List of Publications by Year in descending order

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87888 149698 4,072 132 38 56 h-index citations g-index papers 142 142 142 2835 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Viscoelastic simulations using the closed-form Adaptive Length Scale (ALS-C) model. Journal of Non-Newtonian Fluid Mechanics, 2022, 304, 104776.	2.4	3
2	On the similarities of the sPTT and FENE-P models for polymeric fluids. , 2022, 2, 100015.		0
3	On the similarities between the simplified Phan-Thien–Tanner model and the finitely extensible nonlinear elastic dumbbell (Peterlin closure) model in simple and complex flows. Physics of Fluids, 2022, 34, .	4.0	10
4	Control of purely-elastic instabilities in cross-slot geometries. , 2022, 3, 100054.		1
5	10.1063/5.0031712.5., 2021,,.		Ο
6	10.1063/5.0031712.6., 2021,,.		0
7	Energetic motions in turbulent partially filled pipe flow. Physics of Fluids, 2021, 33, .	4.0	11
8	Highlighting the need for high-speed imaging in capillary breakup extensional rheometry. Measurement Science and Technology, 2021, 32, 095301.	2.6	4
9	Stabilization of purely elastic instabilities in cross-slot geometries. Journal of Fluid Mechanics, 2021, 922, .	3.4	7
10	Viscoelastic fluid flow in microporous media. Journal of Non-Newtonian Fluid Mechanics, 2021, 296, 104638.	2.4	7
11	Periodic fluctuations of streamwise vortices in inertia-dominated intersecting flows. Physics of Fluids, 2021, 33, .	4.0	16
12	Comment on "Bejan's flow visualization of buoyancy-driven flow of a hydromagnetic Casson fluid from an isothermal wavy surface―[Phys. Fluids 33 (9), 093113 (2021)]. Physics of Fluids, 2021, 33, 129101.	4.0	4
13	Heat Transfer of Power-Law Fluids in Plane Couette–Poiseuille Flows with Viscous Dissipation. Heat Transfer Engineering, 2020, 41, 1189-1207.	1.9	6
14	Viscoelastic fluid flow simulations in the e-VROCTM geometry. Journal of Non-Newtonian Fluid Mechanics, 2020, 278, 104222.	2.4	15
15	GO CaBER: Capillary breakup and steady-shear experiments on aqueous graphene oxide (GO) suspensions. Journal of Rheology, 2020, 64, 81-93.	2.6	12
16	A viscoelastic two-phase solver using a phase-field approach. Journal of Non-Newtonian Fluid Mechanics, 2020, 284, 104364.	2.4	7
17	Low- and High-Drag Intermittencies in Turbulent Channel Flows. Entropy, 2020, 22, 1126.	2.2	8
18	Controlling the properties of the micellar and gel phase by varying the counterion in functionalised-dipeptide systems. Chemical Communications, 2020, 56, 4094-4097.	4.1	26

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19	Investigating channel flow using wall shear stress signals at transitional Reynolds numbers. International Journal of Heat and Fluid Flow, 2020, 82, 108525.	2.4	7
20	Inertial instabilities in a microfluidic mixing-separating device. Physics of Fluids, 2019, 31, 074101.	4.0	10
21	Minimizing recalibration using a non-linear regression technique for thermal anemometry. Experiments in Fluids, 2019, 60, 1.	2.4	6
22	Control of a purely elastic symmetry-breaking flow instability in cross-slot geometries. Journal of Fluid Mechanics, 2019, 881, 1123-1157.	3.4	20
23	3D printing with 2D colloids: designing rheology protocols to predict â€~printability' of soft-materials. Soft Matter, 2019, 15, 1444-1456.	2.7	129
24	An experimental investigation into spatiotemporal intermittencies in turbulent channel flow close to transition. Experiments in Fluids, 2019, 60, 1.	2.4	9
25	Entry Length Requirements for Two- and Three-Dimensional Laminar Couette–Poiseuille Flows. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	1
26	Three-dimensional viscoelastic instabilities in microchannels. Journal of Fluid Mechanics, 2019, 870, 1-4.	3.4	14
27	Secondary flows of viscoelastic fluids in serpentine microchannels. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	29
28	Turbulent duct flow with polymers. Journal of Fluid Mechanics, 2019, 859, 1057-1083.	3.4	30
