Kayvan Sadeghy

List of Publications by Year in Descending Order

84 papers	921 citations	15 h-index	27 g-index
86 ext. papers	1,029 ext. citations	2.2 avg, IF	4.53 L-index

#	Paper	IF	Citations
84	Peristaltic transport of elliptic particles: A numerical study. *Physics of Fluids*, **2022**, 34, 023314	4.4	3
83	Corrigendum to "Magnetohydrodynamic flow of Bingham fluids in a plane channel: A theoretical study" *Journal of Non-Newtonian Fluid Mechanics*, **2022**, 303, 104790	2.7	
82	Numerical Simulation of Viscoelastic Effects in Peristaltic Transport of Drops. *Journal of Non-Newtonian Fluid Mechanics*, **2022**, 104826	2.7	
81	On the use of viscous micropumps for transporting viscoelastic fluids in channel flows: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2021**, 291, 104528	2.7	1
80	Numerical analysis of laminar viscoelastic fluid hammer phenomenon in an axisymmetric pipe. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2021**, 43, 1	2	0
79	Hydroelastic instability of viscoelastic fluids in developing flow through a compliant channel **2020**, 32, 99-119		
78	On the use of peristaltic waves for the transport of soft particles: A numerical study. *Physics of Fluids*, **2020**, 32, 062108	4.4	7
77	Predicting the excess pressure drop incurred by LPTT fluids in flow through a planar constricted channel **2019**, 31, 149-166		
76	Magnetohydrodynamic flow of Bingham fluids in a plane channel: A theoretical study. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 264, 1-18	2.7	2
75	Buoyancy-driven exchange flow of immiscible yield-stress fluids in a vertical closed-ended container. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 265, 79-91	2.7	2
74	Peristaltic transport of thixotropic fluids: A numerical simulation **2019**, 31, 71-79		2
73	Linear stability analysis of time-dependent fluids in plane Couette flow past a poroelastic layer. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 266, 1-19	2.7	2
72	Sedimentation of an elliptic rigid particle in a yield-stress fluid: A Lattice-Boltzmann simulation. *Physics of Fluids*, **2019**, 31, 081902	4.4	9
71	Effect of porosity on the settling behavior of a 2D elliptic particle in a narrow vessel: A lattice-Boltzmann simulation. *Physics of Fluids*, **2019**, 31, 123301	4.4	8
70	Peristaltic manipulation of a bio-particle contained in a closed cavity filled with a Bingham fluid: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2018**, 252, 28-47	2.7	3
69	Effect of pillars on the mixing efficiency of a peristaltically-driven Bingham fluid within a closed channel: A LBM simulation **2018**, 30, 75-88		1
68	On the use of a fluid's elasticity for deliberate rise of Taylor cells in a rotating micro-filter separator. *Physics of Fluids*, **2018**, 30, 114106	4.4	4

67	On the use of biphasic mixture theory for investigating the linear stability of viscous flow through a channel lined with a viscoelastic porous bio-material. *International Journal of Non-Linear Mechanics*, **2018**, 105, 200-211	2.8	1
66	Pressure-driven flows of Quemada fluids in a channel lined with a poroelastic layer: A linear stability analysis. *Journal of Non-Newtonian Fluid Mechanics*, **2017**, 242, 23-47	2.7	4
65	On the use of LatticeBoltzmann method for simulating peristaltic flow of viscoplastic fluids in a closed cavity. *Journal of Non-Newtonian Fluid Mechanics*, **2017**, 243, 1-15	2.7	5
64	Viscous fingering in yield stress fluids: a numerical study. *Journal of Engineering Mathematics*, **2016**, 97, 161-176	1.2	15
63	Hydroelastic Instability of Viscoplastic Fluids in Plane Channel Flow. *Nihon Reoroji Gakkaishi*, **2016**, 43, 157-164	0.8	2
62	On the Use of Magnetic Fields for Controlling the Temperature of Hot Spots on Porous Plaques in Stenosis Arteries. *Nihon Reoroji Gakkaishi*, **2016**, 43, 135-144	0.8	4
61	Peristaltic transport of solid particles suspended in a viscoplastic fluid: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 236, 1-17	2.7	4
60	The effect of thixotropy on a rising gas bubble: A numerical study **2016**, 28, 207-216		6
59	Flow and displacement of waxy crude oils in a homogenous porous medium: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 235, 47-63	2.7	6
58	Peristaltic flow of Bingham fluids at large Reynolds numbers: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 227, 30-44	2.7	25
57	Linear stability of shear-thinning fluids in deformable channels: Effect of inertial terms. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 230, 80-91	2.7	9
56	Creeping flow of Herschel-Bulkley fluids in collapsible channels: A numerical study **2016**, 28, 255-265		5
55	Flow of a Casson fluid through a locally-constricted porous channel: a numerical study **2016**, 28, 129-137		8
54	Effect of non-affine motion on the centrifugal instability of circular Couette flow. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 230, 19-30	2.7	
53	Stability of power-law fluids in creeping plane Poiseuille: The effect of wall compliance. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 216, 22-30	2.7	11
52	Viscous Fingering of Thixotropic Fluids: a Linear Stability Analysis. *Nihon Reoroji Gakkaishi*, **2015**, 43, 31-38	0.8	3
51	On the Use of SPH Method for Simulating Gas Bubbles Rising in Viscoelastic Liquids. *Nihon Reoroji Gakkaishi*, **2015**, 42, 309-319	0.8	6
50	Two-phase viscous fingering of immiscible thixotropic fluids: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 218, 40-52	2.7	14

