Mahmood Norouzi

List of Publications by Year
in descending order

108 papers	1,436 citations	331259 21 h-index	414034 32 g-index
113 all docs	113 docs citations	113 times ranked	1085 citing authors

#	Article	IF	Citations
1	Effects of viscoelasticity on the onset of vortex shedding and forces applied on a cylinder in unsteady flow regime. Physics of Fluids, 2022, 34, .	1.6	8
2	Aspect Ratio Dependency of Magneto-Rheological Elastomers in Dynamic Tension-Compression Loading. IEEE Transactions on Magnetics, 2022, 58, 1-13.	1.2	3
3	Experimental study on the entry of solid spheres into Newtonian and non-Newtonian fluids. Physics of Fluids, 2022, 34, .	1.6	8
4	Drops with circular stagnation lines: combined effects of viscoelastic and inertial forces on drop shape. Journal of Non-Newtonian Fluid Mechanics, 2022, 304, 104795.	1.0	5
5	An investigation on nonlinear viscoelastic lubrication using FENE-P constitutive equation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	1
6	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, 2021, 235, 66-79.	1.4	1
7	A new mathematical technique for analysis of internal viscoplastic flows through rectangular ducts. Journal of Engineering Mathematics, 2021, 127, 1.	0.6	2
8	Linear Stability Analysis and CFD Simulation of Thermal Viscous Fingering Instability in Anisotropic Porous Media. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	3
9	Numerical analysis of the drop impact onto a liquid film of non-linear viscoelastic fluids. Meccanica, 2021, 56, 2021-2038.	1.2	2
10	Experimental investigation of spreading and receding behaviors of Newtonian and viscoelastic droplet impacts on inclined dry surfaces. Meccanica, 2021, 56, 125-145.	1.2	4
11	Magneto-rheological damper modeling by using dissipative particle dynamics method. Computational Particle Mechanics, 2020, 7, 567-592.	1.5	2
12	Forced convective heat transfer of nonlinear viscoelastic flows over a circular cylinder at low Reynolds inertia regime. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105134.	1.7	7
13	A numerical study on viscoelastic boundary layer on flat plate. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	2
14	Effects of elasticity on unsteady forced convective heat transfer of viscoelastic fluid around a cylinder in the presence of viscous dissipation. Physics of Fluids, 2020, 32, 083102.	1.6	3
15	A novel bi-directional shear mode magneto-rheological elastomer vibration isolator. Journal of Intelligent Material Systems and Structures, 2020, 31, 2002-2019.	1.4	25
16	Hemodynamic impacts of hematocrit level by two-way coupled FSI in the left coronary bifurcation. Clinical Hemorheology and Microcirculation, 2020, 76, 9-26.	0.9	3
17	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, 2020, 12, .	0.8	0
18	An Exact Solution for Transient Anisotropic Heat Conduction in Composite Cylindrical Shells. Journal of Heat Transfer, 2019, 141, .	1.2	6

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19	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, 2019, 41, 1.	0.8	0
20	Numerical modeling of the fluid hammer phenomenon of viscoelastic flow in pipes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	5
21	Heterogeneous anisotropic conductive heat transfer in composite conical shells: An exact analysis. International Journal of Heat and Mass Transfer, 2019, 144, 118614.	2.5	3
22	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, 2019, 54, 1717-1745.	1.2	7
23	Nonlinear Simulation of Viscoelastic Fingering Instability in Miscible Displacement through Homogeneous and Heterogeneous Porous Media. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019098.	1.6	1
24	Dissipative particle dynamics simulation of magnetorheological fluids in shear flow. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	9
25	A New Exact Analysis for Anisotropic Conductive Heat Transfer in Truncated Composite Spherical Shells. Journal of Mechanics, 2019, 35, 677-691.	0.7	2
26	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, 2019, 267, 1-13.	1.0	10
27	Parametric investigation of twin tube magnetorheological dampers using a new unsteady theoretical analysis. Journal of Intelligent Material Systems and Structures, 2019, 30, 878-895.	1.4	7
28	An experimental investigation on inertia motion and deformation of Boger drops falling through Newtonian media. Meccanica, 2019, 54, 473-490.	1.2	2
29	On the miscible thermo-viscous fingering instability of non-Newtonian fluids in heterogeneous porous media. Rheologica Acta, 2019, 58, 755-769.	1.1	3
30	A Supervised Artificial Neural Network-Assisted Modeling of Magnetorheological Elastomers in Tension–Compression Mode. IEEE Transactions on Magnetics, 2019, 55, 1-8.	1.2	11
31	Effects of viscous dissipation on miscible thermo-viscous fingering instability in porous media. International Journal of Heat and Mass Transfer, 2019, 129, 212-223.	2.5	29
32	Analytical study on motion and shape of creeping Boger drops falling through viscoelastic media. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	1
33	Optimal Thermal Placement and Loss Estimation for Power Electronic Modules. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 236-243.	1.4	17
34	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, 2018, 40, 1.	0.8	8
35	Exact analysis of heat convection of viscoelastic FENE-P fluids through isothermal slits and tubes. Meccanica, 2018, 53, 817-831.	1.2	20
36	Saffman–Taylor instability of viscoelastic fluids in anisotropic porous media. International Journal of Mechanical Sciences, 2018, 135, 1-13.	3.6	11

