. and Al-Khateeb, A. : Validity of the local thermal equilibrium assumption in natural convection from a vertical plate embedded in porous medium, J. Porous Media, Vol. 8(1), pp. 1-11 (2005).

161. Al-Nimr, M. A., Naji, M. and Abdallah, R. I.: Thermal behavior of a multi-layered thin slab carrying pulsating signals under the effect of the dual-phase-lag heat conduction model, International Journal of Thermophysics, Vol. 25 (3), pp. 949-965 (2004).

162. Al-Huniti, N. S. and Al-Nimr, M. A., Thermo elastic response of a heated thin composite plate using the hyperbolic heat conduction model: Lumped analysis, International Journal Thermal Sciences, Vol. 43(10), pp. 959-965 (2004).

163. Khadrawi, A. F., Al-Nimr, M. A. and Tahat, Montasser, Dual-phase-lag heat conduction model in thin slab under the effect of a moving heating source, International Communication Heat Mass Transfer, Vol. 31(7), pp. 1015-1026 (2004).

164. Abu-Hijleh, B. A., Al-Nimr, M. A. and Hader, M. A.: Thermal equilibrium in transient forced convection porous channel flow, Transport in Porous Media, Vol. 57, pp. 49-58 (2004).

165. Al-Huniti, N. S. and Al-Nimr, M. A.: Dynamic thermoelastic response of a heated thin composite plate using the hyperbolic heat conduction model, International J. Heat and Technology, Vol. 22(1), pp. 179-189 (2004).

166. Aldoss, T. K., Al-Nimr, M. A. and Khadrawi, A. F.: Effect of the local acceleration term on the MHD transient free convection flow over a vertical plate, Int. J. Numerical Methods for Heat and Fluid Flow, Vol. 15(3), pp. 296-305 (2005).

167. Khashan, S. A., Al-Amiri, A. M. and Al-Nimr, M. A.: Local thermal non-equilibrium effect on developing forced convection through porous pipes, Accepted for presentation in the International Conference on Thermal Engineering Theory and Applications, Beirut, Lebanon, May 31-June 4, 2004.

168. Al-Odat, M. Q., Damseh, R. A. and Al-Nimr, M. A.: Effect of magnetic field on entropy generation due to laminar forced convection past a horizontal flat plate, Entropy, Vol. 6(3), pp. 293-303 (2004).

169. Al-Huniti, N. S. and Al-Nimr, M. A.: Dynamic thermoelastic response of a heated thin composite plate using the dual-phase-lag heat conduction model, Heat Transfer Engineering, Vol. 26(9), pp. 41-49 (2005).

170. Alata, M., Al-Nimr, M. A. and Qaroush, Y.: Developing of a multipurpose sun tracking system using fuzzy control, Energy Conversion and Management, Vol. 46, pp. 1229-1245 (2005).

171. Khadrawi, A. F. and Al-Nimr, M. A.: The effect of the local inertial term on the transient free convection from a vertical plate inserted in a semi-infinite domain partly filled with porous material, Transport in Porous Media, Vol. 59, pp. 139-153 (2005).

172. Al-Nimr, M. A. and Khadrawi, A. F.: Thermal behavior of stagnant gas confined in a horizontal micro-channel as described by the dual-phase-lag heat conduction model , International J. Thermophysics, Vol. 25(6), pp. 1953-1964 (2004).

173. Khadrawi, A. F. and Al-Nimr, M. A.: Microscopic vs. macroscopic hyperbolic heat conduction: Validation criterion under the effect of a moving heating source, Heat Transfer Engineering, Vol. 26(10), pp. 73-79 (2005).

174. Khashan, S., Al-Amiri, A. M. and Al-Nimr, M. A.: Assessment of the local thermal non-equilibrium condition in developing forced convection flows through fluid-saturated porous tubes, Applied Thermal Engineering , Vol. 25(10), pp. 1429-1445 (2005).

175. Abdulla , F., Widyan, M., Al-Ghazawi, Z., Kiwan, S., Abu-Qdais, H., Hayajneh, M., Harb, A. and Al-Nimr, M. A,: Status of Jordan Renewable Energy Sectors: Problems, Needs, and Challenges, Beirut Regional Workshop on Energy Efficiency and Renewable Energy Technology, Beirut, Lebanon, April 26-30, 2004.

176. Haddad, O. M., Abuzaid, M. M. and Al-Nimr, M. A.: Entropy generation due to laminar incompressible forced convection through parallel-plates micro-channel, Entropy, Vol. 6(5), pp. 413 (2004).

177. Khashan, S. and Al-Nimr, M. A.: Validation of the local thermal equilibrium assumption in forced convection of non-Newtonian fluids through porous channels, Transport in Porous Media, Vol. 61(3), pp. 291-305 (2005).

178. Haddad, O. M., Al-Nimr, M. A. and Abuzaid, M. M.: The effect of frequency of fluctuating driving force on basic slip micro-flows, Acta Mechanica , Vol. 179, pp. 249-259 (2005).

