Mahmood Norouzi

Personal Information

Name: Mahmood
Surname: Norouzi
Academic Degree: Ph.D. in Mechanical Engineering
Position: Associate Professor in Mechanical Engineering
Place of Birth: Tehran, Iran
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Primary Email: mnorouzi@shahroodut.ac.ir
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Research Interests

- Rheology and non-Newtonian Fluid Mechanics
- Fluid Dynamics (Specially instability of fluid flows) and Heat Transfer
- Numerical Methods and Computational Fluid Dynamics
- Composite Materials
- Ventilation and Air Condition
- Machines and Mechanisms

Educations

Shahrood University of Technology (2005–2009)
Expected Degree: Ph.D. in Fluid Mechanics
Thesis: Investigation of viscoelastic flow and heat transfer in stationary and rotating curved rectangular ducts
GPA: **19.50** / 20.00 (Equivalent to **3.90** / 4.00)

National University of Singapore (NUS), (2008–2009)
Visiting research for a half of year

Shahrood University of Technology (2002–2005)
Expected Degree: Master of Science in Fluid Mechanics
Thesis: A numerical modeling for internal cooling of gas turbine blades
GPA: **18.88** / 20.00 (Equivalent to **3.78** / 4.00)

Sharif University of Technology (1998–2002)
Expected Degree: Bachelor of Science in Solid Mechanics
Final Project: Optimization of pressure angle and Hertzian stress in disk cams with different types of reciprocating followers
GPA: **16.01** / 20.00 (Equivalent to **3.20** / 4.00)

Membership

- Member of National Elites Foundation of Iran
- Member of Rheology Society
- Member of Iranian Association of Mechanical Engineering

Taught Courses

- Non–Newtonian Fluid Mechanics
- Computational Fluid Dynamics
- Advanced Fluid Mechanics
- Advanced Numerical Methods
- Advances Engineering Mathematics
- Fluid Mechanics
- Numerical Methods
- Engineering Mathematics
- Dynamics
- Machine Elements Design

Professional Experiences

- Associate Professor in Mechanical Engineering Department, Shahrood University of Technology, Shahrood, Iran, Feb 2010–Present.
- Head of University-Industry Relation Office of Shahrood University of Technology, Shahrood, Iran, June 2014–Present.
- Director-in-Charge of Journal of Solid and Fluid Mechanics, 2013–Present.
- Management Editor of Journal of Solid and Fluid Mechanics, 2011–2013.
- Member of Railway Committee in Iranian National Standard Institute, 2008–2009.
- R&D Expert in RAJA Inc., 2006–2009.
- Manager of Machinery Design Group in Saba Battery Co., 2003–2006.
- Expert in Design and R&D Groups of Havasaz Inc., 2001–2003.

Technical Skills

- Programming the CFD codes
- Measuring the rheological properties of complex fluids, semi solid materials and rubbers
- Piping and Design of HVAC equipment
- Design of industrial ventilation equipment
- Design of test systems for HVAC equipment
- Design of composite vessels

Awards and Honors:

- Research award and grant of young assistant professor from National Elites Foundation of Iran (2012)
- Superior research award of Semnan state (2017)
- Superior teaching awards of Shahrood University of Technology for ten years (Since 2011-2021)
- Superior research awards of Shahrood University of Technology for ten years (Since 2012-2021)
- The first rank in the entrance exam of Ph.D. degree (2005)
- Superior research award for graduate students (2009)

Reviewer for:

- Journal of Heat Transfer–Transactions of The ASME
- International Journal of Heat and Mass Transfer (Elsevier)
- International Journal of Thermal Sciences (Elsevier)
- Applied Thermal Engineering (Elsevier)
- Journal of The Franklin Institute (Elsevier)
- Ain Shams Engineering Journal (Elsevier)
- Scientia Iranica (Elsevier)
- Nonlinear Dynamics (Springer)
- Korea-Australia Rheology Journal (Springer)
- British Journal of Applied Science & Technology
- Journal of Flow Chemistry
- The Modares Journal of Mechanics Engineering
- Journal of Applied and Computational Science in Mechanics (Publisher: Ferdowsi University of Mashhad)
- Mechanical Engineering Journal of Tabriz University
- Journal of Energy Engineering Management
- Journal of Solid and Fluid Mechanics
- Journal of Mining and Environment
- Journal of Modeling in Engineering
- 8th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, HEFAT 2011.
- 23rd Annual International Mechanical Engineering Conference (ISME-2015), Amirkabir University of Technology, Tehran, Iran, 2015.
- 26rd Annual International Mechanical Engineering Conference (ISME-2018), Semnan University, Semnan, Iran, 2018.