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37	Pulsatile flow of non-Newtonian blood fluid inside stenosed arteries: Investigating the effects of viscoelastic and elastic walls, arteriosclerosis, and polycythemia diseases. Computer Methods and Programs in Biomedicine, 2018, 154, 109-122.	2.6	31
38	Effects of viscous dissipation on heat convection of viscoelastic flow inside isothermal channels and tubes. Korea Australia Rheology Journal, 2018, 30, 273-292.	0.7	5
39	Secondary flows due to finite aspect ratio in inertialess viscoelastic Taylor–Couette flow. Journal of Fluid Mechanics, 2018, 857, 823-850.	1.4	10
40	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, 2018, 40, 1.	0.8	2
41	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, 2018, 40, 1.	0.8	2
42	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, 2018, 53, 2897-2920.	1.2	1
43	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, 2018, 4, 1.	0.9	24
44	A numerical study on hemodynamics in the left coronary bifurcation with normal and hypertension conditions. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1785-1796.	1.4	22
45	A numerical study on Saffman-Taylor instability of immiscible viscoelastic-Newtonian displacement in a Hele-Shaw cell. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 109-119.	1.0	8
46	Numerical study of Saffman–Taylor instability in immiscible nonlinear viscoelastic flows. Rheologica Acta, 2018, 57, 575-589.	1.1	7
47	An experimental investigation on impact process of Boger drops onto solid surfaces. Korea Australia Rheology Journal, 2018, 30, 99-108.	0.7	4
48	A numerical study on nonlinear dynamics of three-dimensional time-depended viscoelastic Taylor-Couette flow. Rheologica Acta, 2018, 57, 127-140.	1.1	4
49	Nonlinear simulation and linear stability analysis of viscous fingering instability of viscoelastic liquids. Physics of Fluids, 2017, 29, .	1.6	32
50	A numerical study on pressure losses in asymmetric viscoelastic flow through symmetric planar gradual expansions. European Journal of Mechanics, B/Fluids, 2017, 65, 199-212.	1.2	3
51	A novel phenomenological model for dynamic behavior of magnetorheological elastomers in tension–compression mode. Smart Materials and Structures, 2017, 26, 065011.	1.8	49
52	A Comprehensive Experimental Investigation of the Performance of Closed-Loop Pulsating Heat Pipes. Journal of Heat Transfer, 2017, 139, .	1.2	3
53	Dynamic Characterization and Modeling of Isotropic Magnetorheological Elastomers Under Tensile-Compressive Loadings. IEEE Transactions on Magnetics, 2017, 53, 1-12.	1.2	19
54	An exact analysis for transient anisotropic heat conduction in truncated composite conical shells. Applied Thermal Engineering, 2017, 124, 422-431.	3.0	7