179. Khadrawi, A. F., Othman, Ali and Al-Nimr, M. A.: Transient free convection fluid flow in a vertical micro-channel as described by the hyperbolic heat conduction model, International Journal Thermophysics, Vol. 26(3), pp. 905-918 (2005).

180. Haddad, O. M., Abuzaid, M. M. and Al-Nimr, M. A.: Developing free convection gas flow in a vertical open-ended micro-channel filled with porous media, Numerical Heat Transfer, Part A, Vol. 48 (2005).

181. Khadrawi, A. F., Othman, Ali and Al-Nimr, M. A.: Non-Darcy forced convection for laminar incompressible boundary layer flow (The family of wedge and cone flows in porous media), International Journal of Heat and Technology, Vol. 23(2), pp. 115-122 (2005).

182. Haddad, O. M., Al-Nimr, M. A. and Taamneh, Y.: Hydrodynamic and thermal behavior of gas flow in micro channels filled with porous media, J. Porous Media, Vol. 9(5), pp. 403-414 (2006).

183. Khadrawi, A. F., Tahat, M. S. and Al-Nimr, M. A.: Validation of the thermal equilibrium assumption in periodic natural convection in porous domains, Int. J. Thermophysics, Vol. 26(5), pp. 1633-1649 (2005).

184. Al-Nimr, M. A., Khadrawi, A. F. and Othman, A.: Basic viscoelastic fluid flow problems using Jeffreys model, Chemical Engineering Science, Vol. 60(24), pp. 7131-7136 (2005).

185. Hader, M., Al-Nimr, M. A. and Hammoudeh, V.: Transient thermal response of a homogenous composite thin layer exposed to a fluctuating heating source under the effect of the dual-phase-lag heat conduction model, Int. J. Thermophysics, Vol. 27(2), pp. 665-680 (2006).

186. Haddad, O. M., Al-Nimr, M. A. and Abuzaid, M. M.: Effect of periodically oscillating driving force on basic microflows in porous media, Journal Porous Media, Vol. 9(7), pp. 695-707 (2006).

187. Saleh, A. and Al-Nimr, M. A., A modified air jet refrigeration system,

Int. J. Heat & Technology, Vol. 24(2), pp. 23-28 (2006).

188. Al-Huniti, N. and Al-Nimr, M. A.: Steady-state thermoelastic behavior of a two-anisotropic layer thick plate strip, Int. J. of Computational Methods in Engineering Science and Mechanics, Vol. 7(5), pp. 381-388 (2006).

189. Haddad, O.M., Al-Nimr, M. A. and Al-Omary, J. Sh.: Forced convection of gaseous slip-flow in porous micro-channels under local thermal non-equilibrium conditions, Transport in Porous Media, Vol. 67(3), pp. 453-471 (2007).

190. Damseh, R., Al-Odat, M. Q. and Al-Nimr, M. A.: Entropy generation during fluid flow in a channel under the effect of transverse magnetic field, Heat Mass Transfer, Vol. 44(8), pp. 897-904 (2008).

191. 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(1), pp. 165-167 (2007).

192. Darabseh, T., Naji, M. and Al-Nimr, M. A., Transient thermal stresses in an orthotropic cylinder under the hyperbolic heat conduction model, Heat Transfer Engineering, Vol. 29(7), pp. 632-642 (2008).

193. Haddad, O.M. , Al-Nimr, M. A. and Sari, M.: Forced convection gaseous slip flow in circular porous micro-channels, Transport in Porous Media, Vol. 70(2), pp. 167-179 (2007).

194. Naji, M., Al-Nimr, M. A. and Darabseh, T.: Thermal stress investigation in unidirectional composites under the hyperbolic energy model, International Journal of Solids and Structures, Vol. 44(16), pp. 5111-5121 (2007).

195. Khadrawi, A., Al-Jarrah, J. and Al-Nimr, M. A.: Carbon mass transfer into composite slabs under the effect of non-Fickian diffusion model, Chemical Engineering Communications, Vol. 195(1), pp. 1-10 (2008).

196. Khadrawi, A. and Al-Nimr, M. A.: Unsteady natural convection fluid flow in a vertical microchannel under the effect of the Dual-Phase-Lag heat conduction model, Int. J. Thermophysics, Vol. 28(4), pp. 1387-1400 (2007).

197. Saleh, A. and Al-Nimr, M. A.: Evaporative system for water and beverage refrigeration in hot countries, Journal of Power and Energy, Vol. 221(8), pp. 1099-1105 (2007).

198. Ramadan, K. and Al-Nimr, M. A.: Analysis of the thermal behavior of a multilayer slab with imperfect contact using the dual phase lag heat conduction model, ASME J. Heat Transfer, Vol. 130(7), pp. (2008).

199. Saleh, A. and Al-Nimr, M. A.: Variational formulation of hyperbolic heat conduction problems applying Laplace Transform technique, International Communications in Heat and Mass Transfer, Vol. 35(2), pp. 204-214 (2008).

