

Mahmood Norouzi

Personal Information

Name: Mahmood

Surname: Norouzi

Academic Degree: Ph.D. in Mechanical Engineering

Position: Full Professor in Mechanical Engineering

Place of Birth: Tehran, Iran

Nationality: Iranian (Persian)

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Research Interests

- Rheology and Non-Newtonian Fluid Mechanics
- Fluid Dynamics (Especially instability of fluid flows) and Heat Transfer
- Numerical Methods and Computational Fluid Dynamics
- Composite Materials
- Ventilation and Air Conditioning

Educations

Joint PhD Program of Shahrood University of Technology and Amirkabir 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 half a 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 Iran's National Elites Foundation
- Member of the Rheology Society
- Member of the Iranian Society of Rheology
- Member of the Iranian Association of Mechanical Engineering

Taught Courses

- Non-Newtonian Fluid Mechanics
- Computational Fluid Dynamics (I & II)
- Advanced Fluid Mechanics
- Advanced Numerical Methods
- Advanced Engineering Mathematics (I & II)
- Fluid Mechanics
- Engineering Mathematics
- Industrial Ventilation
- Dynamics

Professional Experiences

- Full Professor, Mechanical Engineering Department, Shahrood University of Technology, Shahrood, Iran, Feb 2010–Present.
- Brain Pool fellowship at Pusan National University for a year (2022 to 2023).
- Director-in-Charge, Journal of Solid and Fluid Mechanics, 2013–Present.
- Management Editor, Journal of Solid and Fluid Mechanics, 2011–2013.
- Editorial Board Member, Journal of Applied Dynamic Systems and Control, 2020–Present.
- Director of International Office at the Shahrood University of Technology, 2019–2022.
- Director of University-Industry Relations Office at the Shahrood University of Technology, Shahrood, Iran, June 2014–2019.
- Member of the Railway Committee in the Iranian National Standard Institute, 2008–2009.
- R&D Expert in RAJA Inc., 2006–2009.
- Expert in Design and R&D Groups of Havasaz Inc., 2001–2003.

Technical Skills

- Fluid flow visualization
- Programming the CFD codes
- Measuring the rheological properties of complex fluids, smart materials, semi-solid materials, and rubbers
- Piping and Design for 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 Iran's National Elites Foundation (2012)
- Superior research award of Semnan State (2017)
- Superior teaching awards of Shahrood University of Technology for eleven times (2011 to 2025)
- Superior research awards of Shahrood University of Technology for ten times (2012 to 2025)
- The first rank in the entrance exam for a Ph.D. degree (2005)
- Superior research award for graduate students (three times, 2007 to 2009)

Reviewer for:

- Physics of Fluids (Star-Reviewer)
- Journal of Non-Newtonian Fluid Mechanics
- Scientific Reports
- Rheologica Acta
- Journal of Heat Transfer-Transactions of The ASME
- International Journal of Heat and Mass Transfer
- International Journal of Thermal Sciences
- Applied Thermal Engineering
- Journal of The Franklin Institute
- Chemical Engineering Science
- Ain Shams Engineering Journal
- Scientia Iranica
- Nonlinear Dynamics
- 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
- 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
- More than 10 International Conferences

