

Kayvan Sadeghy

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

1,206
citations

516710

16
h-index

414414

32
g-index

86
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86
docs citations

86
times ranked

755
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Sakiadis flow of an upper-convected Maxwell fluid. <i>International Journal of Non-Linear Mechanics</i> , 2005, 40, 1220-1228. | 2.6 | 129 |
| 2 | Stagnation-point flow of upper-convected Maxwell fluids. <i>International Journal of Non-Linear Mechanics</i> , 2006, 41, 1242-1247. | 2.6 | 129 |
| 3 | The influence of thermal radiation on MHD flow of Maxwellian fluids above stretching sheets. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 779-794. | 3.3 | 110 |
| 4 | Local similarity solution for the flow of a second-grade viscoelastic fluid above a moving plate. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 1265-1273. | 2.6 | 84 |
| 5 | MHD flows of UCM fluids above porous stretching sheets using two-auxiliary-parameter homotopy analysis method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 473-488. | 3.3 | 59 |
| 6 | Magnetohydrodynamic (MHD) flows of viscoelastic fluids in converging/diverging channels. <i>International Journal of Engineering Science</i> , 2007, 45, 923-938. | 5.0 | 51 |
| 7 | On the use of homotopy analysis method for solving unsteady MHD flow of Maxwellian fluids above impulsively stretching sheets. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1355-1365. | 3.3 | 51 |
| 8 | The effect of a variable plastic viscosity on the restart problem of pipelines filled with gelled waxy crude oils. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 205, 16-27. | 2.4 | 46 |
| 9 | Swirling flow of Bingham fluids above a rotating disk: An exact solution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 197, 41-47. | 2.4 | 41 |
| 10 | Cavity flow simulation of Carreau-Yasuda non-Newtonian fluids using PIM meshfree method. <i>Applied Mathematical Modelling</i> , 2009, 33, 4131-4145. | 4.2 | 34 |
| 11 | Peristaltic flow of Bingham fluids at large Reynolds numbers: A numerical study. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 227, 30-44. | 2.4 | 32 |
| 12 | Elasticity of associative polymer solutions and slip at high shear stress. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 90, 127-158. | 2.4 | 30 |
| 13 | Blasius flow of thixotropic fluids: A numerical study. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 711-721. | 3.3 | 23 |
| 14 | An exact solution for laminar, unidirectional flow of Houska thixotropic fluids in a circular pipe. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 194, 23-31. | 2.4 | 18 |
| 15 | Chaotic behavior of a single spherical gas bubble surrounded by a Giesekus liquid: A numerical study. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 800-811. | 2.4 | 17 |
| 16 | Two-phase viscous fingering of immiscible thixotropic fluids: A numerical study. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 218, 40-52. | 2.4 | 17 |
| 17 | Viscous fingering in yield stress fluids: a numerical study. <i>Journal of Engineering Mathematics</i> , 2016, 97, 161-176. | 1.2 | 17 |
| 18 | Sedimentation of an elliptic rigid particle in a yield-stress fluid: A Lattice-Boltzmann simulation. <i>Physics of Fluids</i> , 2019, 31, . | 4.0 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Simulating drag reduction phenomenon in turbulent pipe flows. Mechanics Research Communications, 2008, 35, 609-613. | 1.8 | 13 |
| 20 | On the use of characteristic-based split meshfree method for solving flow problems. International Journal for Numerical Methods in Fluids, 2008, 56, 1885-1907. | 1.6 | 12 |
| 21 | 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, . | 4.0 | 12 |
| 22 | Stability of power-law fluids in creeping plane Poiseuille: The effect of wall compliance. Journal of Non-Newtonian Fluid Mechanics, 2015, 216, 22-30. | 2.4 | 11 |
| 23 | On the use of peristaltic waves for the transport of soft particles: A numerical study. Physics of Fluids, 2020, 32, . | 4.0 | 11 |
| 24 | 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. | 2.6 | 10 |
| 25 | Pulsatile Flow of Thixotropic Fluids through a Partially-Constricted Tube. Nihon Reoroji Gakkaishi, 2013, 41, 45-52. | 1.0 | 10 |
| 26 | Peristaltic transport of elliptic particles: A numerical study. Physics of Fluids, 2022, 34, . | 4.0 | 10 |
| 27 | Peristaltic Pumping of Thixotropic Fluids: a Numerical Study. Nihon Reoroji Gakkaishi, 2012, 40, 1-9. | 1.0 | 9 |
| 28 | Simulating Bubble Shape during its Rise in Carreau-Yasuda Fluids Using WC-SPH Method. Nihon Reoroji Gakkaishi, 2014, 41, 319-329. | 1.0 | 9 |
| 29 | On the Use of SPH Method for Simulating Gas Bubbles Rising in Viscoelastic Liquids. Nihon Reoroji Gakkaishi, 2015, 42, 309-319. | 1.0 | 9 |
| 30 | Flow of a Casson fluid through a locally-constricted porous channel: a numerical study. Korea Australia Rheology Journal, 2016, 28, 129-137. | 1.7 | 9 |
| 31 | The effect of thixotropy on a rising gas bubble: A numerical study. Korea Australia Rheology Journal, 2016, 28, 207-216. | 1.7 | 9 |
| 32 | Linear stability of shear-thinning fluids in deformable channels: Effect of inertial terms. Journal of Non-Newtonian Fluid Mechanics, 2016, 230, 80-91. | 2.4 | 9 |
| 33 | Peristaltic transport of solid particles suspended in a viscoplastic fluid: A numerical study. Journal of Non-Newtonian Fluid Mechanics, 2016, 236, 1-17. | 2.4 | 7 |
| 34 | 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. | 2.4 | 7 |
| 35 | On the use of Lattice-Boltzmann method for simulating peristaltic flow of viscoplastic fluids in a closed cavity. Journal of Non-Newtonian Fluid Mechanics, 2017, 243, 1-15. | 2.4 | 7 |
| 36 | Magnetohydrodynamic flow of Bingham fluids in a plane channel: A theoretical study. Journal of Non-Newtonian Fluid Mechanics, 2019, 264, 1-18. | 2.4 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | On the use of viscous micropumps for transporting viscoelastic fluids in channel flows: A numerical study. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021, 291, 104528. | 2.4 | 7 |
| 38 | Dean Instability of Bingham Fluids in Tangential Flow between Two Fixed Concentric Cylinders. <i>Nihon Reoroji Gakkaishi</i> , 2010, 38, 125-132. | 1.0 | 6 |
| 39 | Start-up flows of Dullaert-Mewis viscoplastic-thixoelectric fluids: A two-dimensional analysis. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 214, 1-17. | 2.4 | 6 |
| 40 | Pressure-driven flows of Quemada fluids in a channel lined with a poroelastic layer: A linear stability analysis. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 242, 23-47. | 2.4 | 6 |
| 41 | Hydromagnetic linear instability analysis of Giesekus fluids in plane Poiseuille flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2046-2055. | 3.3 | 5 |
| 42 | Viscous Fingering of Thixotropic Fluids: a Linear Stability Analysis. <i>Nihon Reoroji Gakkaishi</i> , 2015, 43, 31-38. | 1.0 | 5 |
| 43 | Taylor-Couette instability of thixotropic fluids. <i>Meccanica</i> , 2015, 50, 1451-1465. | 2.0 | 5 |
| 44 | On the Use of Magnetic Fields for Controlling the Temperature of Hot Spots on Porous Plaques in Stenosis Arteries. <i>Nihon Reoroji Gakkaishi</i> , 2016, 43, 135-144. | 1.0 | 5 |
| 45 | Creeping flow of Herschel-Bulkley fluids in collapsible channels: A numerical study. <i>Korea Australia Rheology Journal</i> , 2016, 28, 255-265. | 1.7 | 5 |
| 46 | On the use of a fluid's elasticity for deliberate rise of Taylor cells in a rotating micro-filter separator. <i>Physics of Fluids</i> , 2018, 30, . | 4.0 | 5 |
| 47 | On the Use of Lattice-Boltzmann Model for Simulating Lid-Driven Cavity Flows of Strain-hardening Fluids. <i>Nihon Reoroji Gakkaishi</i> , 2011, 38, 201-207. | 1.0 | 4 |
| 48 | Taylor-Couette Instability of Giesekus Fluids: Inertia Effects. <i>Nihon Reoroji Gakkaishi</i> , 2012, 40, 195-204. | 1.0 | 4 |
| 49 | Peristaltic transport of thixotropic fluids: A numerical simulation. <i>Korea Australia Rheology Journal</i> , 2019, 31, 71-79. | 1.7 | 4 |
| 50 | The Rise of Second Harmonics in Forced Oscillation of Gas Bubbles in Thixotropic Fluids. <i>Nihon Reoroji Gakkaishi</i> , 2011, 39, 113-117. | 1.0 | 4 |
| 51 | Lubricating Flow of Thixotropic Fluids in Slipper-Pad Bearing: A Numerical Study. <i>Nihon Reoroji Gakkaishi</i> , 2011, 39, 153-158. | 1.0 | 3 |
| 52 | Taylor-Couette instability of yield-stress fluids at large gaps. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 607-613. | 2.4 | 3 |
| 53 | Dynamics of Encapsulated Gas Bubbles Immersed in Thixotropic Fluids. <i>Nihon Reoroji Gakkaishi</i> , 2012, 40, 11-20. | 1.0 | 3 |
| 54 | Dynamic of Gas Bubbles Surrounded by a Dullaert-Mewis Thixotropic Fluid. <i>Nihon Reoroji Gakkaishi</i> , 2014, 41, 309-318. | 1.0 | 3 |