200. Khadrawi, A. and Al-Nimr, M. A.: A simplistic way for cooling an intermittent operating internal combustion engine, Proceedings of Technology Systems Operation (Hloch, S., et al. Ed.), Presov 2007, pp. 19-22. Presented in the 8th International Scientific Conference, Technology Systems Operation' 07, Presov, Solvak Republic (2007).

201. Ramadan, K. and Al-Nimr, M. A.: Thermal wave reflection and transmission in a multilayer slab with imperfect contact using the dual-phase-lag model, Heat Transfer Engineering, Vol. 30(8), pp. 677-687 (2009).

202. Al-Nimr, M. A., Asfar, K. R. and Abbadi, T.: Design of a smart thermal insulation system, Heat Transfer Engineering, Vol. 30(9), pp. 762-769 (2009).

203. Jaradat, M. A., Al-Nimr, M. A. and Alhamad, M. N.: Smoke modified environment for crop frost protection: A fuzzy logic approach, Computers and Electronics in Agriculture, Vol. 64(2), pp. 104-110 (2008).

204. Al-Jarrah, J., Khadrawi, A. and Al-Nimr, M. A.: Film condensation on a vertical micro-channel, Int. Communication in Heat and Mass Transfer, Vol. 35(9), pp. 1172-1176 (2008).

205. Haddad, O. M., Al-Nimr, M. A. and Shatnawi, G., Free convection gas flow in porous micro-channels, Accepted for presentation in the 6th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'08), Rhodes Island, Greece, August 20-22, (2008).

206. Khadrawi, A. and Al-Nimr, M. A.: A simplistic way for cooling an intermittent operating internal combustion engine, International Journal Heat and Technology, Vol. 26(2), pp. 163-166 (2008).

207. Saleh, A. and Al-Nimr, M. A.: The Effectiveness of Multi Stage Dehumidification-humidification for Improving Cooling Ability of Evaporative Air Conditioning, J. Power and Energy, Part A, Vol. 223(1), pp. 11-20 (2009).

208. Jaradat, M. A. and Al-Nimr, M. A.: Fuzzy Logic Controller Deployed For Indoor Air Quality Control in Natural Ventilated Environments, Accepted for presentation in the 2008 International conference on Signals, Circuits & Systems (SCS'08), (2008).

209. Kiwan, S. and Al-Nimr, M. A.: Flow and Heat Transfer over a Stretched Micro-Surface, ASME J. Heat Transfer 131(6), pp. 1-8 (2009).

210. Hamdan, M. O. and Al-Nimr, M. A.: Thermal augmentation in internal cooling passage by converting impingement jet to induced swirl flow, Accepted for presentation in the 6th International Conference on Computational Heat and Mass Transfer, May 18–21, 2009, Guangzhou, CHINA.

211. Jaradat, M. A. and Al-Nimr, M. A.: Fuzzy logic controller deployed for indoor air quality control in natural ventilated environments, Journal of Electrical Engineering, Vol. 60(1), pp. 12-17 (2009).

212. Ramadan, K. and Al-Nimr, M. A.: Analysis of transient heat transfer in multilayer thin films with nonlinear thermal boundary resistance, International Journal of Thermal Sciences, Vol. 48(9), pp. 1718-1727 (2009).

213. Al-Nimr, M. A., Maqapleh, A. M., Khadrawi, A. F. and Ammourah S. A.: Fully developed thermal behaviors for parallel flow microchannel heat exchanger, International Communications in Heat and Mass Transfer Vol. 36, pp. 385-390 (2009).

214. Bataineh, K. and Al-Nimr, M. A.: 2-D Navier–Stokes Simulations of Microscale Viscous Pump with Slip Flow, ASME Journal of Fluids Engineering, Vol. 131(5), pp. 0511051 – 0511057 (May 2009).

215. Khadrawi, A., Al-Nimr, M. A. and Hader, M.: Thermal Equilibrium Assumption of Fluid Flow in Porous Channel as Described by a Hyperbolic Heat-Conduction Model, Journal of Porous Media, Vol. 13 (6), pp. 529-535 (2009).

216. Hamdan, Mohammad O. and Al-Nimr, M. A.: Critical coating radius of spherical particle in thermal radiation environment, AIAA Journal of Thermophysics and Heat Transfer, Volume 23 (3), pp. 634-638 (2009).

217. Alkam, M. K. and Al-Nimr, M. A.: Comments on the article titled 'The Starting Flow in Ducts Filled with a Darcy-Brinkman Medium,' Transport in Porous Media, 75, 55-62, 2008 (2009).

218. Ramadan, K., Tyfour, W. R. and Al-Nimr, M. A.: On the Analysis of Short-Pulse Laser Heating of Metals Using the Dual Phase Lag Heat Conduction Model, ASME J. Heat Transfer, Vol. 131(11), pp. 1-7 (2009).

219. Kiwan, S. and Al-Nimr, M. A.: Investigation into the Similarity Solution for Boundary Layer Flows in Microsystems, ASME J. Heat Transfer 132(4), pp. 1-9 (2010).