Publications

Books

1. **M. Norouzi**, M.H. Kayhani, *Internal flows of non-Newtonian fluids*, In: V.M. Petrova (Ed.), Advances in Engineering Research, Vol. 3, Nova Publishers, New York, USA, 285–332, 2012.
2. **M. Norouzi**, M. Karimi Demneh, *Simulation of Machines and Mechanisms with MATLAB (SimMechanics)*, Dibagaran, Tehran, 2005.

Translated Book to Persian

1. J. Kiusalaas, *Numerical Methods in Engineering with MATLAB*, 2nd Edition, Cambridge University Press, 2009, Translators: **M. Norouzi**, M. Karimi-Demneh, M. Mahmoodi, 2014.

Journal Papers

1. M.M. Sharghi, **M. Norouzi**, P. Akbarzadeh, A. Abbaspor, An investigation on nonlinear viscoelastic lubrication using FENE-P constitutive equation, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 44, 196, 2022, DOI: 10.1007/s40430-022-03497-9, ISSN: 1678-5878, IF: 2.220, (SCIE).
2. A Emamian, **M Norouzi**, M Davoodi, "Drops with circular stagnation lines: combined effects of viscoelastic and inertial forces on drop shape", Journal of Non-Newtonian Fluid Mechanics, Journal of non-Newtonian Fluid Mechanics, In Press (Available online 6 April 2022), DOI: 10.1016/j.jnnfm.2022.104795, ISSN: 0377-0257, IF: 2.670 (SCIE).
3. P. Akbarzadeh, **M. Norouzi**, R. Ghasemi, S.Z. Daghigh, "Experimental study on the entry of solid spheres into Newtonian and non-Newtonian fluids", Physics of Fluids, vol.34, no.3, pp.033111, 2022, DOI: 10.1063/5.0081002, ISSN: 1070-6631, IF: 3.521, (SCIE).
4. A. Yaghoobi, A. Jalali, **M. Norouzi**, M. Ghatee, "Aspect Ratio Dependency of Magneto-Rheological Elastomers in Dynamic Tension-Compression Loading", IEEE Transactions on Magnetics, 2022, DOI: 10.1109/TMAG.2022.3152031, ISSN: 0018-9464, IF: 1.700, (SCIE).
5. A. Minaeian, M. Nili-AhmadAbadi, **M. Norouzi**, K.C. Kim, "Effects of viscoelasticity on the onset of vortex shedding and forces applied on a cylinder in unsteady flow regime", Physics of Fluids, vol.34, no.1, pp.013106, 2022, DOI: 10.1063/5.0080956, ISSN: 1070-6631, IF: 3.521, (SCIE).
6. B.E. Manesh, M.M. Shahmardan, **M. Norouzi**, H. Rahmani, "Unsteady anisotropic heat conduction in heterogeneous composite conical shells with temperature-dependent thermal conductivities: an analytical study", Journal of Thermal Analysis

and Calorimetry, vol.147, pp.1773–1792, 2022 DOI: 10.1007/s10973-020-10434-2, ISSN: 1388-6150, IF: 4.626, (SCIE).