Publications

Books

1. **M. Norouzi**, M.H. Izadifard, A. Anaraki, M.H. Sedaghat, M. Ghatee, K. Sadeghy, *Non-Newtonian Fluid Mechanics*, Tehran University Press, Tehran, In Press.
2. **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.
3. **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. Norouzi**, A.H. Adibimanesh, M.K. Sheykhan, A. Emamian, M.H. Izadifard, M.H. Kayhani, M. Kim, K.C. Kim, Velocity jump of Newtonian droplets in viscoelastic fluids: analytical and experimental study, **Journal of Fluid Mechanics**, Accepted Paper (In Press), 2026, ISSN: 0022-1120, IF: 3.9, (SCIE).
2. A. Fazli Yeknomi, **M. Norouzi**, S.M. Hashemian, K. Sadeghy, M.H. Izadifard, Analytical and numerical study of Taylor–Couette flow of viscoelastic fluid between finite cylinders, **Physics of Fluids**, 38 (2), 023116, 2026, DOI: 10.1063/5.0310394, ISSN: 1070-6631, IF: 4.3, (SCIE).
3. M. Talebizadeh, R. Bagheri, S. Zarei-Doudeji, **M. Norouzi**, H. Jafari, Analytical solution of capture zone in a multi-horizontal wells system: Clues to the trapping contaminant plume, **Journal of Hydrologic Engineering-ASCE**, Accepted Paper (In Press), 2026, ISSN: 1084-0699, IF: 1.9, (SCIE).
4. A. Neshat, **M. Norouzi**, M. Nazari, H. Gerivani, M.H. Izadifard, Viscoelastic droplets via flow-focusing: From dripping to jetting and beads-on-a-string structures, **Physics of Fluids**, 37 (11), 113101, 2025, DOI: 10.1063/5.0292429, ISSN: 1070-6631, IF: 4.3, (SCIE).
5. M.M. Sharghi, **M. Norouzi**, A. Abbaspur, M.H. Izadifard, The role of nonlinear viscoelasticity in journal bearing lubrication: Insight from the Phan–Thien–Tanner model, **Physics of Fluids**, 37 (8), 083141, 2025, DOI: 10.1063/5.0284984, ISSN: 1070-6631, IF: 4.3, (SCIE).
6. M.R. Kord, **M. Norouzi**, M.M. Shahmardan, M.H. Kayhani, M.H. Izadifard, M.K. Sheykhan, Numerical investigation of viscoelastic fluid flow into a hyperbolic wavy Hele–Shaw Cell, **Chemical Engineering & Technology**, 48 (7), e70088, 2025, DOI: 10.1002/ceat.70088, ISSN: IF: 1.6, (SCIE).

7. M. Talebizadeh, R. Bagheri, S. Zarei-Doudeji, **M. Norouzi**, Taylor's expansion application in simplifying the groundwater analytical solution equations, **Geopersia**, 15 (1), 201-210, 2025. DOI: 10.22059/geope.2024.384291.648783, ISSN: 2228-7817, IF: 0.9, (SCIE).
8. M.H. Izadifard, **M. Norouzi**, S.M. Varedi-Koulai, M. Ghatee, A. Alimardan, M.M. Zolfagharian, Optimized neural network framework for MRE fabrication with targeted stiffness and damping, **Smart Materials and Structures**, 34 (4), 045014, 2025, DOI: 10.1088/1361-665X/adc961, ISSN: 0964-1726, IF: 3.8, (SCIE).
9. B. Yari, **M. Norouzi**, S.M. Hashemian, M. Ghatee, M.H. Izadifard, Synthesis and characterization of a novel magnetorheological fluid based on surfactants with dual hydrophilic/hydrophobic property, **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, 708, 136034, 2025, DOI: 10.1016/j.colsurfa.2024.136034, ISSN: 1873-4359, IF: 5.4, (SCIE).
10. M. Zamani-Taghizadeh-Rabe, **M. Norouzi**, A. A. Nejad, A. Minaeian, M.H. Izadifard, Three-dimensional Phan-Thien-Tanner viscoelastic flows around a sphere, **Physics of Fluids**, 37 (1), 013114, 2025, DOI: 10.1063/5.0239822, ISSN: 1070-6631, IF: 4.3, (SCIE).
11. M. Zaboli, M.M. Shahmardan, **M. Norouzi**, Development of random vortex method to simulate turbulent flows of non-Newtonian fluids, **Physics of Fluids**, 36 (10), 103106, 2024, DOI: 10.1063/5.0222414, ISSN: 1070-6631, IF: 4.3, (SCIE).
12. S.A. Vaziri, **M. Norouzi**, P. Akbarzadeh, K.C. Kim, M. Kim, Thermohydrodynamic analysis of magnetorheological conical bearings with conjugated heat transfer, **Scientific Reports**, 14 (1), 20596, 2024, DOI: 10.1038/s41598-024-71759-8, ISSN: 2045-2322, IF: 3.9, (SCIE).
13. M.H. Izadifard, **M. Norouzi**, M. Ghatee, M.B. Nazari, A. Alimardan, Experimental characterization and fractional modelling of anisotropic magnetorheological elastomers under the influence of temperature and magnetic fields, **Soft Matter**, 20 (7), 1629-1650, 2024, DOI: 10.1039/D3SM01456H, ISSN: 1744-683X, IF: 2.8, (SCIE).
14. A.H. Tabalvandani, **M. Norouzi**, M.H. Kayhani, A.K. Birjandi, A. Emamian, K.C. Kim, M. Kim, A general analytical solution for fluid flow and heat convection through arbitrary-shaped triangular ducts: A variational analysis, **Heliyon**, 10 (4), e25293, DOI: 10.1016/j.heliyon.2024.e25293, ISSN: 2405-8440, IF: 3.6, (SCIE).
15. S.A. Vaziri, **M. Norouzi**, P. Akbarzadeh, K.C. Kim, M. Kim, Numerical analysis of conical hydrodynamic bearing lubricated with magnetorheological fluid, **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, 46, 67, 2024, DOI: 10.1007/s40430-023-04616-w, ISSN: 1678-5878, IF: 2.1, (SCIE).
16. H. Shokri, M.H. Kayhani, **M. Norouzi**, M. Kim, K.C. Kim, Effect of elasticity and nonlinear viscosity on fingering instability in heterogeneous porous media, **Chemical Engineering & Technology**, 47 (3), 510-519, 2024, DOI: 10.1002/ceat.202300376, IF: 1.8, (SCIE).
17. A. Abbaspur, **M. Norouzi**, P. Akbarzadeh, S.A. Vaziri, M.M. Sharghi, K.C. Kim, M. Kim, An analytical study on nonlinear viscoelastic lubrication in journal bearings, **Scientific Reports**, 13 (1), 16836, 2023, DOI: 10.1038/s41598-023-43712-8, ISSN: 2045-2322, IF: 3.9, (SCIE).

