In the Name of Allah

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Mohammad Sadegh Valipour

Education

PhD, Mechanical Engineering
Sharif University of Technology, Tehran, Iran, 2007.
M.Sc, Mechanical Engineering,
Sharif University of Technology, Tehran, Iran, 2000.
B.Sc, Mechanical Engineering,
Sistan & Baluchestan University, Zahedan, Iran, 1998.

Work Experience & Academic Positions

Oct. 2020-Present	**Professor, Faculty of Mechanical Engineering , Semnan University, Semnan, Iran.**
Sep. 2018-Present.	**Dean of The Faculty of Mechanical Engineering, Semnan University, Semnan, Iran.**
Apr. 2014-Present	**Director of Energy and Porous Media Research Lab, Faculty of Mechanical Engineering , Semnan University, Semnan, Iran.**
Nov. 2010-Sep. 2018	**Director of Semnan University Technology Incubator** **Semnan University, Semnan, Iran.**
Apr. 2014- Oct. 2020	**Associate Professor, Faculty of Mechanical Engineering , Semnan University, Semnan, Iran.**
Jul. 2006-Apr. 2014	**Assistant Professor** **Faculty of Mechanical Engineering , Semnan University, Semnan, Iran.**
Apr.2005-Jan. 2006	**Special foreign researcher, Materials Reaction Engineering Lab., Department of Materials, Physics and Energy Engineering, Nagoya University, Japan**

Nov. 2003-Apr. 2005	**DRI-Technology researcher** **Iran International Engineering Company(IRITEC)**
2000- 2004	**Energy Optimization Researcher, Sharif Energy Research Institute(SERI), Sharif University of Technology, Tehran, Iran**

Interests & Activities

Solar Energy (Thermal, Solar Chimney, Solar Collector, Water Desalination)
Heat and Mass Transfer and Fluid Dynamics in Porous Media
Energy optimization, Phase Change Materials(PCMs)
Vertical and horizontal wind tunnels
Energy Optimization in Ironmaking & Steelmaking Plants
Two Phase Flow (Gas-Solid)
Modeling of Heterogeneous gas-solid reactions
Modeling of Vortex Tube Refrigerator
Direct Reduced Iron

Taught Courses

Under Graduate Courses

- **Fluid Mechanics I & II**
- **Fluid Mechanics Lab.**
- **Engineering Mathematics**
- **Power Plants Technology**
- **Fuel and Combustion**

Graduate Courses

- **Convection Heat transfer**
- **Process Engineering**
- **Advanced Engineering Mathematics II**
- **Energy System Analysis**
- **Transport phenomena in porous media**

PhD Thesis Supervised

Dehghan, Maziar, "Analytical investigation heat and Fluid flow in a porous microchannel slip condition ", 2014, (Graduated)

Zare Ghadi, Aryan, "Simulation of cooling zone processes of Midrex direct reduction shaft furnace "2016(Graduated)

Rahmani, Hamid, "Investigation of the Operation Modification of Helical Turbine for Energy Generation from the Tidal currents in the Khoran Strait "2017(Graduated)

AkbarZadeh, Sanaz, "Experimental study on the effect of helically corrugated absorber tubes in a parabolic trough collector" 2020, (Graduated)

Sakhaee Ali, "Experimental study on the effect of using phase change materials on the thermal performance of a flat plate solar collector with a plain and helically corrugated riser tubes", 2020,(Graduated).

Khanzadeh Borjak, Sadigheh, "The experimental investigation of the droplet impact on the curved nanostructure surface"2020,(Graduated)

Tabe Reza, "Simulation of air-particle flow and drug absortion in the human upper respiratory tract", 2021(Graduated)

Nazemian Mohsen, "Experimental investigation of airflow around *Wingsuit*", 2023(Graduated)

Fallah Seyed Hosein, " Numerical and Experimental investigation of the heat and fluid flow field inside the solar chimney with sloped collector", in

progress.

Pahamli Yunus, "Numerical and experimental investigation of using phase change material in a porous media to improve the performance of refrigerators", in progress.