7. M. Mahmoodi, M. Nili-Ahmadabadi, A. Minaeian, M.R. Tavakoli, **M. Norouzi**, K.C. Kim, "Secondary flow structures in developing viscoelastic fluid flow through curved ducts with square cross section", Meccanica, vol. 56, pp.2979–2999, 2021, DOI: 10.1007/s11012-021-01438-9, ISSN: 0025-6455, IF: 2.258, (SCIE).
8. A.B. Bahambari, M.H. Kayhani, **M. Norouzi**, "On the effect of geometry of w-wave trenches on film cooling performance of gas turbine blades", Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, vol.235, no.7, pp.1595-1618, 2021, DOI: 10.1177/09576509211008277, ISSN: 0957-6509, IF: 1.882, (SCIE).
9. M.R. Rezaie, **M. Norouzi**, M.H. Kayhani, S.M. Taghavi, "Numerical analysis of the drop impact onto a liquid film of non-linear viscoelastic fluids", Meccanica, vol.56, pp.2021–2038, 2021, DOI: 10.1007/s11012-021-01363-x, ISSN: 0025-6455, IF: 2.258, (SCIE).
10. A. Abbaspur, **M. Norouzi**, P. Akbarzadeh, S.A. Vaziri, "Analysis of nonlinear viscoelastic lubrication using Giesekus constitutive equation", Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 235(6): 1124-1138, 2021, DOI: 10.1177/1350650120944280, ISSN: 1350-6501, IF: 1.674, (SCIE).
11. M.H. Sedaghat, A.A.H. Bagheri, M.M. Shahmardan, **M. Norouzi**, B.C. Khoo, P. Jayathilake, "A hybrid immersed boundary-lattice Boltzmann method for simulation of viscoelastic fluid flows interaction with complex boundaries", Communications in Computational Physics, 29(5): 1411-1445, 2021, DOI: 10.4208/cicp.OA-2019-0158, ISSN: 1815-2406, IF: 3.246, (SCIE).
12. **M. Norouzi**, A. Emamian, M. Davoodi, "A new mathematical technique for analysis of internal viscoplastic flows through rectangular ducts", Journal of Engineering Mathematics, 127, 27, 2021, DOI: 10.1007/s10665-021-10090-x, ISSN: 0022-0833, IF: 1.509, (SCIE).
13. **M. Norouzi**, S. Dorrani, H. Shokri, O. Anwar Bég, "Linear stability analysis and CFD simulation of thermal viscous fingering instability in anisotropic porous media", Journal of Engineering Mechanics, 147(4): 04021006, 2021, DOI: 10.1061/(ASCE)EM.1943-7889.0001906, ISSN: 0733-9399, IF: 2.620, (SCIE).
14. M. A. Hasani, **M. Norouzi**, M.M. Larimi, R, Rooki, "Computational study on drilling mud flow through wellbore annulus by Giesekus viscoelastic model", Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 235(1): 66-79, 2021, DOI: 10.1177/0954408920943809, ISSN: 0954-4089, IF: 1.620, (SCIE).
15. **M. Norouzi**, M.K. Sheykhian, M.M. Shahmardan, A. Shahbani-Zahiri, "Experimental investigation of spreading and receding behaviors of Newtonian and viscoelastic droplet impacts on inclined dry surfaces", Meccanica, 56: 125–145, 2021, DOI: 10.1007/s11012-020-01285-0, ISSN: 0025-6455, IF: 2.258, (SCIE).
16. A. Jalali, H. Dianati, **M. Norouzi**, H. Vatandoost, M. Ghatee, "A novel bi-directional shear mode magneto-rheological elastomer vibration isolator, Journal of Intelligent

Material Systems and Structures", 31(17): 2002-2019, 2020, DOI: 10.1177/1045389X20942314, ISSN: 1045-389X, IF: 2.569, (SCIE).