18. P. Pouyaei, M.H. Kayhani, **M. Norouzi**, A. Bakhshinejad Bahambari, M. Kim, K.C. Kim, Effect of a curved turning vane on the heat transfer and fluid flow of four-pass internal cooling channels of gas turbine blades, **Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering**, 237(16), 2023, DOI: 10.1177/09544100231204950, ISSN: 0954-4100, IF: 1.1, (SCIE).
19. M.R. Attari, **M. Norouzi**, M.H. Kayhani, A. Bakhshinejad Bahambari, M. Kim, K.C. Kim, Effect of oscillating flow on two rows of cooling holes with various configurations on film cooling performance, **Numerical Heat Transfer, Part A: Applications**, 85 (24), 4228-4257, 2023, DOI: 10.1080/10407782.2023.2255932, ISSN: 1040-7782, IF: 3.5, (SCIE).
20. A. Arshadi, M. Nili-Ahmadabadi, A. Minaeian, **M. Norouzi**, M.Y. Ha, Flow and heat transfer in Phan-Thien–Tanner viscoelastic fluid around a rotating hot cylinder in a square enclosure, **Physics of Fluids**, 35, 093109, 2023, DOI: 10.1063/5.0163001, ISSN: 1070-6631, IF: 4.3, (SCIE).
21. M.K. Sheykhan, M.H. Kayhani, **M. Norouzi**, M. Kim, K.C. Kim, An experimental study on the impact of Boger and Newtonian droplets on spherical surfaces, **Physics of Fluids**, 35 (8), 083117, 2023, DOI: 10.1063/5.0162867, ISSN: 1070-6631, IF: 4.3, (SCIE).
22. A. Kazemi, **M. Norouzi**, A.A. Nejad, M. Kim, K.C. Kim, S.G. Kim, An experimental study on the role and contribution of the first normal stress difference and elongational viscosity in immiscible viscoelastic Saffman-Taylor instability, **Chemical Engineering Research and Design**, 197, 211-227, 2023, DOI: 10.1016/j.cherd.2023.07.036, ISSN: 0263-8762, IF: 3.9, (SCIE).
23. M.R. Rezaie, **M. Norouzi**, M.H. Kayhani, S.M. Taghavi, M. Kim, K.C. Kim, On viscoelastic drop impact onto thin films: axisymmetric simulations and experimental analysis, **Scientific Reports**, 13 (1), 11041, 2023, DOI: 10.1038/s41598-023-38235-1, ISSN: 2045-2322, IF: 3.9, (SCIE).
24. S.M. Mirtabaie, **M. Norouzi**, M. Nazari, M. Kim, K.C. Kim, A Numerical study on the multiphase Newtonian and non-Newtonian displacement in a porous micromodel via water–surfactant–polymer flooding, **Journal of Engineering Mechanics-ASCE**, 149 (9), 04023064, 2023, DOI: 10.1061/JENMDT.EMENG-7127, ISSN: 0733-9399, IF: 3.2, (SCIE).
25. M.G.E. Moghadam, M.M. Shahmardan, **M. Norouzi**, Dissipative particle dynamics modeling of MR fluid flow in a novel magnetically optimized mini-MR damper, **Korea-Australia Rheology Journal**, 34 (4), 291-315, 2022, DOI: 10.1007/s13367-022-00037-8, ISSN: 1226-119X, IF: 2.2, (SCIE).
26. 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: 2.1, (SCIE).
27. 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**, 304, 104795, 2022, DOI: 10.1016/j.jnnfm.2022.104795, ISSN: 0377-0257, IF: 2.8 (SCIE).