Mahmoudi Ali, ""

Radfar Navid, ""

Honor and Awards

- **He is ranked among the top 1% of the most cited and impactful world scientists in the 2020, 2021, 2022,2023 citations impact database created by ISC(Islamic World Science Citation Center).**
- **He is ranked among the top 2% of the most cited and impactful world scientists in the 2022 citations impact database created by Stanford University's John Ioannidis, in PLoS Biology.**
- **BSc. thesis advisor to Ardeshir Akbari Variani, Winning the best Bachelor thesis award in Mechanical Engineering, Selected by the Iranian Society of Mechanical Engineers (ISME), May 2023.**
- **Membership of ISES (International Solar Energy Society)**
- **Young Researcher Fellowship from MIT, 2005.**
- **Awarded Scholarship from Nagoya University of Japan as Special Foreign Student, 2005.**
- **Awarded Scholarship from Iranian Ministry of Science, Research and Technology**
- **Nominated as Top Student of Engineering School in B.Sc., 1998**
- **Membership of ISIJ (Iron and Steel Institute of Japan)**
- **Membership of ISME(Iranian Society for Mechanical Engineers)**

عضو کانون کارآفرینان استان سمنان

پژوهشگر برتر در حوزه ي فناوري و تحقيقات كاربردي سال 89 ، دانشگاه سمنان

پژوهشگر برجسته دانشكده مهندسي مكانيک ، سال 91، دانشگاه سمنان

عضو شورای دانشگاه سمنان

عضو و دبیر شورای فناوری مرکز رشد واحدهای فناور دانشگاه سمنان

دبیر کارگروه بهینه سازی مصرف انرژی استان سمنان

رییس کمیته بهینه سازی انرژی دانشگاه سمنان

عضو حقیقی کمیسیون تخصصی انرژی شورای عالی عتف

- **General Secretary of second Iranian Conference on Heat and Mass Transfer(ICHMT2014)**
- **Scientific Secretary of 26th Annual International Conference of Iranian Society of Mechanical Engineers(ISME2018)**
- **Executive Secretary of the 20th National Fluid Dynamics Conference(FDC2023)**

Editor for

- **Journal of Heat and Mass Transfer Research**

Reviewer for

- International Journal of Heat and Mass Transfer
- Engineering Applications of Computational Fluid Mechanics

- Advanced Powder Technology
- International Journal of Refrigeration
- Journal of Modeling in Engineering(in Persian)
- Journal of Energy conversion and Management
- Renewable & Sustainable Energy Reviews
- Applied Thermal Engineering
- Applied Energy
-

Research and Industry Contracts

- Research Industry Contract-2012-2014, National Space and Advanced Transportation Headquarter: *Design and construction of Lab scale vertical wind tunnel*
- Research Industry Contract-2012-2014, Iran International Engineering Company(IRITEC): *Design and construction of Lab scale jet ejector*
- Research Industry Contract-2012-2014, Semnan Water and Waste Water Company(Sem ABFA): *Modeling of contaminant transportation in underground water*