17. A. Minaeian, M. Nili-Ahmadabadi, **M. Norouzi**, K.C. Kim, "Effects of elasticity on unsteady forced convective heat transfer of viscoelastic fluid around a cylinder in the presence of viscous dissipation", Physics of Fluids, 32(8): 083102, 2020, DOI: 10.1063/5.0009948, ISSN: 1070-6631, IF: 3.521, (SCIE).
18. H. Shokri, M. H. Kayhani, **M. Norouzi**, "Nonlinear Simulation of viscoelastic fingering instability in miscible displacement through homogeneous and heterogeneous porous media", 145(12), 2019, DOI: 10.1061/(ASCE)EM.1943-7889.0001687, ISSN: 0733-9399, IF: 2.620, (SCIE).
19. M.G.E. Moghadam, M.M. Shahmardan, **M. Norouzi**, "Magneto-rheological damper modeling by using dissipative particle dynamics method", Computational Particle Mechanics, 7(3): 567-592, 2020, DOI: 10.1007/s40571-019-00280-x, ISSN: 2196-4386, IF: 1.95, (SCIE).
20. A. Minaeian, M. Nili-Ahmadabadi, **M. Norouzi**, "Forced convective heat transfer of nonlinear viscoelastic flows over a circular cylinder at low Reynolds inertia regime", Communications in Nonlinear Science and Numerical Simulation, 83: 105134, 2020, DOI: 10.1016/j.cnsns.2019.105134, ISSN: 1007-5704, IF: 4.260, (SCIE).
21. A.H. Dorosti, M. Ghatee, **M. Norouzi**, "Preparation and characterization of water-based magnetorheological fluid using wormlike surfactant micelles, Journal of Magnetism and Magnetic Materials", 498: 166193, 2020, DOI: 10.1016/j.jmmm.2019.166193, ISSN: 0304-8853, IF: 2.993, (SCIE).
22. M.G.E. Moghadam, M.M. Shahmardan, **M. Norouzi**, "Investigation on surface roughness of piston in mini-magnetorheological damper using dissipative particle dynamics modeling", Journal of Intelligent Material Systems and Structures, 31(3): 408-424, 2020, DOI: 10.1177/1045389X19888797, ISSN: 1045-389X, IF: 2.569, (SCIE).
23. **M. Norouzi**, M.R. Rezaie, "Forced Convection Heat Transfer of a Giesekus Fluid in Circular Micro-Channels Subjected to a Constant Wall Temperature", Journal of Thermal Science and Engineering Applications, 12(1): 011020, 2020, DOI: 10.1115/1.4044346, ISSN: 1948-5093, IF: 1.27, (SCIE).
24. S.M.H. Razavi, M.M. Shahmardan, M. Nazari, **M. Norouzi**, "Experimental study of the effects of surfactant material and hydrocarbon agent on foam stability with the approach of enhanced oil recovery", 585: 124047, 2020, Colloids and Surfaces A: Physicochemical and Engineering Aspects, DOI: 10.1016/j.colsurfa.2019.124047, ISSN: 0927-7757, IF: 4.539, (SCIE).
25. S. Bahrami, **M. Norouzi**, "Hemodynamic impacts of hematocrit level by two-way coupled FSI in the left coronary bifurcation", Clinical Hemorheology and Microcirculation, 76(1): 9-26, 2020, DOI: 10.3233/CH-200854, ISSN: 1386-0291, IF: 2.375, (SCIE).
26. A. Nazemi, M. Baou, A. Jabari-Moghadam, **M. Norouzi**, "A numerical study on viscoelastic boundary layer on flat plate", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 42, 11, 2020, DOI: 10.1007/s40430-019-2087-y, ISSN: 1678-5878, IF: 2.220, (SCIE).