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|----|--|-----|-----------|
| 55 | Peristaltic Flow of Giesekus Fluids through Curved Channels: an Approximate Solution. Nihon Reoroji Gakkaishi, 2014, 42, 9-17. | 1.0 | 3 |
| 56 | 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. | 2.4 | 3 |
| 57 | 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. | 2.6 | 3 |
| 58 | 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. | 2.4 | 3 |
| 59 | Using Mesh Free Method for Numerical Simulation of Non-Newtonian Fluid Flow Over a Step. Nihon Reoroji Gakkaishi, 2008, 36, 19-27. | 1.0 | 3 |
| 60 | Confined Swirling Flows of Simplified Phan-Thien-Tanner (SPTT) Fluids: a Numerical Study. Nihon Reoroji Gakkaishi, 2009, 37, 149-157. | 1.0 | 3 |
| 61 | On the Role Played by the Extensional Behavior of Giesekus Fluids in Plane Stagnation Flow. Nihon Reoroji Gakkaishi, 2009, 37, 31-38. | 1.0 | 3 |
| 62 | Hydromagnetic Instability of Viscoelastic Fluids in Blasius Flow. Nihon Reoroji Gakkaishi, 2009, 37, 173-180. | 1.0 | 2 |
| 63 | CREEPING FLOW OF VISCOELASTIC FLUIDS THROUGH TAPERED SLIT DIES: AN ANALYTICAL SOLUTION. Chemical Engineering Communications, 2009, 197, 466-480. | 2.6 | 2 |
| 64 | 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. | 3.3 | 2 |
| 65 | On the Validity of Boundary Layer Theory for Simulating von Karman Flows of Bingham Fluids. Nihon Reoroji Gakkaishi, 2014, 42, 161-167. | 1.0 | 2 |
| 66 | Hydroelastic Instability of Viscoplastic Fluids in Plane Channel Flow. Nihon Reoroji Gakkaishi, 2016, 43, 157-164. | 1.0 | 2 |
| 67 | Effect of pillars on the mixing efficiency of a peristaltically-driven Bingham fluid within a closed channel: A LBM simulation. Korea Australia Rheology Journal, 2018, 30, 75-88. | 1.7 | 2 |
| 68 | 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. | 2.4 | 2 |
| 69 | 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. | 1.6 | 2 |
| 70 | MHD Flow of Power-Law Fluids in Locally-Constricted Channels. Nihon Reoroji Gakkaishi, 2009, 37, 181-189. | 1.0 | 2 |
| 71 | On the Role Played by Extensional Viscosity in Peristaltic Transport of Circular Solid Particles Suspended in Oldroyd-B Liquids. Physics of Fluids, 0, , . | 4.0 | 2 |
| 72 | LID-DRIVEN CAVITY SIMULATION BY MESH-FREE METHOD. International Journal of Computational Methods, 2007, 04, 397-415. | 1.3 | 1 |