Patents

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Publications

International Journals

1. P Esfanjani, A Mahmoudi, S Rashidi, **MS Valipour**, "*Experimental investigation of a novel design of cavity receiver for a parabolic dish collector humidification-dehumidification desalination system*" Energy Conversion and Management, 2024, 299, 117845(https://doi.org/10.1016/j.enconman.2023.117845)[Q1].
2. M Nazemian Alaei, **MS Valipour**, "Aerodynamic and RSM Analysis of Wingsuit Stability" Journal of Applied Fluid Mechanics, 2023, 16(12), 2344-2363 (https://doi.org/10.47176/JAFM.16.12.2032) [Q3].
3. A Mahmoudi, M Bostani, S Rashidi, **MS Valipour**, "*Challenges and opportunities of desalination with renewable energy resources in Middle East countries*" Renewable and Sustainable Energy Reviews, 2023, 184, 113543 (https://doi.org/10.1016/j.rser.2023.113543) [Q1].
4. Z Esmaeili, **MS Valipour**, S Rashidi, S Akbarzadeh, "*Performance analysis of a parabolic trough collector using partial metal foam inside an absorber tube: an experimental study*" Environmental Science and Pollution Research, 2023, 30, 89794–89804(https://doi.org/10.1007/s11356-023-28732-1) [Q1].
5. S Sandooghdar, S Akbarzadeh, **MS Valipour**, A Arabkoohsar, "*Performance improvement of air-based solar photovoltaic/thermal collectors using wavy channels*" Renewable Energy,2023, 211, 831-845(https://doi.org/10.1016/j.renene.2023.05.043)[Q1].
6. AZ Ghadi, N Radfar, **MS Valipour**, HY Sohn, "*A Review on the Modeling of Direct Reduction of Iron Oxides in Gas-Based Shaft Furnaces*", Steel Research International, 91(1), 2023.(https://doi.org/10.1002/srin.202200742) [Q1].
7. MN Alaei, **MS Valipour**, "*Experimental study of optimized beginner-level wingsuit*", Archive of Applied Mechanics 93, 2253–2272 (2023) https://doi.org/10.1007/s00419-023-02381-9 [Q2].
8. Z Esmaeili, S Akbarzadeh, S Rashidi, **MS Valipour**, "*Effects of hybrid nanofluids and turbulator on efficiency improvement of parabolic trough solar collectors*", Engineering Analysis with Boundary Elements,148, 114-125, 2023. https://doi.org/10.1016/j.enganabound.2022.12.024 [Q1]
9. MN Alaei, **MS Valipour**, "*A study of the relationships between pressure and deformation of surface on wingsuit performance*", Amirkabir Journal of Mechanical Engineering, 54(11) (2023) 541-544, DOI: 10.22060/mej.2023.21561.7467 [ISC]

10. MN Alaei, MS Valipour, " *An experimental and numerical investigation of vortices on the effect of vortices on the performance of a wingsuit"* Modares Mechanical Engineering 2023; 23 (2) :93-105, URL: http://mme.modares.ac.ir/article-15-62371-en.html .
11. F Kassaei, A Ghodsi, AM Jadidi, **MS Valipour**, "*Experimental studies on solar chimneys for natural ventilation in domestic applications: a comprehensive review*", Environmental Science and Pollution Research, 29, 73842–73855 (2022). https://doi.org/10.1007/s11356-022-22956-3, [Q2].
12. P Esfanjani, A Mahmoudi, **MS Valipour**, S Rashidi, "*An experimental study on a cylindrical-conical cavity receiver for the parabolic dish collector*", Environmental Science and Pollution Research, 30, 6517–6529, 2023. https://doi.org/10.1007/s11356-022-22569-w, [Q2].