29	Evaluating the resilience of superhydrophobic materials using the slip-length concept. Journal of Materials Chemistry A, 2018, 6, 4458-4465.	10.3	17
30	Elastic modifications of an inertial instability in a 3D cross-slot. Journal of Non-Newtonian Fluid Mechanics, 2018, 262, 12-24.	2.4	13
31	Heat Transfer of Bingham Fluids in an Annular Duct with Viscous Dissipation. Heat Transfer Engineering, 2018, 39, 1749-1765.	1.9	4
32	Viscoelastic drops moving on hydrophilic and superhydrophobic surfaces. Journal of Colloid and Interface Science, 2018, 513, 53-61.	9.4	26
33	Secondary flows due to finite aspect ratio in inertialess viscoelastic Taylor–Couette flow. Journal of Fluid Mechanics, 2018, 857, 823-850.	3.4	10
34	Vortex breakdown in swirling pipe flow of fluids with shear-dependent viscosity. Physics of Fluids, 2018, 30, .	4.0	4
35	Partially filled pipes: experiments in laminar and turbulent flow. Journal of Fluid Mechanics, 2018, 848, 467-507.	3.4	19
36	Nonlinear Effects in Multicomponent Supramolecular Hydrogels. Langmuir, 2017, 33, 2387-2395.	3.5	49

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37	Heat transfer enhancement in a cross-slot micro-geometry. International Journal of Thermal Sciences, 2017, 121, 249-265.	4.9	18
38	Turbulent drag reduction by polymer additives in parallel-shear flows. Journal of Fluid Mechanics, 2017, 827, .	3.4	44
39	Opening a Can of Worm(â€like Micelle)s: The Effect of Temperature of Solutions of Functionalized Dipeptides. Angewandte Chemie, 2017, 129, 10603-10606.	2.0	30
40	Inertioelastic Flow Instability at a Stagnation Point. Physical Review X, 2017, 7, .	8.9	25
41	Opening a Can of Worm(â€like Micelle)s: The Effect of Temperature of Solutions of Functionalized Dipeptides. Angewandte Chemie - International Edition, 2017, 56, 10467-10470.	13.8	62
42	Experimental evidence of symmetry-breaking supercritical transition in pipe flow of shear-thinning fluids. Physical Review Fluids, 2017, 2, .	2.5	12
43	Low-drag events in transitional wall-bounded turbulence. Physical Review Fluids, 2017, 2, .	2.5	24
44	Bundling of elastic filaments induced by hydrodynamic interactions. Physical Review Fluids, 2017, 2, .	2.5	37
45	Sliding viscoelastic drops on slippery surfaces. Applied Physics Letters, 2016, 108, .	3.3	10
46	Experiments on low-Reynolds-number turbulent flow through a square duct. Journal of Fluid Mechanics, 2016, 798, 398-410.	3.4	21
47	Lid-driven cavity flow of viscoelastic liquids. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 129-138.	2.4	42
48	The stabilizing effect of shear thinning on the onset of purely elastic instabilities in serpentine microflows. Soft Matter, 2016, 12, 6167-6175.	2.7	46
49	Tricritical spiral vortex instability in cross-slot flow. Physical Review E, 2016, 93, 031101.	2.1	42
50	Influence of channel aspect ratio on the onset of purely-elastic flow instabilities in three-dimensional planar cross-slots. Journal of Non-Newtonian Fluid Mechanics, 2016, 227, 65-79.	2.4	26
51	Type IIIb Endoleak and Relining. Journal of Endovascular Therapy, 2016, 23, 297-301.	1.5	13
52	Numerical investigation of steady-state laminar natural convection of power-law fluids in square cross-sectioned cylindrical annular cavity with differentially-heated vertical walls. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 85-107.	2.8	7
53	Experimental investigation of the impact of elastic turbulence on heat transfer in a serpentine channel. Journal of Non-Newtonian Fluid Mechanics, 2016, 231, 68-78.	2.4	63
54	The influence of blade pitch angle on the performance of a model horizontal axis tidal stream turbine operating under wave–current interaction. Energy, 2016, 102, 166-175.	8.8	29

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55	Elastic instabilities in parallel shear flows of a viscoelastic shear-thinning liquid. Physical Review Fluids, 2016, 1, .	2.5	16
56	Numerical and experimental investigation of heat transfer and fluid flow characteristics in a micro-scale serpentine channel. International Journal of Heat and Mass Transfer, 2015, 88, 790-802.	4.8	66