220. Al-Nimr, M. A., Hammoudeh, Vladimir A. and Hamdan, M. A.: Effect of velocity-slip boundary conditions on Jeffery-Hamel flow solutions, ASME J. Applied Mechanics, Volume 77(4), 041010, July (2010).

221. Khadrawi, A. F., Abo-Qudais and Al-Nimr, M. A.: A simplistic way for cooling asphalt mixture using a modified sand mixture and low thermal absorptivity materials, International Conference on Applications and Design in Mechanical Engineering (ICADME), Batu Ferringhi, Penang, MALAYSIA 11 – 13 October (2009).

222. Hamdan, Mohammad O. and Al-Nimr, M. A.: The use of porous fins for heat transfer augmentation in parallel-plate channels, Transport in Porous Media 84(2), pp. 409-420 (2010).

223. Al-Nimr, M. A.: Book Review: Non-Equilibrium Thermodynamics of Heterogeneous Systems, Energy-The International Journal , Vol. 35, pp. 2348-2349 (2010).

224. Sabbah, A. I., Dib, N. I. and A. Al-Nimr, M. A.: Evaluation of SAR and temperature elevation in a multi-layered human head model exposed to RF radiation using the FDTD method. Mosharaka International Conference on Communications, Propagation and Electronics (MIC-CPE2010), 5-7 March 2010, Amman–Jordan.

225. Hamdan, M. A., Al-Nimr, M. A. and Hammoudeh, Vladimir: Effect of second order velocity-slip/temperature-jump on basic gaseous fluctuating micro-flows, ASME J. Fluids Engineering, 132(7), pp. 0745031-0745036 (2010).

226. Bataineh, K., Al-Nimr, M. A. and Kiwan, S.: Double-disk rotating viscous micro-pump with slip flow, Micro System Technologies, 16(10), pp. 1811-1819 (2010).

227. Bataineh, K., Al-Nimr, M. A. and Batayneh, W.: Micro scale falling cylinder viscometer with slip boundary, ASME J. Fluids Engineering 132(8) Art. No. 084502 (2010).

228. Sabbah A. I., Dib N. I., and Al-Nimr M. A.: SAR and temperature elevation in a multi-layered human head model due to an obliquely incident plane wave, Progress in Electromagnetic Research M (PIER M), 13, 95-108 (2010).

229. Sabbah, A. I., Dib, N. I. and A. Al-Nimr, M. A.: Evaluation of SAR and temperature elevation in a multi-layered human head model exposed to RF radiation using the FDTD method. IET Microwaves, Antennas & Propagation, Vol. 5(9), pp. 1073-1080 (2011).

230. Al-Nimr, M. A. and Al-Shohani, W. A.: Design of a wind water heater, Presented in ICMAE 2010 International Conference on Mechanical and Aerospace Engineering, Kuala Lumpur, Malaysia, pp. 292-296, November (2010).

231. Al-Nimr, M. A.: Book Review: Renewable Energy-The Facts. Authors: Dieter Seifried and Walter Witzel. Energy-The International Journal , Vol. 36, pp. 1376-1377 (2011).

232. Saleh, A., Qudeiri, J. A. and Al-Nimr, M. A.: Performance investigation of a salt gradient solar pond coupled with desalination facility near the Dead Sea, Energy-The International Journal, 36, 922-931 (2011).

233. Al-Nimr, M. A.: Book Review: Principles of Sustainable Energy, Authors: Frank Kreith and Jan Kreider, Energy-The International Journal , Vol. 36, pp. 3613-3614 (2011).

234. Maqapleh, A. M., Khadrawi, A. F., Al-Nimr, M. A., Ammourah S. A. and Benim, A. C.: Heat transfer characteristics of parallel and counter flow micro-channel heat exchangers with varying wall resistance, Progress in Computational Fluid Dynamics, 11(5), pp. 318-328 (2011).

235. Al-Nimr, M. A., Khuwaileh, B. and Alata, M.: A novel integrated direct absorption self-storage solar collector, Accepted for presentation in 6th Dubrovnik Conference on Sustainable Development of Energy Water and Environment Systems, September 25-29, 2011, Dubrovnik, Croatia.

236. Ramadan, K. and Al-Nimr, M. A.: On impulsively started convection: The case of stagnation point flow, International Journal of Thermal Sciences, 50, pp. 2355-2364 (2011).

237. Al-Nimr, M. A., Khuwaileh, B. and Alata, M.: A novel integrated direct absorption self-storage solar collector, International Journal of Green Energy, Vol. 8(6), pp. 618-630 (2011).

238. Ammourah S. A., Benim, A. C., Maqapleh, A. M., Khadrawi, A. F. and Al-Nimr: Flow characteristics of micro-orifice, JP J. Heat Mass Transfer, Vol. 7(1), pp. 17-34 (2013).