13. A Fattahi, M Dehghan, **MS Valipour**, " *Converging Flow Passages, Nanofluids and Magnetic Field: Effects on the Thermal Response of Microchannel Heat Sinks* "- Journal of Heat and Mass Transfer Research, 2022, 9, 77-84, https://dx.doi.org/10.22075/jhmtr.2022.22016.1320, [Q2].
14. MM Esmaili, SH Fallah, M Izanlu, **MS Valipour** , *Investigation on the Performance of a solar chimney-flare gas hybrid system*, Sustainable Energy Technologies and Assessments, , 2022, 102279. https://doi.org/10.1016/j.seta.2022.102279, [Q1].
15. P Esfanjani, S Jahangiri, A Heidarian, **MS Valipour**, *A review on solar-powered cooling systems coupled with parabolic dish collector and linear Fresnel reflector* , Environmental Science and Pollution Research, 2022,https://doi.org/10.1007/s11356-022-19993-3, [Q2].
16. M Aboujafari, **MS Valipour**, A Hajialimohammadi, D Honnery, " Porous Medium Applications in Internal Combustion Engines: A Review." Transport in Porous Media (2022), https://doi.org/10.1007/s11242-022-01750-2, [Q1].
17. HZ Lorestani, **MS Valipour**, "*Numerical investigation of a sloped solar chimney power plant: a three-dimensional study*"- Chemical Engineering Communications, 2023, 210, 756-772. https://doi.org/10.1080/00986445.2021.2018307, [Q2].
18. R Tabe, R Rafee, **MS Valipour**, G Ahmadi "*Transition and Laminar flows in a realistic geometry of human upper airway*"- Journal of Mechanics in Medicine and Biology, 2021. https://doi.org/10.1142/S0219519421500706, [Q4].
19. H Mirzaee, R Rafee, S Rashidi, **MS Valipour**, "*Two-phase modeling of low-Reynolds turbulent heat convection of Al2O3-water nanofluid in a 2-D helically corrugated channel* "- Chemical Engineering Communications, 2023, 210, 634-654. https://doi.org/10.1080/00986445.2021.2009467, [Q2].
20. M Babapour, S Akbarzadeh, **MS Valipour**, "*An experimental investigation on the simultaneous effects of helically corrugated receiver and nanofluids in a parabolic trough collector* "- Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 261-275. https://doi.org/10.1016/j.jtice.2021.07.031, [Q1].
21. SH Fallah, **MS Valipour**, "*Numerical investigation of a small scale sloped solar chimney power plant*", Renewable Energy,2021, 183,1-11, https://doi.org/10.1016/j.renene.2021.10.081, [Q1].
22. SA Sakhaei, **MS Valipour**, "*Thermal behavior of a flat plate solar collector with simultaneous use of helically heat collecting tubes and phase change materials* ", Sustainable Energy Technologies and Assessments, , 2021, 46, 101279. [Q1].
23. A Heidarian, R Rafee, **MS Valipour** , " *Hydrodynamic analysis of the nanofluids flow in a microchannel with hydrophobic and superhydrophobic surfaces*", Journal of the Taiwan Institute of Chemical Engineers,2021, https://doi.org/10.1016/j.jtice.2021.04.002, [Q1].
24. Y Pahamli, **MS Valipour, "***Application of phase change materials in refrigerator and freezer appliances: A comprehensive review* "- Journal of Heat and Mass Transfer Research, 2021, https://doi.org/10.22075/jhmtr.2021.21860.1316, [Q2].
25. S Akbarzadeh, and **MS Valipour**. " *The thermo-hydraulic performance of a parabolic trough collector with helically corrugated tube*." Sustainable Energy Technologies and Assessments:2021, https://doi.org/10.1016/j.seta.2021.101013, [Q1].
26. S Najjaran, S Rashidi, **MS Valipour** " *An entropy production analysis for electroosmotic flow and convective heat transfer: a numerical investigation*" J Therm