57	Laminar Natural Convection of Bingham Fluids in Inclined Differentially Heated Square Enclosures Subjected to Uniform Wall Temperatures. Journal of Heat Transfer, 2015, 137, .	2.1	9
58	Enhancing heat transfer at the micro-scale using elastic turbulence. Theoretical and Applied Mechanics Letters, 2015, 5, 103-106.	2.8	37
59	Development of emulsification resistant heavier-than-water tamponades using high molecular weight silicone oil polymers. Journal of Biomaterials Applications, 2015, 30, 212-220.	2.4	11
60	Effects of aspect ratio on laminar Rayleigh–Bénard convection of power-law fluids in rectangular enclosures: A numerical investigation. International Journal of Heat and Mass Transfer, 2015, 91, 1292-1307.	4.8	32
61	Effects of aspect ratio on natural convection of Bingham fluids in rectangular enclosures with differentially heated horizontal walls heated from below. International Journal of Heat and Mass Transfer, 2015, 80, 727-736.	4.8	32
62	NUMERICAL INVESTIGATION OF BOUNDARY CONDITION EFFECTS ON LAMINAR NATURAL CONVECTION OF POWER LAW FLUIDS IN SQUARE CROSS-SECTIONAL CYLINDRICAL ANNULAR SPACE WITH DIFFERENTIALLY HEATED VERTICAL WALLS. Computational Thermal Sciences, 2015, 7, 261-282.	0.9	4
63	Influences of Boundary Conditions on Laminar Natural Convection of Bingham Fluids in Rectangular Enclosures With Differentially Heated Side Walls. Heat Transfer Engineering, 2014, 35, 822-849.	1.9	16
64	Controlling vortex breakdown in swirling pipe flows: Experiments and simulations. Physics of Fluids, 2014, 26, 053602.	4.0	24
65	Computational fluid dynamic analysis of the effect of morphologic features on distraction forces in fenestrated stent grafts. Journal of Vascular Surgery, 2014, 60, 1648-1656.e1.	1.1	8
66	Symmetry-breaking Bifurcations in T-channel Flows: Effects of Fluid Viscoelasticity. Procedia Engineering, 2014, 79, 28-34.	1.2	6
67	A new viscoelastic benchmark flow: Stationary bifurcation in a cross-slot. Journal of Non-Newtonian Fluid Mechanics, 2014, 214, 57-68.	2.4	32
68	A symmetry-breaking inertial bifurcation in a cross-slot flow. Computers and Fluids, 2014, 93, 91-99.	2.5	8
69	The effects of wave–current interaction on the performance of a model horizontal axis tidal turbine. International Journal of Marine Energy, 2014, 8, 17-35.	1.8	53
70	Serpentine channels: micro-rheometers for fluid relaxation times. Lab on A Chip, 2014, 14, 351-358.	6.0	67
71	Boundary Condition Effects on Laminar Natural Convection of Power-Law Fluids in a Square Enclosure Heated from below with Differentially Heated Horizontal Walls. Industrial & Engineering Chemistry Research, 2014, 53, 456-473.	3.7	17
72	Closure technique after carotid endarterectomy influences local hemodynamics. Journal of Vascular Surgery, 2014, 60, 418-427.	1.1	47

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73	Near-wake characteristics of a model horizontal axis tidal stream turbine. Renewable Energy, 2014, 63, 222-235.	8.9	98
74	10.1063/1.4875486.1., 2014, , .		0
75	Numerical Predictions of Momentum and Heat Transfer Characteristics from a Heated Sphere in Yield-Stress Fluids. Industrial & Engineering Chemistry Research, 2013, 52, 6848-6861.	3.7	42
76	Laminar forced convection heat transfer from a heated square cylinder in a Bingham plastic fluid. International Journal of Heat and Mass Transfer, 2013, 56, 625-639.	4.8	41
77	Laminar natural convection of power-law fluids in a square enclosure submitted from below to a uniform heat flux density. Journal of Non-Newtonian Fluid Mechanics, 2013, 199, 80-95.	2.4	32
78	Aspect ratio and boundary conditions effects on laminar natural convection of power-law fluids in a rectangular enclosure with differentially heated side walls. International Journal of Heat and Mass Transfer, 2013, 60, 722-738.	4.8	33
79	Viscoelastic secondary flows in serpentine channels. Journal of Non-Newtonian Fluid Mechanics, 2013, 201, 10-16.	2.4	44