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|----|---|-----|-----------|
| 73 | Translational motion of spherical gas bubbles in viscoelastic liquids subject to acoustic standing wave fields. Central South University, 2007, 14, 82-89. | 0.5 | 1 |
| 74 | 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. | 2.6 | 1 |
| 75 | Simulating the Flow of a Thixotropic Fluid above a Fixed Plate at Arbitrary Reynolds Numbers. Nihon Reoroji Gakkaishi, 2010, 38, 109-116. | 1.0 | 1 |
| 76 | Collapse of Cavitation Gas Bubbles in Giesekeus Liquids. Nihon Reoroji Gakkaishi, 2011, 39, 55-64. | 1.0 | 1 |
| 77 | Resonance Frequency of Encapsulated Gas Bubbles in Thixotropic Fluids. Nihon Reoroji Gakkaishi, 2014, 42, 1-8. | 1.0 | 1 |
| 78 | On the Use of Inverse Methods to Parameter Estimation in Turbulent Pipe Flows of Drag Reducing Polymers. Nihon Reoroji Gakkaishi, 2008, 36, 241-251. | 1.0 | 1 |
| 79 | Numerical simulation of viscoelastic effects in peristaltic transport of drops. Journal of Non-Newtonian Fluid Mechanics, 2022, 306, 104826. | 2.4 | 1 |
| 80 | Translational Motion of Non-Spherical Cavitation Bubbles Collapsing in a Viscoelastic Fluid near a Rigid Boundary. Nihon Reoroji Gakkaishi, 2013, 41, 53-65. | 1.0 | 0 |
| 81 | Sakiadis Flow of Harris Fluids: a Series-Solution. Nihon Reoroji Gakkaishi, 2014, 42, 245-253. | 1.0 | 0 |
| 82 | Effect of non-affine motion on the centrifugal instability of circular Couette flow. Journal of Non-Newtonian Fluid Mechanics, 2016, 230, 19-30. | 2.4 | 0 |
| 83 | Predicting the excess pressure drop incurred by LPTT fluids in flow through a planar constricted channel. Korea Australia Rheology Journal, 2019, 31, 149-166. | 1.7 | 0 |
| 84 | Hydroelastic instability of viscoelastic fluids in developing flow through a compliant channel. Korea Australia Rheology Journal, 2020, 32, 99-119. | 1.7 | 0 |
| 85 | Corrigendum to "magnetohydrodynamic flow of Bingham fluids in a plane channel: A theoretical study". Journal of Non-Newtonian Fluid Mechanics, 2022, 303, 104790. | 2.4 | 0 |