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55	A numerical study on drop formation of viscoelastic liquids using a nonlinear constitutive equation. Meccanica, 2017, 52, 3593-3613.	1.2	4
56	Investigation of pitchfork bifurcation phenomena effects on heat transfer of viscoelastic flow inside a symmetric sudden expansion. Physics of Fluids, 2017, 29, 113101.	1.6	11
57	Investigation of stresses and normal stress differences behavior on symmetric and asymmetric polymeric fluid flow through planar gradual expansions. Meccanica, 2017, 52, 1889-1909.	1.2	2
58	Numerical simulation of blood flow through a capillary using a non-linear viscoelastic model. Clinical Hemorheology and Microcirculation, 2016, 62, 109-121.	0.9	5
59	An investigation on the motion and deformation of viscoelastic drops descending in another viscoelastic media. Physics of Fluids, 2016, 28, 103103.	1.6	7
60	Wake instability of viscoelastic flows past an unconfined inclined square cylinder. Physics of Fluids, 2016, 28, .	1.6	11
61	Theoretical and experimental study on the motion and shape of viscoelastic falling drops through Newtonian media. Rheologica Acta, 2016, 55, 935-955.	1.1	3
62	Analytical solution for the convection of Phan-Thien-Tanner fluids in isothermal pipes. International Journal of Thermal Sciences, 2016, 108, 165-173.	2.6	8
63	A new approach for modeling of magnetorheological elastomers. Journal of Intelligent Material Systems and Structures, 2016, 27, 1121-1135.	1.4	82
64	Numerical simulation of muco-ciliary clearance: immersed boundary-lattice Boltzmann method. Computers and Fluids, 2016, 131, 91-101.	1.3	16
65	On the effect of mucus rheology on the muco-ciliary transport. Mathematical Biosciences, 2016, 272, 44-53.	0.9	27
66	A general exact analytical solution for anisotropic non-axisymmetric heat conduction in composite cylindrical shells. International Journal of Heat and Mass Transfer, 2016, 93, 41-56.	2.5	12
67	Numerical investigation of drag reduction in a Class 5 medium duty truck. Journal of Mechanical Engineering and Sciences, 2016, 10, 2387-2400.	0.3	3
68	Effect of Cilia Beat Frequency on Muco-ciliary Clearance. Journal of Biomedical Physics and Engineering, 2016, 6, 265-278.	0.5	15
69	Immersed boundary-lattice Boltzmann method for simulation of muco-ciliary transport: effect of mucus depth at various amounts of cilia beat frequency. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012065.	0.3	2
70	Exact Analytical Solution on Convective Heat Transfer of Isothermal Pipes. Journal of Thermophysics and Heat Transfer, 2015, 29, 632-636.	0.9	8
71	Numerical study of vortex shedding in viscoelastic flow past an unconfined square cylinder. Korea Australia Rheology Journal, 2015, 27, 213-225.	0.7	6
72	Linear stability analysis and nonlinear simulation of non-Newtonian viscous fingering instability in heterogeneous porous media. Rheologica Acta, 2015, 54, 973-991.	1.1	15

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73	Exact Analytical Solution for Unsteady Heat Conduction in Fiber-Reinforced Spherical Composites Under the General Boundary Conditions. Journal of Heat Transfer, 2015, 137, .	1.2	23
74	Instability investigation of creeping viscoelastic flows between the rotating cylinders. Theoretical Foundations of Chemical Engineering, 2015, 49, 592-605.	0.2	0
75	An analytical solution for convective heat transfer of viscoelastic flows in rotating curved pipes. International Journal of Thermal Sciences, 2015, 90, 90-111.	2.6	17
76	An exact analytical solution for creeping Dean flow of Bingham plastics through curved rectangular ducts. Rheologica Acta, 2015, 54, 391-402.	1.1	16
77	Bifurcation phenomenon of inertial viscoelastic flow through gradual expansions. Rheologica Acta, 2015, 54, 423-435.	1.1	12
78	On exact solutions for anisotropic heat conduction in composite conical shells. International Journal of Thermal Sciences, 2015, 94, 110-125.	2.6	13
79	On the origin of viscoelastic Taylor-Couette instability resulted from normal stress differences. Korea Australia Rheology Journal, 2015, 27, 41-53.	0.7	4
80	An Analytical Solution for Fully Developed Forced Convection in Triangular Ducts. Heat Transfer - Asian Research, 2015, 44, 489-498.	2.8	5
81	CFD Simulation of Rheological Model Effect on Cuttings Transport. Journal of Dispersion Science and Technology, 2015, 36, 402-410.	1.3	33
82	Cooling performance of a nanofluid flow in a heat sink microchannel with axial conduction effect. Applied Physics A: Materials Science and Processing, 2014, 117, 1821-1833.	1.1	51
83	An analytical solution for viscoelastic dean flow in curved pipes with elliptical cross section. Journal of Non-Newtonian Fluid Mechanics, 2014, 204, 62-71.	1.0	9
84	Simulation of cuttings transport with foam in deviated wellbores using computational fluid dynamics. Journal of Petroleum Exploration and Production, 2014, 4, 263-273.	1.2	29
85	Synthesis, characterization and molecular structure of titanium alkoxide complexes with aromatic oxime ligands. Transition Metal Chemistry, 2014, 39, 55-62.	0.7	3
86	Network and Nakamura tridiagonal computational simulation of electrically-conducting biopolymer micro-morphic transport phenomena. Computers in Biology and Medicine, 2014, 44, 44-56.	3.9	37
87	A numerical study on miscible viscous fingering instability in anisotropic porous media. Physics of Fluids, 2014, 26, .	1.6	20
88	Analytical solution for creeping motion of a viscoelastic drop falling through a Newtonian fluid. Korea Australia Rheology Journal, 2014, 26, 91-104.	0.7	20
89	Numerical simulation of 3D viscoelastic developing flow and heat transfer in a rectangular duct with a nonlinear constitutive equation. Korea Australia Rheology Journal, 2013, 25, 95-105.	0.7	8
90	A general exact solution for heat conduction in multilayer spherical composite laminates. Composite Structures, 2013, 106, 288-295.	3.1	49