239. Maqapleh, A. M., Ammourah S. A., Khadrawi, A. F., Al-Nimr, M. A., and Benim, A. C.: Hydrodynamics behavior of a fluid flow in micro-venturi, Canadian Journal of Physics, Vol. 90(1), pp. 83-89 (2012).

240. Feras H. D., Al-Nimr, M. A. and Al-Huniti, N.: Transient Response of a Clamped Slab under Pressure and Thermal Loads, Journal Thermal Stresses, Vol. 35, pp. 470-484 (2012).

241. Al-Nimr, M. A. and Al-Shohani, W. A.: Design of a wind water heater, Applied Mechanics and Materials, Vol. 110 – 116, 4970-4976 (2011).

242. Alata, M., Al-Nimr, M. A. and Khuwaileh, B.: A novel hybrid solving approach based on combining similarity solutions with Laplace Transformation technique to solve differential engineering problems, Proceedings of the 3rd CUTSE International Conference, Miri, Sarawak, Malaysia, 8-9 Nov 2011.

243. Bataineh, K., Khadrawi, A.F. and Al-Nimr, M.A.: Effect of slip factor in hydrodynamic behaviors of basic micro-flows problems, 4th International Conference on Manufacturing Engineering, Quality and Production Systems, MEQAPS'11; Barcelona; 15-17 September 2011; Code 87489, pp. 131-138.

244. Al-Nimr, M. A., Hammoudeh, V. A., Hamdan, M. A. and Es-Saheb, M.A.: Fanno Flow in Microchannels, Research Journal of Applied Sciences, Engineering and Technology, Vol. 4(24), pp. 5578-5585 (2012).

245. Darwish, F. H. and Al-Nimr, M.A.: Thermal Stress under the Effect of Nonconventional Heat Conduction Models, Encyclopedia of Thermal Stresses (ETS), Accepted to be part of the Encyclopedia. Springer (2013).

246. Al-Nimr, M. A. and Al-Shohani, W. A. M.: Performance of Photovoltaic Module for Different Sites in Iraq, Arabian Journal for Science and Engineering (AJSE), 38(2) 277-283 (2013).

247. Hader, M., Al-Nimr, M. A., Alata, Mohanad and Al-Jezawi, M.: Basic Viscoelastic Fluid Flow Problems under Harmonic Fluctuating Driving Force, Arabian Journal for Science and Engineering (AJSE) 39(2) 1187-1194 (2014).

248. Alata, M. Al-Nimr, M. A. and Al-Jarrah, R.: Fuzzy Control of the Air Conditioning System at Different Operating Pressures, World Academy of Science, Engineering and Technology 71, pp. 1278-1284 (2012).

249. Mahian, O., Kianifar, A., Kleinstreuer, C., Al-Nimr, M., Pop, I., Sahin, A. and Wongwises, S.: A review of entropy generation in nanofluid flow, International Journal of Heat and Mass Transfer 65, pp. 514–532 (2013).

250. Naji, M., Al-Nimr, M., Alsyed, E. and Essaheb M.: Thermal stresses in an anisotropic thin plate subjected to moving line heat source, Research Journal of Applied Sciences, Engineering and Technology, 7(8), 1516-1528 (2014).

251. Khuwaileh, B., Al-Nimr M. and Alata M.: A novel hybrid solving approach based on combining similarity solutions with laplace transformation technique to solve different engineering problems, Research Journal of Applied Sciences, Engineering and Technology, 7(8), 1507-1510 (2014).

252. Batayneh, W., Al-Nimr, M. and Nazzal, M.: Fuzzy-GA inference technique to control three-input jet ejector system, Accepted for publication in International Journal of Modeling Identification and Control (2013).

253. Al-Nimr, M. and Al-Dafaie, A.: Using nanofluids in enhancing the performance of a novel two-layer solar pond, Energy-the International Journal, 68, 318-326 (2014).

254. Khuwaileh, B., Al-Nimr M.: An ultra compact high efficiency thermo-photovoltaic system for electricity generation, Accepted for publication in International Journal of Renewable Energy Research (IJRER) 4(2), 261-266 (2014).

255. Naji, M., Al-Nimr, M., Alsyed, E. and Essaheb M.: Thermal stresses in an anisotropic thin plate subjected to moving plane heat source, Research Journal of Applied Sciences, Engineering and Technology, 7(16), 3395-3404 (2014).

256. Darwish, F., Al-Nimr, M. and Hatamleh, M. I.: Thermoelastic analysis for a slab made of a thermal diode-like material, Structural Engineering and Mechanics, 53(4), 645-659 (2015).

257. Al-Nimr, M. and Dahdolan, M. I.: Modeling of a novel concentrated solar still enhanced with a porous evaporator and an internal condenser, Solar Energy, 114, 8-16 (2015).

258. Alshyyab, A., Darwish, F. A. Al-Nimr, M. and Alshaer, B.: Analytical study of conjugated heat transfer of a micro fluid flow between two parallel plates, Accepted for publication (2015).