Anal Calorim (2021). https://doi.org/10.1007/s10973-021-10691-9, [Q2].

27. S Najjaran, S Rashidi, **MS Valipour** " *Heat transfer intensification in microchannel by induced-charge electrokinetic phenomenon: a numerical study*" J Therm Anal Calorim (2020). https://doi.org/10.1007/s10973-020-10271-3, [Q2].
28. S Khanzadeh Borjak, R Rafee, **MS Valipour**. " *Experimental Investigation of Water Droplet Impact on the Electrospun Superhydrophobic Cylindrical Glass: Contact Time, Maximum Spreading Factor, and Splash Threshold*. " Langmuir : the ACS Journal of Surfaces and Colloids, 2020, 36(45):13498-13508. [Q1].
29. A Mousazade, R Rafee, **MS Valipour** , " *Thermal Performance of Cold Panels with Phase Change Materials in a Refrigerated Truck*" International Journal of Refrigeration, https://doi.org/10.1016/j.ijrefrig.2020.09.003, [Q1].
30. A Heidarian, R Rafee, **MS Valipour** , " *Effects of wall hydrophobicity on the thermohydraulic performance of the microchannels with nanofluids*" International Communications in Heat and Mass Transfer,2020 ,117, 104758. [Q1].
31. SA Sakhaei, **MS Valipour**, "*Thermal performance analysis of a flat plate solar collector by utilizing helically corrugated risers: An experimental study*", Solar Energy, 2020, 207, 235-246. [Q1].
32. S Khanzadeh Borjak, R Rafee, **MS Valipour**. " *Fabrication of Poly Vinyl Acetate (PVAc) Nanofibers Using DMAC Solvent: Effect of Molecular Weight, Optimization by Taguchi DoE*" International Polymer Processing, 2020, 35, 257-267. [Q1].
33. A Fattahi, M Dehghan, **MS Valipour** "Heat transfer in a three-dimensional nanofluid-cooled microcooler under the influence of magnetic field", Journal of Mechanical Engineering, 2020, 50(3), 165-173(ISC) https://tumechj.tabrizu.ac.ir/article_10420.html .
34. S Najjaran, S Rashidi, **MS Valipour** " *A new design of induced-charge electrokinetic micromixer with corrugated walls and conductive plate installation*" International Communications in Heat and Mass Transfer,2020 ,114, 104564. [Q1].
35. S Akbarzadeh, and **MS Valipour**. " *Energy and exergy analysis of a parabolic trough collector using helically corrugated absorber tube*" Renewable Energy, 2020, 155, 735-747. [Q1].
36. S Akbarzadeh, and **MS Valipour**. "*Experimental study on the heat transfer enhancement in helically corrugated tubes under the non-uniform heat flux*." Journal of Thermal Analysis and Calorimetry: 1-13, 2020, https://doi.org/10.1007/s10973-020-09385-5, [Q2].
37. AZ Ghadi, **MS Valipour**, SM Vahedi, HY Sohn "*A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets*", Steel Research International, 91(1), 2020, https://doi.org/10.1002/srin.201900270, [Q1].
38. K Amani, M Ebrahimpour, S Akbarzadeh, **MS Valipour**, "*The utilization of conical strip inserts in a parabolic trough collector* ", Journal of Thermal Analysis and Calorimetry, 1-7, 2020, https://doi.org/10.1007/s10973-019-09233-1, [Q2].
39. SA Sakhaei, **MS Valipour**, "*Investigation on the effect of different coated absorber plates on the thermal efficiency of the flat-plate solar collector* ", Journal of Thermal Analysis and Calorimetry,1-14,2019, https://doi.org/10.1007/s10973-019-09148-x , [Q2].
40. SH Fallah, **MS Valipour**, "*Evaluation of solar chimney power plant performance: The effect of artificial roughness of collector*", Solar Energy,188, 175-184, [Q1].
41. SA Sakhaei, **MS Valipour**, "*Performance enhancement analysis of The flat plate collectors: A comprehensive review* ", Renewable and Sustainable Energy Reviews, 2019, 102, 186-204, [Q1]..
42. R Tayebi, S Akbarzadeh, **MS Valipour**, "*Numerical investigation of efficiency enhancement in a direct absorption parabolic trough collector occupied by a porous medium and saturated by a nanofluid* ", Environmental Progress & Sustainable Energy, 38, 727-740, [Q2].
43. H Rahmani, M Biglari, **MS Valipour**, K Lari, "*Numerical investigation of the effects of immersion on the efficiency of a tidal helical turbine* ", Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, https://doi.org/10.1177/0954406218810301, [Q2].
44. SM Vahedi, **MS Valipour**, F de Monte, "An advection-diffusion multi-layer porous

model for stent drug delivery in coronary arteries", Journal of Computational & Applied Research in Mechanical Engineering (JCARME), DOI: 10.22061/jcarme.2018.2741.1280, [Q3].