28. P. Akbarzadeh, **M. Norouzi**, R. Ghasemi, S.Z. Daghighi, Experimental study on the entry of solid spheres into Newtonian and non-Newtonian fluids, **Physics of Fluids**, 34(3), 033111, 2022, DOI: 10.1063/5.0081002, ISSN: 1070-6631, IF: 4.3, (SCIE).
29. 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: 1.9, (SCIE).
30. 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**, 34 (1), 013106, 2022, DOI: 10.1063/5.0080956, ISSN: 1070-6631, IF: 4.3, (SCIE).
31. 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**, 147, 1773–1792, 2022 DOI: 10.1007/s10973-020-10434-2, ISSN: 1388-6150, IF: 3.1, (SCIE).
32. 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**, 56, 2979–2999, 2021, DOI: 10.1007/s11012-021-01438-9, ISSN: 0025-6455, IF: 2.1, (SCIE).
33. 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**, 235, 7, 1595-1618, 2021, DOI: 10.1177/09576509211008277, ISSN: 0957-6509, IF: 1.1, (SCIE).
34. 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**, 56, 2021–2038, 2021, DOI: 10.1007/s11012-021-01363-x, ISSN: 0025-6455, IF: 2.1, (SCIE).
35. 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: 1.1, (SCIE).
36. 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: 3.1, (SCIE).
37. **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: 1.4, (SCIE).
38. **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-ASCE**, 147(4): 04021006, 2021, DOI: 10.1061/(ASCE)EM.1943-7889.0001906, ISSN: 0733-9399, IF: 3.2, (SCIE).
39. 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: 2.2, (SCIE).
 40. **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: 2.1, (SCIE).
 41. 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: 2.2, (SCIE).
 42. 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: 4.3, (SCIE).
 43. H. Shokri, M. H. Kayhani, **M. Norouzi**, Nonlinear Simulation of viscoelastic fingering instability in miscible displacement through homogeneous and heterogeneous porous media, **Journal of Engineering Mechanics-ASCE**, 145(12), 2019, DOI: 10.1061/(ASCE)EM.1943-7889.0001687, ISSN: 0733-9399, IF: 3.2, (SCIE).
 44. 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: 2.8, (SCIE).
 45. 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: 3.4, (SCIE).
 46. 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: 3, (SCIE).
 47. 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: 2.2, (SCIE).
 48. **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-ASME**, 12(1): 011020, 2020, DOI: 10.1115/1.4044346, ISSN: 1948-5093, IF: 1.4, (SCIE).

49. 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: 5.4, (SCIE).
50. 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: 2.1, (SCIE).
51. 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: 2.1, (SCIE).
52. 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: 2.1, (SCIE).
53. 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: 2.3, (SCIE).
54. 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: 5.0, (SCIE).
55. H. Vandoost, 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: 1.9, (SCIE).
56. 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: 2.1, (SCIE).
57. H. Rahmani, **M. Norouzi**, Alireza K. Birjandi, Amir K. Birjandi, An exact solution for transient anisotropic heat conduction in composite cylindrical shells, **ASME Journal of Heat and Mass Transfer**, 141(10): 101301, 2019, DOI: 10.1115/1.4044157, ISSN: 2832-8450, IF: 2.8, (SCIE).
58. **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: 1.5, (SCIE).
59. 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: 2.1, (SCIE).
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