259. Al-Nimr, M., Tashtoush, B. and Jaradat, A.: Modeling and simulation of thermoelectric device working as a heat pump and an electric generator under Mediterranean climate, Energy 90, 1239-1250 (2015).

260. Al- Hadeethi, F., Al-Nimr, M.A. and Al-Safadi, M.: Using the multiple regression analysiswith respect to Anova and 3D mapping to model the actual performance of (PEM) fuel cell at various operating conditions, Energy 90, 475-482 (2015).

261. Al-Nimr, M. and Dahdolan, M. I.: Modeling of a Novel Concentrated PV/T Distillation System Enhanced with a Porous Evaporator and an Internal Condenser, Solar Energy, 120, 593-602 (2015).

262. Alshyyab, A., Darwish, F. A. and Al-Nimr, M.: Thermoelastic Response of the Solid Boundaries of a Semi-Infinite Rectangular Micro-Channel Flow, Applied Thermal Engineering, 93, 588-589 (2016).

263. Hussien, A. A., Abdullah, M. Z. and Al-Nimr, M.A., Single-Phase Heat Transfer Enhancement in Micro/Minichannels using Nanofluids: Theory and Applications, Applied Energy, 164, 733-755 (2016).

264. Al-Nimr, M., Kiwan, S. and Telfah, S.: Hybrid Solar-Wind Distillation System, Accepted for publication in Desalination Journal (2016).

265. Al-Nimr, M. and Al-Ammari, W.: A Novel Hybrid PV-Distillation System, Solar Energy Journal, 135, 874-883 (2016).

266. Hussien, A., Abdullah, M., Al-Nimr, M. A., Yusop, N., Nuntadusit, C. and Elnaggar, M.: The Heat Transfer Performance of Gold/Water Nanofluid Flows in Minitube using Thermal Lattice Boltzmann Method, Pertanika J. Sci. & Technol. 24 (2): 423 - 438 (2016).

267. Al-Dafaie, A., Dahdolan, M. I. and Al-Nimr, M.: Utilizing the Heat Rejected from a Solar Dish Stirling Engine in Potable Water Production, Solar Energy Journal, 136, 317-326 (2016).

268. Krajacˇic´, G., Duic´, N., Vujanovic´, M., Kılkıs, S., Rosen , Al-Nimr, M.: Sustainable development of energy, water and environment systems for future energy technologies and concepts, Energy Conversion and Management, 125, 1-14 (2016).

269. Al-Nimr, M., Al-Ammari, W. and Dahdolan, M. I.: Utilizing the evaporative cooling to enhance the performance of a solar TEG system and to produce distilled water, Solar Energy 146, 209-220 (2017).

270. Malkawi, S., Al-Nimr, M. and Azizi D.: A Multi-Criteria Optimization Analysis for Jordan's Energy Mix, Energy 127, 680-696 (2017).

271. Al-Nimr, M., Bukhari, M. and Mansour, M.: A combined CPV/T and ORC solar power generation system integrated with geothermal cooling and electrolyser/fuel cell storage unit, Energy 133, 513-524 (2017).

272. Al-Nimr, M., Tashtoush, B., Khasawneh, M. and Al-Keyyam, I.: A Hybrid Concentrated Solar Thermal Collector / Thermo-Electric Generation System, Energy 134, 1001-1012 (2017).

273. Al-Nimr, M., Al-Darawsheh, I. and Khalayleh, L.: A Novel Hybrid Cavity Solar Thermal Collector, Renewable Energy, 115, 299-307 (2018).

274. Al-Nimr , M., Kiwan , S. and Sharadga, H.: Simulation of a novel hybrid solar photovoltaic / wind system to maintain the cell surface temperature and to generate electricity, International Journal of Energy Researc, 42(3), 985-998 (2018).

275. Hussien, A., Abdullah, M. Z., Yusop, N. M., Al-Nimr, M., Mehrali, M. and Atieh, M.: Experiment on forced convective heat transfer enhancement using MWCNTs/GNPs hybrid nanofluid and mini-tube , International J Heat Mass Transfer, 115, 1121-1131 (2017).