49	Taylor–Couette instability of thixotropic fluids. *Meccanica*, **2015**, 50, 1451-1465	2.1	5
48	Start-up flows of Dullaert–Mewis viscoplastic–thixoelastic fluids: A two-dimensional analysis. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 214, 1-17	2.7	6
47	The effect of a variable plastic viscosity on the restart problem of pipelines filled with gelled waxy crude oils. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 205, 16-27	2.7	38
46	Sakiadis Flow of Harris Fluids: a Series-Solution. *Nihon Reoroji Gakkaishi*, **2014**, 42, 245-253	0.8	
45	Simulating Bubble Shape during its Rise in Carreau-Yasuda Fluids Using WC-SPH Method. *Nihon Reoroji Gakkaishi*, **2014**, 41, 319-329	0.8	8
44	On the Validity of Boundary Layer Theory for Simulating von Karman Flows of Bingham Fluids. *Nihon Reoroji Gakkaishi*, **2014**, 42, 161-167	0.8	1
43	Dynamic of Gas Bubbles Surrounded by a Dullaert-Mewis Thixotropic Fluid. *Nihon Reoroji Gakkaishi*, **2014**, 41, 309-318	0.8	2
42	Peristaltic Flow of Giesekus Fluids through Curved Channels: an Approximate Solution. *Nihon Reoroji Gakkaishi*, **2014**, 42, 9-17	0.8	3
41	Resonance Frequency of Encapsulated Gas Bubbles in Thixotropic Fluids. *Nihon Reoroji Gakkaishi*, **2014**, 42, 1-8	0.8	1
40	Swirling flow of Bingham fluids above a rotating disk: An exact solution. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 197, 41-47	2.7	34
39	Pulsatile Flow of Thixotropic Fluids through a Partially-Constricted Tube. *Nihon Reoroji Gakkaishi*, **2013**, 41, 45-52	0.8	7
38	An exact solution for laminar, unidirectional flow of Houska thixotropic fluids in a circular pipe. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 194, 23-31	2.7	15
37	Translational Motion of Non-Spherical Cavitation Bubbles Collapsing in a Viscoelastic Fluid near a Rigid Boundary. *Nihon Reoroji Gakkaishi*, **2013**, 41, 53-65	0.8	
36	On the use of lattice Boltzmann model for simulating dean flow of non-Newtonian fluids in curved square ducts. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 4250-4261	3.7	1
35	Dynamics of Encapsulated Gas Bubbles Immersed in Thixotropic Fluids. *Nihon Reoroji Gakkaishi*, **2012**, 40, 11-20	0.8	3
34	Taylor-Couette Instability of Giesekus Fluids: Inertia Effects. *Nihon Reoroji Gakkaishi*, **2012**, 40, 195-204	0.8	4
33	Peristaltic Pumping of Thixotropic Fluids: a Numerical Study. *Nihon Reoroji Gakkaishi*, **2012**, 40, 1-9	0.8	6
32	Lubricating Flow of Thixotropic Fluids in Slipper-Pad Bearing: A Numerical Study. *Nihon Reoroji Gakkaishi*, **2011**, 39, 153-158	0.8	1