80	Bifurcation in a T-channel junction: Effects of aspect ratio and shear-thinning. Chemical Engineering Science, 2013, 104, 839-848.	3.8	51
81	Effect of Shear-Thinning Behavior on Heat Transfer from a Heated Sphere in Yield-Stress Fluids. Industrial & Engineering Chemistry Research, 2013, 52, 13490-13504.	3.7	41
82	The concept of aortic replacement based on computational fluid dynamic analysis: patient-directed aortic replacementâ€. Interactive Cardiovascular and Thoracic Surgery, 2013, 16, 583-588.	1.1	9
83	Laminar Natural Convection of Power-Law Fluids in a Square Enclosure With Differentially Heated Sidewalls Subjected to Constant Wall Heat Flux. Journal of Heat Transfer, 2012, 134, .	2.1	30
84	Geometric scaling of a purely elastic flow instability in serpentine channels. Journal of Fluid Mechanics, 2012, 712, 203-218.	3.4	75
85	Non-dimensional scaling of tidal stream turbines. Energy, 2012, 44, 820-829.	8.8	82
86	Influences of boundary conditions on laminar natural convection in rectangular enclosures with differentially heated side walls. International Journal of Heat and Fluid Flow, 2012, 33, 131-146.	2.4	51
87	On creeping flow of a Bingham plastic fluid past a square cylinder. Journal of Non-Newtonian Fluid Mechanics, 2012, 171-172, 17-30.	2.4	41
88	Laminar Rayleigh-Bénard convection of yield stress fluids in a square enclosure. Journal of Non-Newtonian Fluid Mechanics, 2012, 171-172, 83-96.	2.4	79
89	Emulsification using elastic turbulence. Journal of Non-Newtonian Fluid Mechanics, 2012, 177-178, 15-18.	2.4	21
90	BOUNDARY CONDITION EFFECTS ON NATURAL CONVECTION OF BINGHAM FLUIDS IN A SQUARE ENCLOSURE WITH DIFFERENTIALLY HEATED HORIZONTAL WALLS. Computational Thermal Sciences, 2012, 4, 77-97.	0.9	17

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91	Laminar Natural Convection of Bingham Fluids in a Square Enclosure with Vertical Walls Subjected to Constant Heat Flux. Numerical Heat Transfer; Part A: Applications, 2011, 60, 381-409.	2.1	28
92	Viscoelastic flows in mixing-separating cells. Journal of Engineering Mathematics, 2011, 71, 3-13.	1.2	12
93	Laminar natural convection of power-law fluids in a square enclosure with differentially heated side walls subjected to constant temperatures. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1049-1063.	2.4	169
94	Aspect ratio effects in laminar natural convection of Bingham fluids in rectangular enclosures with differentially heated side walls. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 208-230.	2.4	67
95	Drag Reduction of Biopolymer Flows. Journal of Applied Sciences, 2011, 11, 1544-1551.	0.3	4
96	Development-Length Requirements for Fully Developed Laminar Flow in Concentric Annuli. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	15
97	Laminar natural convection of Bingham fluids in a square enclosure with differentially heated side walls. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 901-913.	2.4	158
98	Laminar, transitional and turbulent annular flow of drag-reducing polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1357-1372.	2.4	50
99	Development Length Requirements for Fully Developed Laminar Pipe Flow of Yield Stress Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	35
100	Mathematical Modeling in Cardiac Surgery: Helping Clinical Trials Answer the Question. Seminars in Cardiothoracic and Vascular Anesthesia, 2009, 13, 81-86.	1.0	3
101	On extensibility effects in the cross-slot flow bifurcation. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 58-69.	2.4	63
102	Turbulent flow of viscoelastic shear-thinning liquids through a rectangular duct: Quantification of turbulence anisotropy. Journal of Non-Newtonian Fluid Mechanics, 2009, 160, 2-10.	2.4	61
103	Purely elastic flow asymmetries in flow-focusing devices. Journal of Non-Newtonian Fluid Mechanics, 2009, 160, 31-39.	2.4	41
104	Velocity overshoots in gradual contraction flows. Journal of Non-Newtonian Fluid Mechanics, 2009, 160, 47-54.	2.4	11