276. Tashtoush, B. , Al-Nimr, M. and Khasawneh, M.: Investigation of the use of nano-refrigerants to enhance the performance of an ejector refrigeration system, Applied Energy, 206, 1446-1463 (2017).
277. Roskilly, A. and Al-Nimr, M. A., Sustainable Thermal Energy Management, Accepted for publication in Energy Conversion and Management 2017.
278. Krajačića, G., Vujanovića, M., Duića, N., Kılkış, S., Rosenc, M. and Al-Nimr, M. A. : Integrated approach for sustainable development of energy, water and environment systems, Energy Conversion and Management. In press 2017.
279. Al-Nimr , M., Kiwan , S. and Sharadga, H.: A Hybrid TEGs/Wind System Using Concentrated Solar Energy and Chimney Effect, International Journal of Energy Research- In Press (2018).
280. Hussien, A., Abdullah, M. Z., Yusop, N. M., Al-Nimr, M., Mehrali, M. and Atieh, M.: Study on Convective Heat Transfer and Pressure Drop of MWCNTs/Water Nanofluid in Mini-Tube, Journal of Thermal Analysis and Calorimetry, 135(1), pp. 123-132 (2019).
281. Al-Nimr, M. and Qananba, K.: A solar hybrid thermoelectric generator and distillation system, International Journal of Green Energy 15(8) pp. 473-488 (2018).
282. Al-Nimr, M. and Qananba, K.: A solar hybrid system for power generation and water distillation, Solar Energy 171, pp. 92-105 (2018).
283. Al-Nimr , M., Kiwan , S. and Abdel Salam, Q.: Solar chimney power-water distillation plant (SCPWDP), Desalination 445, pp. 105-114 (2018).
284. Sharadga, H., Dawahdeh, A. and Al-Nimr, M.: A hybrid PV/T and Kalina cycle for Power Generation , International Journal of Energy Researc, , (2018).
285. Al-Nimr and Alajlouni, A.: Internal Combustion Engine waste heat recovery by a thermoelectric generator inserted at Combustion Chamber Walls, International Journal of Energy Researc, 42(3), 985-998 (2018).
286. Alshyyab, A., Darwish, F., Al-Nimr , M. and Alshaer, B.: ANALYTICAL STUDY OF CONJUGATED HEAT TRANSFER OF A MICROCHANNEL FLUID FLOW BETWEEN TWO PARALLEL PLATES, Journal of Engineering Thermophysics, (2019).
287. Kılkış, S., Krajačića, G., Duić, N., Rosenc, M. and Al-Nimr, M. A.: Advancements in sustainable development of energy, water and environment systems, Energy Conversion and Management 176, pp. 164-183 (2018).
288. Hamdan, M.A., Al-Assaf, A.H., Al-Nimr, M.A.: The Effect of Slip Velocity and Temperature Jump on the Hydrodynamic and Thermal Behaviors of MHD Forced Convection Flows in Horizontal Microchannels, Iranian Journal of Science and Technology – Transactions of Mechanical Engineering 40(2), pp. 95-103 (2016).
289. Hamdan, M.A., Al-Assaf, A.H., Al-Nimr, M.A.: Effect of Transverse Steady Magnetic Field on MHD Flow Under Free Convection Conditions in Vertical Microchannels, Jourdan Journal of Mechanical and Industrial Engineering, 12(2), pp. 131-139 (2018).
290. Al-Nimr, M., Al-Ammari, W. and Alkhalidi, A.: A novel hybrid Photovoltaics/ thermoelectric cooler distillation system, International Journal of Energy Research (2018).
291. Tashtoush, B. , Al-Nimr, M. and Khasawneh, M.: A comprehensive review of ejector design, performance, and applications, Applied Energy, 240, 138-172 (2019).
292. Saleh, A. and Al-Nimr,M.: A novel vacuum wastewater treatment plant integrated with a solar absorption system, International Journal of Energy Research, 44(3), pp. 1685-1697 (2020).
293. Kılkış, S., Krajačića, G., Duić, N., Montorsi, L., Wang, Q, Rosenc, M. and Al-Nimr, M. A.: Research frontiers in sustainable development of energy, water and environment systems in a

time of climate crisis, Energy Conversion and Management 199, Article number 111938 pp. 1-21 (2019).