45. M Dehghan, M Daneshipour, **MS Valipour**, "Nanofluids and converging flow passages: A synergetic conjugate-heat-transfer enhancement of micro heat sinks", International Communications in Heat and Mass Transfer, 2018, 97, 72-77. [Q1].
46. S. Akbarzadeh , **M.S. Valipour**, "*Heat transfer enhancement in parabolic trough collectors: A comprehensive review* ", Renewable and Sustainable Energy Reviews, Vol.. 93, 2018, 198-218, [Q1].
47. .S Rashidi, H Bafekr, **MS Valipour**, JA Esfahani, "*A review on the application, simulation, and experiment of the electrokinetic mixers*", Chemical Engineering and Processing-Process Intensification, Vol.126, 2018, 108-122, [Q1].
48. S Rashidi, N Rahbar, **MS Valipour**, JA Esfahani, "*Enhancement of solar still by reticular porous media: Experimental investigation with exergy and economic analysis*", Applied Thermal Engineering, Vol. 130, 2018, 1341-1348, [Q1].
49. SM Vahedi, AZ Ghadi, **MS Valipour**, "*Application of Response Surface Methodology in the Optimization of Magneto-Hydrodynamic Flow Around and Through a Porous Circular Cylinder* ", Journal of Mechanics, https://doi.org/10.1017/jmech.2018.1, [Q1].
50. H Rahmani, M Biglari, **MS Valipour**, K Lari , "*Assessment of the numerical and experimental performance of screw tidal turbines* ", Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, https://doi.org/10.1177/0957650917753778, [Q2].
51. S Rashidi, N Rahbar, **MS Valipour**, JA Esfahani, "*Enhancement of solar still by reticular porous media: Experimental investigation with exergy and economic analysis*", Applied Thermal Engineering, Vol. 130, 2018, 1341-1348, [Q1].
52. S.Bakhshipour, **M.S.Valipour,** Y.Pahamli, "*Parametric analysis of domestic refrigerators using PCM heat exchanger*", International Journal of Refrigeration, 83,2017,1-13, [Q1].
53. A Rezvani, M Biglari, **MS Valipour**, "Numerical Solution of Natural Convective Heat Transfer of Al2O3/Water Nanofluids in a Square Cavity with Modified Circular Corner", Journal of Solid and Fluid Mechanics, DOI: 10.22044/jsfm.2017.928, Accepted, (ISC).
54. AZ Ghadi, **MS Valipour**, M Biglari, "*CFD simulation of two-phase gas-particle flow in the Midrex shaft furnace: The effect of twin gas injection system on the performance of the reactor* ", International Journal of Hydrogen Energy, Vol.42(1), 2017, 103–118, [Q1].
55. M Taherian, S Saedodin, **MS Valipour**, "*Numerical simulation of subsonic jet ejector* " JOURNAL OF MODELING IN ENGINEERING 2016, Vol.14(45), Pp.63-78(in Persian).(ISC).
56. A Rezvani, MS Valipour, M Biglari, "*Numerical Study of Entropy Generation for Natural Convection in Cylindrical Cavities* " Journal of Heat and Mass Transfer Research, Vol.3(2), 2016, Pp. 89-99. (ISC).
57. S. M. Vahedi, **M. S. Valipour**, F. de Monte , " Simulation of heparin distribution in an injured coronary artery", Modares Mechanical Engineering, Vol.16(11), 2017, 255-265.(in Persian). (ISC).
58. S. M. Vahedi, **M. S. Valipour**, F. de Monte , "*Effect of two species modeling of polymeric coating and drug metabolism via Drug-Eluting Stents*", Modares Mechanical Engineering, Vol. 17, No. 3, pp. 305-316, 2017,(in Persian). (ISC)
59. N Tirandaz, M Dehghan, **MS Valipour**, "*Heat and fluid flow through a helical annulus enhanced by a porous material: A perturbation study* " Applied Thermal Engineering, 2016, doi/10.1016/j.applthermaleng.2016.09.113, [Q1].
60. M Dehghan, Y Rahmani, S Saedodin, **MS Valipour**, D.D. Ganji, "*Investigation of the forced convection heat transfer in the presence of radiation in metal foams using HPM* " Journal of Modeling in Engineering, Vol.14(46), 2016, Pp. 1-9(in Persian) (ISC)
61. **M. S. Valipour** and H. Fallah, " *Mathematical Modeling of Solar Chimney Power Plants in Semnan City*", Energy Engineering Management, 6(1), 70-83(in Persian) (ISC)