105	Asymmetry in transitional pipe flow of drag-reducing polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 2009, 161, 19-29.	2.4	20
106	Turbulent pipe flow of a drag-reducing rigid "rod-like―polymer solution. Journal of Non-Newtonian Fluid Mechanics, 2009, 161, 86-93.	2.4	49
107	The effect of expansion ratio for creeping expansion flows of UCM fluids. Journal of Non-Newtonian Fluid Mechanics, 2009, 163, 35-44.	2.4	24
108	Ascending aortic curvature as an independent risk factor for type A dissection, and ascending aortic aneurysm formation: a mathematical modelâ~†. European Journal of Cardio-thoracic Surgery, 2008, 33, 995-1001.	1.4	93

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109	A Novel Microfluidic Mixing Element for Viscoelastic Fluids. AIP Conference Proceedings, 2008, , .	0.4	1
110	On Extensibility Effects in the Cross-slot Flow Bifurcation. AIP Conference Proceedings, 2008, , .	0.4	0
111	Viscoelastic Fluid Flow Through Gradual Contractions: Experiments And Simulations. AIP Conference Proceedings, 2008, , .	0.4	0
112	Turbulent Pipe Flow of "Rod-Like―Polymer Solutions. AIP Conference Proceedings, 2008, , .	0.4	0
113	Laminar flow of a viscoelastic shear-thinning liquid over a backward-facing step preceded by a gradual contraction. Physics of Fluids, 2007, 19, .	4.0	19
114	Development-Length Requirements for Fully Developed Laminar Pipe Flow of Inelastic Non-Newtonian Liquids. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1281-1287.	1.5	83
115	Purely Elastic Flow Asymmetries. Physical Review Letters, 2007, 99, 164503.	7.8	173
116	Flow produced in a conical container by a rotating endwall. International Journal of Heat and Fluid Flow, 2007, 28, 1418-1428.	2.4	30
117	Bifurcation phenomena in viscoelastic flows through a symmetric 1:4 expansion. Journal of Non-Newtonian Fluid Mechanics, 2007, 141, 1-17.	2.4	38
118	Plane sudden expansion flows of viscoelastic liquids. Journal of Non-Newtonian Fluid Mechanics, 2007, 146, 79-91.	2.4	40
119	Divergent flow in contractions. Journal of Non-Newtonian Fluid Mechanics, 2007, 144, 140-148.	2.4	54
120	Influence of outlet geometry on strongly swirling turbulent flow through a circular tube. Physics of Fluids, 2006, 18, 125103.	4.0	31
121	Asymmetry in the turbulent flow of a viscoelastic liquid through an axisymmetric sudden expansion. Journal of Non-Newtonian Fluid Mechanics, 2005, 125, 61-70.	2.4	6
122	Observations of asymmetrical flow behaviour in transitional pipe flow of yield-stress and other shear-thinning liquids. Journal of Non-Newtonian Fluid Mechanics, 2005, 127, 143-155.	2.4	69
123	Freezing as a Storage Process for Aqueous Polymer Solutions. Applied Rheology, 2005, 15, 90-97.	5.2	9
124	Laminar flow of a viscoelastic shear-thinning liquid through a plane sudden expansion preceded by a gradual contraction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 3827-3845.	2.1	19
125	Asymmetrical Flow Behaviour in Transitional Pipe Flow of Non-Newtonian Liquids. , 2005, , .		0
126	Turbulent flow of viscoelastic liquids through an axisymmetric sudden expansion. Journal of Non-Newtonian Fluid Mechanics, 2004, 117, 25-46.	2.4	41

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127	Turbulent flow of non-Newtonian liquids over a backward-facing step. Journal of Non-Newtonian Fluid Mechanics, 2003, 109, 193-230.	2.4	30
128	Turbulent flow of non-Newtonian liquids over a backward-facing step. Journal of Non-Newtonian Fluid Mechanics, 2003, 109, 177-191.	2.4	12
129	Turbulent flow of a viscoelastic shear-thinning liquid through a plane sudden expansion of modest aspect ratio. Journal of Non-Newtonian Fluid Mechanics, 2003, 112, 1-26.	2.4	15
130	Turbulent flow through a plane sudden expansion of modest aspect ratio. Physics of Fluids, 2002, 14, 3641-3654.	4.0	34
131	On the reproducibility of the rheology of shear-thinning liquids. Journal of Non-Newtonian Fluid Mechanics, 2001, 97, 99-124.	2.4	103
132	Heat Transfer in Laminar Flow of a Herschel-Bulkley Fluid between Parallel Plates. Heat Transfer Engineering, 0, , 1-22.	1.9	1