294. Al-Nimr, M., Al-Ammari, W.: A novel PVT/PTC/ORC solar power system with PV totally immersed in transparent organic fluid, International Journal Energy Research, 43(9), pp. 4766-4782 (2019).
295. Hussien, A., Yusop, N. M., Al-Nimr, M., Abdullah, M. Z., Janvekar, A.A. and Elnaggar, M.H.: Numerical Study of Heat Transfer Enhancement Using Al_2O_3–Graphene/Water Hybrid Nanofluid Flow in Mini Tubes, Iranian Journal of Science and Technology, Transaction A: Science, 43(4), pp. 1989-2000 (2019).
296. Al-shyyab, A.S., Darwish, F.H., Al-Nimr, M.A., Alshaer, B.J. : Title Analytical Study of Conjugated Heat Transfer of a Microchannel Fluid Flow between Two Parallel Plates, Journal of Engineering Thermophysics, 29(1), pp. 114-135 (2020).
297. Kiwan, S., Al-Nimr, M., Salim, I. : A hybrid solar chimney/photovoltaic thermal system for direct electric power production and water distillation , Sustainable Energy Technologies and Assessments Journal of Engineering Thermophysics, 38,100680 (2020).
298. Kiwan, S., Al-Nimr, M., Radaideh, M.I.: Investigation of a new hybrid fuel cell–ThermoElectric generator–absorption chiller system for combined power and cooling, International Journal of Refrigeration , 113, pp. 103-114 (2020).
299. Al-Nimr, M.A., Mugdadi, B.: A hybrid absorption/thermo-electric cooling system driven by a concentrated photovoltaic/thermal unit, Sustainable Energy Technologies and Assessments, 40, 100769 (2020).
300. Al-Nimr, M.A., Tashtoush, B., Hasan, A.: A novel hybrid solar ejector cooling system with thermoelectric generators, Energy, 198,117318 (2020).
301. Al-Nimr, M.A., Al-Ammari, W.A.: A novel hybrid and interactive solar system consists of Stirling engine/vacuum evaporator/thermoelectric cooler for electricity generation and water distillation , Renewable Energy, 153, pp. 1053-1066 (2020).
302. M. A. Al-Nimr, S. Kiwan and A. Kiwan: A novel approach to improve the performance of solar-driven Stirling engine using solar-driven ejector cooling cycle , Int J Enrgy Research (2020).
303. Moh'd Al-Nimr, Abdallah Milhemb, Basel Bishawi, Khaleel Al Khasawneh: "Integrating Transparent and Conventional Solar Cells TSC/SC" Sustianability 12(18) 7483 (2020).
304. Kılkış, S., Krajačića, G., Duić, N., Rosenc, M. and Al-Nimr, M. A.: Advances in integration of energy, water and environment systems towards climate neutrality for sustainable development, 225 Article number 113410 (2020).
305. Al-Huniti, N. and Al-Nimr, M. A.: A Novel Piezoelectric System for Thermal Energy Harvesting from Temperature Fluctuations, Accepted in International Journal of Applied Mechanics (2020).
306. Al-Nimr M., Al-Waked R., Al-Zu'bi O.: Enhancing the performance of heat pumps by immersing the external unit in underground water storage tanks, Journal Building Engineerng, 40, 102732 (2021).
307. Ibrahim Al Keyyam, Moh'd Al-Nimr, Saud Khashan and Ashraf Keewan: A new solar atmospheric water harvesting integrated system using CPV/T – Stirling engine – Absorption cooling cycle and vapor compression refrigeration cycle, Int J Enrgy Research 10.1002/er.6888 (2021).

308. Al-Widyan, M., Al-Nimr, M., Al-Oweiti, Q., A hybrid TEG/Thermal radiator system for space heating and electric power generation, Journal Building Engineering, 41, 102364 (2021).

309. S¸iir Kılkıs, Goran Krajaˇci´c , Neven Dui´c, Marc A. Rosen, Moh'd Ahmad Al-Nimr: Accelerating mitigation of climate change with sustainable development of energy, water and environment systems, 245 Article number 114606 (2021).
310. Hasan, A., Mugdadi, B., Al-Nimr, M.A., Tashtoush, B.: Direct and indirect utilization of thermal energy for cooling generation: A comparative analysis, Energy, 2022, 238, 122046
311. Al-Nimr, M.A., Mugdadi, B.: A novel hybrid cooling system combining vortex tube with absorption cooler, Int J Enrgy Research, 10.1002/er.7756 (2022).
312. Al-Nimr, M. A., Dawahdeh, A. and Ali, H.: Power generation by integrating a thermally regenerative electrochemical cycle (TREC) with a solar pond and underground heat exchanger, Renewable Energy, 189 (2022) 663-675.
313. Dawahdeh, A.I. and Moh'd A, A.N., 2022. Power generation by integrating a thermally regenerative electrochemical cycle (TREC) with biofuel stove. (Accepted for publication in Energy).
314. Dawahdeh, A.I. and Moh'd A, A.N., 2022. Augmented wind turbine performance using a novel annular circumferential duct design. (Accepted for publication in Int J Enrgy Research).
315. S¸iir Kılkıs, Goran Krajaˇci´c , Neven Dui´c, Marc A. Rosen, Moh'd Ahmad Al-Nimr: Effective mitigation of climate change with sustainable development of energy, water and environment systems, Energy Conversion and Management, 2022, 269, 116146 .
316. Mugdadi, B. and Al-Nimr, M. A.: A Novel flexible multi-effect absorption system for the production of controllable quantities of power, heating, cooling and desalination (2022).
317. Al-Nimr, M., Khashan, S. and Al-Oqla, H.: NOVEL TECHNIQUES TO ENHANCE THE PERFORMANCE OF STIRLING ENGINES INTEGRATED WITH SOLAR SYSTEMS, Renewable Energy (2022).
318. S¸iir Kılkıs, Goran Krajaˇci´c , Neven Dui´c, Marc A. Rosen, Moh'd Ahmad Al-Nimr: Effective mitigation of climate change with sustainable development of energy, water and environment systems, Energy Conversion and Management 269, 116146
319. Al-Nimr, M., Dawahdeh, A., Al-Omari, J.: Dual power generation modes for thermally regenerative electrochemical cycle integrated with concentrated thermal photovoltaic and phase change material storage, Journal of Energy Storage Volume 58, February 2023, 106373

Dawahdeh, A and Al-Nimr, M.: A novel energy harvesting and battery thermal management in hybrid vehicles using a thermally regenerative electrochemical device, Energy 270, (2023).

Patents:

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

References: Provided upon request.