31	On the Use of Lattice-Boltzmann Model for Simulating Lid-Driven Cavity Flows of Strain-hardening Fluids. *Nihon Reoroji Gakkaishi*, **2011**, 38, 201-207	0.8	4
30	Collapse of Cavitation Gas Bubbles in Giesekus Liquids. *Nihon Reoroji Gakkaishi*, **2011**, 39, 55-64	0.8	
29	Blasius flow of thixotropic fluids: A numerical study. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 711-721	3.7	16
28	Instability of Bingham fluids in Taylor–Dean flow between two concentric cylinders at arbitrary gap spacings. *International Journal of Non-Linear Mechanics*, **2011**, 46, 931-937	2.8	10
27	Taylor–Dean instability of yield-stress fluids at large gaps. *Journal of Non-Newtonian Fluid Mechanics*, **2011**, 166, 607-613	2.7	3
26	The Rise of Second Harmonics in Forced Oscillation of Gas Bubbles in Thixotropic Fluids. *Nihon Reoroji Gakkaishi*, **2011**, 39, 113-117	0.8	4
25	Simualting the Flow of a Thixotropic Fluid above a Fixed Plate at Arbitrary Reynolds Numbers. *Nihon Reoroji Gakkaishi*, **2010**, 38, 109-116	0.8	1
24	Dean Instability of Bingham Fluids in Tangential Flow between Two Fixed Concentric Cylinders. *Nihon Reoroji Gakkaishi*, **2010**, 38, 125-132	0.8	5
23	Chaotic behavior of a single spherical gas bubble surrounded by a Giesekus liquid: A numerical study. *Journal of Non-Newtonian Fluid Mechanics*, **2010**, 165, 800-811	2.7	16
22	On the use of genetic algorithm for finding the neutral instability curve in plane Poiseuille flow. *International Journal of Non-Linear Mechanics*, **2010**, 45, 691-698	2.8	1
21	MHD flows of UCM fluids above porous stretching sheets using two-auxiliary-parameter homotopy analysis method. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 473-488	3.7	46
20	Hydromagnetic linear instability analysis of Giesekus fluids in plane Poiseuille flow. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 2046-2055	3.7	5
19	The influence of thermal radiation on MHD flow of Maxwellian fluids above stretching sheets. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 779-794	3.7	79
18	On the use of homotopy analysis method for solving unsteady MHD flow of Maxwellian fluids above impulsively stretching sheets. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 1355-1365	3.7	42
17	Cavity flow simulation of Carreau–Yasuda non-Newtonian fluids using PIM meshfree method. *Applied Mathematical Modelling*, **2009**, 33, 4131-4145	4.5	26
16	CREEPING FLOW OF VISCOELASTIC FLUIDS THROUGH TAPERED SLIT DIES: AN ANALYTICAL SOLUTION. *Chemical Engineering Communications*, **2009**, 197, 466-480	2.2	2
15	Hydromagnetic Instability of Viscoelastic Fluids in Blasius Flow. *Nihon Reoroji Gakkaishi*, **2009**, 37, 173-180	0.8	2
14	Confined Swirling Flows of Simplified Phan-Thien-Tanner (SPTT) Fluids: a Numerical Study. *Nihon Reoroji Gakkaishi*, **2009**, 37, 149-157	0.8	3

13	On the Role Played by the Extensional Behavior of Giesekus Fluids in Plane Stagnation Flow. *Nihon Reoroji Gakkaishi*, **2009**, 37, 31-38	0.8	2
12	MHD Flow of Power-Law Fluids in Locally-Constricted Channels. *Nihon Reoroji Gakkaishi*, **2009**, 37, 181-189	0.8	1
11	On the use of characteristic-based split meshfree method for solving flow problems. *International Journal for Numerical Methods in Fluids*, **2008**, 56, 1885-1907	1.9	10
10	Simulating drag reduction phenomenon in turbulent pipe flows. *Mechanics Research Communications*, **2008**, 35, 609-613	2.2	8
9	Using Mesh Free Method for Numerical Simulation of Non-Newtonian Fluid Flow Over a Step. *Nihon Reoroji Gakkaishi*, **2008**, 36, 19-27	0.8	3
8	On the Use of Inverse Methods to Parameter Estimation in Turbulent Pipe Flows of Drag Reducing Polymers. *Nihon Reoroji Gakkaishi*, **2008**, 36, 241-251	0.8	1
7	Magnetohydrodynamic (MHD) flows of viscoelastic fluids in converging/diverging channels. *International Journal of Engineering Science*, **2007**, 45, 923-938	5.7	29
6	Translational motion of spherical gas bubbles in viscoelastic liquids subject to acoustic standing wave fields. *Central South University*, **2007**, 14, 82-89		
5	LID-DRIVEN CAVITY SIMULATION BY MESH-FREE METHOD. *International Journal of Computational Methods*, **2007**, 04, 397-415	1.1	1
4	Stagnation-point flow of upper-convected Maxwell fluids. *International Journal of Non-Linear Mechanics*, **2006**, 41, 1242-1247	2.8	98
3	Sakiadis flow of an upper-convected Maxwell fluid. *International Journal of Non-Linear Mechanics*, **2005**, 40, 1220-1228	2.8	103
2	Local similarity solution for the flow of a "second-grade" viscoelastic fluid above a moving plate. *International Journal of Non-Linear Mechanics*, **2004**, 39, 1265-1273	2.8	65
1	Elasticity of associative polymer solutions and slip at high shear stress. *Journal of Non-Newtonian Fluid Mechanics*, **2000**, 90, 127-158	2.7	27