62. S. Rashidi, J.A. Esfahani, **M.S. Valipour**, M. Bovand, I. Pop, "*Magnetohydrodynamic effects on flow structures and heat transfer over two cylinders wrapped with a porous layer in side*", International Journal of Numerical Methods for Heat & Fluid Flow, 26(5), 2016, pp. 1416-1432, [Q1].
63. M. Dehghan, **M.S. Valipour**, S. Saedodin, " *Microchannels enhanced by porous materials: Heat transfer enhancement or pressure drop increment?*", Energy Conversion and Management, 110(2016),22-23, [Q1].
64. **M.S. Valipour**, M Biglari, E Assareh - Journal of Heat and Mass Transfer Research , Vol.3(1), 2016, Pp. 67-76. (ISC)
65. AZ Ghadi, **MS Valipour**, M Biglari, "*Mathematical modelling of wustite pellet reduction: grain model in comparison with USCM* " Ironmaking & Steelmaking, Vol. 43(6), 2016, Pp.418-425, [Q2].
66. M. Dehghan, **M.S. Valipour**, A. Keshmirib, S. Saedodin , N. Shokri, "*On the thermally developing forced convection through a porous material under the local thermal non-equilibrium condition: An analytical study*", International Journal of Heat and Mass Transfer, 92(2016),815–823, [Q1].
67. M. Dehghan, **M.S. Valipour**, S. Saedodin, "*Conjugate Heat Transfer Inside Microchannels Filled with Porous Media: An Exact Solution* , Journal of Thermophysics and Heat Transfer, [doi: 10.2514/1.T4767], [Q1].
68. AA Heravi, F Talebi, **MS Valipour** , "*Investigation of pore-scale random porous media using lattice boltzmann method* ", Journal of Heat and Mass Transfer Research, Vol.2(1), 2015, Pp. 1-12. (ISC)
69. M. Dehghan, **M.S. Valipour**, S. Saedodin, "*Analytical study of heat flux splitting in micro-channels filled with porous mediaonjugate Heat Transfer* , Transport in Porous Media, 109(2015), 571-578, [Q1].
70. N Rahbar, M Shateri, M Taherian, **MS Valipour** , "*2D Numerical Simulation of a Micro Scale Ranque-Hilsch Vortex Tube* " Journal of Heat and Mass Transfer Research , Vol.2(1),2015, Pp.39-48. (ISC)
71. M. Bovand, S.Rashidi, M.Dehghan, J.A.Esfahani, **M.S.Valipour** "*Control of wake and vortex shedding behind a porous bluff-body by exerting an external magnetic field*", J. of Magnetism and Magnetic Materials, [doi:10.1016/j.jmmm.2015.03.012], [Q1].
72. M. Dehghan, Y. Mahmoudi, **M.S. Valipour**, S. Saedodin, "*Combined Conduction–Convection–Radiation Heat Transfer of Slip Flow Inside a Micro-Channel Filled with a Porous Material*", Transport in Porous Media, [DOI 10.1007/s11242-015-0483-z], [Q1].
73. S. Rashidi, A. Nouri-Borujerdi, **M.S. Valipour,** R. Ellahi, I. Pop, "*Stress-jump and Continuity Interface Conditions for a Cylinder Embedded in a Porous Medium*", Transport in Porous Media, [DOI 10.1007/s11242-014-0431-3], [Q1].
74. M. Dehghan, M. Daneshipour, **M.S. Valipour**, R. Rafee, S. Saedodin "*Enhancing heat transfer in microchannel heat sinks using converging flow passages*", Energy Conversion and Management, 92 (2015) 244–250, [Q1].
75. M. Dehghan, **M.S. Valipour** , S. Saedodin "*Temperature-dependent conductivity in forced convection of heatexchangers filled with porous media: A perturbation solution*", Energy Conversion and Management, 91 (2015) 259–266, [Q1].
76. M.M. Zolfagharian, M. Rajabi-Zargarabadi, A.S. Mujumdar, **M.S. Valipour** and M. Asadollahi, "*Optimization of Turbine Blade Cooling Using Combined Cooling Techniques*", Engineering Applications of Computational Fluid Mechanics, 8(2014),462-475, [Q1].
77. M. Dehghan, Y. Rahmani, D. D. Ganji, S. Saedodin, **M.S. Valipour**, S. Rashidi, "*Convectioneradiation heat transfer in solar heat exchangers filled with a porous medium: Homotopy perturbation method versus numerical analysis* ", Renewable Energy 74 (2015) 448-455, [Q1].
78. M. Dehghan, M. Mirzaee, **MS Valipour**, S. Saedodin, "*Investigation of non-Newtonian fluid flow over a linearly moving sheet at a transient state* " Journal of Modeling in Engineering, Vol.12(39), 2015, Pp.113-122(in Persian). (ISC)
79. A Zare Ghadi, A Haghighi Asl, **MS Valipour** , "*Numerical modelling of double-diffusive natural convection within an arc shaped enclosure filled with a porous medium*", Journal of Heat and Mass Transfer Research, Vol.1(2), 2014, Pp. 83-91.

(ISC)

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