27. B. Norouzi, A. Ahmadi**, M. Norouzi**, M. Lashkarbolouk, "Numerical modeling of the fluid hammer phenomenon of viscoelastic flow in pipes", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 41(12):1-14, 2019, DOI: 10.1007/s40430-019-2046-7, ISSN: 1678-5878, IF: 2.220, (SCIE).
28. H. Shokri, M.H. Kayhani, **M. Norouzi**, "On the miscible thermo-viscous fingering instability of non-Newtonian fluids in heterogeneous porous media", Rheologica Acta, 58(11): 755-769, 2019, DOI: 10.1007/s00397-019-01176-6, ISSN: 0035-4511, IF: 2.627, (SCIE).
29. B.E. Manesh, M. M. Shahmardan, H. Rahmani, **M. Norouzi**, "Heterogeneous anisotropic conductive heat transfer in composite conical shells: An exact analysis", International Journal of Heat and Mass Transfer, 144: 118614, 2019, DOI: 10.1016/j.ijheatmasstransfer.2019.118614, ISSN: 0017-9310, IF: 5.584, (SCIE).
30. H. Vatandoost, S.M.S. Alehashem, **M. Norouzi**, H. Taghavifar, Y.Q. Ni, "A supervised artificial neural network-assisted modeling of magnetorheological elastomers in tension–compression mode", IEEE Transactions on Magnetics, 55(12): 2502008, 2019, DOI: 10.1109/TMAG.2019.2942804, ISSN: 0018-9464, IF: 1.700, (SCIE).
31. S.Z. Daghighi, **M. Norouzi**, "Analysis of forced convection of Phan–Thien–Tanner fluid in slits and tubes of constant wall temperature with viscous dissipation", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 41(11): 1-23, 2019, DOI: 10.1007/s40430-019-1992-4, ISSN: 1678-5878, IF: 2.220, (SCIE).
32. H. Rahmani, **M. Norouzi**, Alireza K. Birjandi, Amir K. Birjandi, "An exact solution for transient anisotropic heat conduction in composite cylindrical shells", Journal of Heat Transfer, 141(10): 101301, 2019, DOI: 10.1115/1.4044157, ISSN: 0022-1481, IF: 2.021, (SCIE).
33. **M. Norouzi**, H. Rahmani, A.K. Birjandi, "A new exact analysis for anisotropic conductive heat transfer in truncated composite spherical shells", Journal of Mechanics, 35(5): 677-691, 2019, DOI: 10.1017/jmech.2018.54, ISSN: 1727-7191, IF: 1.119, (SCIE).
34. A. Minaeian, M. Nili-Ahmadabadi, **M. Norouzi**, "Numerical study of Phan-Thien–Tanner viscoelastic fluid flow around a two-dimensional circular cylinder at a low Reynolds number: A new classification for drag variations regimes", Meccanica, 54(11): 1717-1745, 2019, DOI: 10.1007/s11012-019-01049-5, ISSN: 0025-6455, IF: 2.258, (SCIE).
35. M.G.E. Moghadam, M.M. Shahmardan, **M. Norouzi**, "Dissipative particle dynamics modeling of a mini-MR damper focus on magnetic fluid", Journal of Molecular Liquids, 283: 736-747, 2019, DOI: 10.1016/j.molliq.2019.03.131, ISSN: 0167-7322, IF: 6.165, (SCIE).
36. **M. Norouzi**, A. Emamian, M. Davoodi, "An analytical and experimental study on dynamics of a circulating Boger drop translating through Newtonian fluids at inertia regime", Journal of Non-Newtonian Fluid Mechanics, 269: 1-13, 2019, DOI: 10.1016/j.jnnfm.2019.03.005, ISSN: 0377-0257, IF: 2.670 (SCIE).
37. M.M. Zolfagharian, M.H. Kayhani, **M. Norouzi**, "Parametric investigation of twin tube magnetorheological dampers using a new unsteady theoretical analysis", Journal

of Intelligent Material Systems and Structures, 30(6): 878-895, 2019, DOI: 10.1177/1045389X19828494, ISSN: 1045-389X, IF: 2.569, (SCIE).