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91	Numerical investigation of viscoelastic shedding flow behind a circular cylinder. Journal of Non-Newtonian Fluid Mechanics, 2013, 197, 31-40.	1.0	17
92	Analysis of the effect of normal stress differences on heat transfer in creeping viscoelastic Dean flow. International Journal of Thermal Sciences, 2013, 69, 61-69.	2.6	37
93	On the comparative optimal analysis and synthesis of four-bar function generating mechanism using different heuristic methods. Meccanica, 2013, 48, 1995-2006.	1.2	13
94	An analytical solution for Dean flow in curved ducts with rectangular cross section. Physics of Fluids, 2013, 25, .	1.6	39
95	Synthesis, Characterisation, and X-Ray Crystal Structures of 8-Hydroxyquinoline Complexes of Group IV Metal Alkoxides. Australian Journal of Chemistry, 2013, 66, 1587.	0.5	0
96	Exact Solution of Unsteady Conductive Heat Transfer in Cylindrical Composite Laminates. Journal of Heat Transfer, 2012, 134, .	1.2	16
97	An exact analytical solution for convective heat transfer in rectangular ducts. Journal of Zhejiang University: Science A, 2012, 13, 768-781.	1.3	25
98	Optimal determination of rheological parameters for herschel-bulkley drilling fluids using genetic algorithms (GAs). Korea Australia Rheology Journal, 2012, 24, 163-170.	0.7	35
99	Exact analytical solution of unsteady axi-symmetric conductive heat transfer in cylindrical orthotropic composite laminates. International Journal of Heat and Mass Transfer, 2012, 55, 4427-4436.	2.5	49
100	Instability investigation of creeping viscoelastic flow in a curved duct with rectangular cross-section. International Journal of Non-Linear Mechanics, 2012, 47, 14-25.	1.4	7
101	A general analytical solution for heat conduction in cylindrical multilayer composite laminates. International Journal of Thermal Sciences, 2012, 52, 73-82.	2.6	67
102	Analytical investigation of viscoelastic creeping flow and heat transfer inside a curved rectangular duct. Theoretical Foundations of Chemical Engineering, 2011, 45, 53-67.	0.2	6
103	Optimal synthesis of function generator of four-bar linkages based on distribution of precision points. Meccanica, 2011, 46, 1007-1021.	1.2	20
104	Convective heat transfer for viscoelastic fluid in a curved pipe. Heat and Mass Transfer, 2010, 46, 975-987.	1.2	6
105	Flow of second-order fluid in a curved duct with square cross-section. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 323-339.	1.0	43
106	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, 0, , 095765092110082.	0.8	0
107	Unsteady anisotropic heat conduction in heterogeneous composite conical shells with temperature-dependent thermal conductivities: an analytical study. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	4
108	Secondary flow structures in developing viscoelastic fluid flow through curved ducts with square cross section. Meccanica, 0, , 1.	1.2	2