38. **M. Norouzi**, H. Abdolnezhad, S. Mandani, "An experimental investigation on inertia motion and deformation of Boger drops falling through Newtonian media", Meccanica, 54(3): 473-490, 2019, DOI: 10.1007/s11012-019-00961-0, ISSN: 0025-6455, IF: 2.258, (SCIE).
39. A.J. Gharibvand, **M. Norouzi**, M.M. Shahmardan, "Dissipative particle dynamics simulation of magnetorheological fluids in shear flow", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 41(2): 1-16, 2019, DOI: 10.1007/s40430-019-1592-3, ISSN: 1678-5878, IF: 2.220, (SCIE).
40. **M. Norouzi**, S. Dorrani, H. Shokri, O. Anwar Bég, "Effects of viscous dissipation on miscible thermo-viscous fingering instability in porous media", International Journal of Heat and Mass Transfer 129: 212-223, 2019, DOI: 10.1016/j.ijheatmasstransfer.2018.09.048Get, ISSN: 0017-9310, IF: 5.584, (SCIE).
41. M. Davoodi, S. Lerouge, **M. Norouzi**, R.J. Poole, "Secondary flows due to finite aspect ratio in inertialess viscoelastic Taylor–Couette flow", Journal of Fluid Mechanics, 857: 823-850, 2018, DOI: 10.1017/jfm.2018.746, ISSN: 0022-1120, IF: 3.627, (SCIE).
42. S. Bahrami, **M. Norouzi**, "A numerical study on hemodynamics in the left coronary bifurcation with normal and hypertension conditions", Biomechanics and Modeling in Mechanobiology, 17(6): 1785-1796, 2018, DOI: 10.1007/s10237-018-1056-1, ISSN: 1617-7959, IF: 2.963, (SCIE).
43. S.Z. Daghighi, **M. Norouzi**, "Effects of viscous dissipation on heat convection of viscoelastic flow inside isothermal channels and tubes", Korea-Australia Rheology Journal, 30(4): 273-292, 2018, DOI: 10.1007/s13367-018-0026-6, ISSN: 1226-119X, IF: 1.446, (SCIE).
44. A. Shahbani-Zahiri, M.M. Shahmardan, H. Hassanzadeh, **M. Norouzi**, "Effects of fluid inertia and elasticity and expansion angles on recirculation and thermal regions of viscoelastic flow in the symmetric planar gradual expansions", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40(10): 1-20, 2018, DOI: 10.1007/s40430-018-1398-8, ISSN: 1678-5878, IF: 2.220, (SCIE).
45. **M. Norouzi**, A.A. Yazdi, A.K. Birjandi, "A numerical study on Saffman-Taylor instability of immiscible viscoelastic-Newtonian displacement in a Hele-Shaw cell", Journal of Non-Newtonian Fluid Mechanics, 260: 109-119, 2018, DOI: 10.1016/j.jnnfm.2018.06.007, ISSN: 0377-0257, IF: 2.670, (SCIE).
46. **M. Norouzi**, M.R. Rezaie, "An exact analysis on heat convection of nonlinear viscoelastic flows in isothermal microtubes under slip boundary condition", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40(9):1-17, 2018, DOI: 10.1007/s40430-018-1389-9, ISSN: 1678-5878, IF: 2.220, (SCIE).
47. **M. Norouzi**, M. Davoodi, O. Anwar Beg, MD. Shamshuddin, "Theoretical study of Oldroyd-B visco-elastic fluid flow through curved pipes with slip effects in polymer flow processing", International Journal of Applied and Computational Mathematics, 4, 108, 2018, DOI: 10.1007/s40819-018-0541-7, ISSN: 23495103, IF: 1.65, (SCIE).

48. A. Shahbani Zahiri, M.M. Shahmardan, H. Hassanzadeh, **M. Norouzi**, "Numerical simulation of inertial flow of heated and cooled viscoelastic fluids inside a planar sudden expansion channel: investigation of stresses effects on the total dissipation", Meccanica, 53(11-12): 2897-2920, 2018, DOI: 10.1007/s11012-018-0871-x, ISSN: 0025-6455, IF: 2.258, (SCIE).
49. H. Shokri, M.H. Kayhani, **M. Norouzi**, "Saffman–Taylor instability of viscoelastic fluids in anisotropic porous media", International Journal of Mechanical Sciences, 135: 1-13, 2018, DOI: 10.1016/j.ijmecsci.2017.11.008, ISSN: 0020-7403, IF: 5.329, (SCIE).
50. A.A. Yazdi, **M. Norouzi**, "Numerical study of Saffman-Taylor instability in immiscible nonlinear viscoelastic flows", Rheologica Acta, 57: 575–589, 2018, DOI: 10.1007/s00397-018-1101-0, ISSN: 0035-4511, IF: 2.627, (SCIE).
51. **M. Norouzi**, S. Z. Daghighi, O. Anwar Bég, "Exact analysis of heat convection of viscoelastic FENE-P fluids through isothermal slits and tubes", Meccanica, 53: 817-831, 2018, DOI: 10.1007/s11012-017-0782-2, ISSN: 0025-6455, IF: 2.258, (SCIE).
52. A. Shahbani Zahiri, H. Hassanzadeh, M.M. Shahmardan, **M. Norouzi**, "Investigation of pitchfork bifurcation phenomena effects on heat transfer of viscoelastic flow inside a symmetric sudden expansion", Physics of Fluids, 29, 113101 (2017), DOI: 10.1063/1.5009434, ISSN: 1070-6631, IF: 3.521, (SCIE).
53. **M. Norouzi**, M. Davoodi, "Analytical study on motion and shape of creeping Boger drops falling through viscoelastic media", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40(3): 125, 2018, DOI: 10.1007/s40430-018-1046-3, ISSN: 1678-5878, IF: 2.220, (SCIE).
54. S. Mandani, **M. Norouzi**, M.M. Shahmardan, "An experimental investigation on impact process of Boger drops onto solid surfaces", Korea-Australia Rheology Journal, 30(2): 99-108, 2018, DOI: 10.1007/s13367-018-0011-0, ISSN: 1226-119X, IF: 1.446, (SCIE).
55. H. Delaram, A. Dastfan, **M. Norouzi**, "Optimal thermal placement and loss estimation for power electronic modules", IEEE Transactions on Components, Packaging and Manufacturing Technology, 8(2): 236–243, 2018, DOI: 10.1109/TCPMT.2017.2781282, ISSN: 2156-3950, IF: 1.738, (SCIE).
56. **M. Norouzi**, A. Jafari, M. Mahmoudi, "A numerical study on nonlinear dynamics of three-dimensional time-depended viscoelastic Taylor-Couette flow", Rheologica Acta, 57(2): 127-140, 2017, DOI: 10.1007/s00397-017-1059-3, ISSN: 0035-4511, IF: 2.627, (SCIE).
57. A. Abbas Nejad, Z. Talebi, D. Cheraghali, A. Shahbani-Zahiri, **M. Norouzi**, "Pulsatile flow of non-Newtonian blood fluid inside stenosed arteries: Investigating the effects of viscoelastic and elastic walls, arteriosclerosis, and polycythemia", Computer methods and programs in biomedicine, 154: 109-122, 2018, DOI: 10.1016/j.cmpb.2017.11.016, ISSN: 0169-2607, IF: 5.428, (SCIE).
58. M.R. Rezaie, **M. Norouzi**, "Numerical investigation of MHD flow of non-Newtonian fluid over confined circular cylinder: a lattice Boltzmann Approach", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40(4): 185, 2018, DOI: 10.1007/s40430-018-1128-2, ISSN: 1678-5878, IF: 2.220, (SCIE).

59. **M. Norouzi**, H. Rahmani, "An exact analysis for transient anisotropic heat conduction in truncated composite conical shells", Applied Thermal Engineering, 124: 422-431, 2017, DOI: 10.1016/j.applthermaleng.2017.06.039, ISSN: 1359-4311, IF: 5.295, (SCIE).

60. **M. Norouzi**, A. Shahbani Zahiri, M.M. Shahmardan, H. Hassanzadeh, Z. Talebi, "A numerical study on pressure losses in asymmetric viscoelastic flow through symmetric planar gradual expansions", European Journal of Mechanics - B/Fluids, 65: 199–212, 2017, DOI: 10.1016/j.euromechflu.2017.04.006, ISSN: 0997-7546, IF: 2.183, (SCIE).

61. **M. Norouzi**, S.M. Sajjadi Alehashem, H. Vatandoost, "Dynamic characterization and modeling of isotropic magnetorheological elastomers under tensile-compressive loadings", IEEE Transaction on Magnetics, 53 (9): 2900412, 2017, DOI: 10.1109/TMAG.2017.2698403, ISSN: 0018-9464, IF: 1.700, (SCIE).

62. M. Halimi, A. Abbas Nejad, **M. Norouzi**, "A comprehensive experimental investigation of the performance of closed-loop pulsating heat pipes", Journal of Heat Transfer, 139(9): 092003, 2017, DOI: 10.1115/1.4036460, ISSN: 0022-1481, IF: 2.021, (SCIE).

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