Fernando Pinho

List of Publications by Citations

169 papers	5,380 citations	42 h-index	64 g-index
182 ext. papers	5,979 ext. citations	3.2 avg, IF	5.93 L-index

#	Paper	IF	Citations
169	A convergent and universally bounded interpolation scheme for the treatment of advection. *International Journal for Numerical Methods in Fluids*, **2003**, 41, 47-75	1.9	237
168	Benchmark solutions for the flow of Oldroyd-B and PTT fluids in planar contractions. *Journal of Non-Newtonian Fluid Mechanics*, **2003**, 110, 45-75	2.7	181
167	Analytical solution of mixed electro-osmotic/pressure driven flows of viscoelastic fluids in microchannels. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 159, 50-63	2.7	167
166	Numerical simulation of non-linear elastic flows with a general collocated finite-volume method. *Journal of Non-Newtonian Fluid Mechanics*, **1998**, 79, 1-43	2.7	164
165	Analytical solution for fully developed channel and pipe flow of Phan-Thien□Tanner fluids. *Journal of Fluid Mechanics*, **1999**, 387, 271-280	3.7	145
164	The flow of viscoelastic fluids past a cylinder: finite-volume high-resolution methods. *Journal of Non-Newtonian Fluid Mechanics*, **2001**, 97, 207-232	2.7	133
163	Fully developed laminar flow of purely viscous non-Newtonian liquids through annuli, including the effects of eccentricity and inner-cylinder rotation. *International Journal of Heat and Fluid Flow*, **2002**, 23, 52-73	2.4	127
162	Flow of non-newtonian fluids in a pipe. *Journal of Non-Newtonian Fluid Mechanics*, **1990**, 34, 129-144	2.7	123
161	Viscous flow through microfabricated hyperbolic contractions. *Experiments in Fluids*, **2007**, 43, 437-451	2.5	92
160	Viscoelasticity of blood and viscoelastic blood analogues for use in polydymethylsiloxane in vitro models of the circulatory system. *Biomicrofluidics*, **2013**, 7, 34102	3.2	85
159	Extensional flow of blood analog solutions in microfluidic devices. *Biomicrofluidics*, **2011**, 5, 14108	3.2	84
158	On the reproducibility of the rheology of shear-thinning liquids. *Journal of Non-Newtonian Fluid Mechanics*, **2001**, 97, 99-124	2.7	84
157	Analysis of forced convection in pipes and channels with the simplified Phan-Thien□Tanner fluid. *International Journal of Heat and Mass Transfer*, **2000**, 43, 2273-2287	4.9	82
156	Steady viscoelastic fluid flow between parallel plates under electro-osmotic forces: Phan-Thien-Tanner model. *Journal of Colloid and Interface Science*, **2010**, 344, 513-20	9.3	81
155	Study of steady pipe and channel flows of a single-mode Phan-Thien□Tanner fluid. *Journal of Non-Newtonian Fluid Mechanics*, **2001**, 101, 55-76	2.7	75
154	The log-conformation tensor approach in the finite-volume method framework. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 157, 55-65	2.7	72
153	Effect of a high-resolution differencing scheme on finite-volume predictions of viscoelastic flows. *Journal of Non-Newtonian Fluid Mechanics*, **2000**, 93, 287-314	2.7	71

152	Analytical solutions for fully developed laminar flow of some viscoelastic liquids with a Newtonian solvent contribution. *Journal of Non-Newtonian Fluid Mechanics*, **2005**, 132, 28-35	2.7	69
151	Analytical solutions for Newtonian and inelastic non-Newtonian flows with wall slip. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 175-176, 76-88	2.7	65
150	Electro-osmotic flow of viscoelastic fluids in microchannels under asymmetric zeta potentials. *Journal of Engineering Mathematics*, **2011**, 71, 15-30	1.2	64
149	Vortex shedding in cylinder flow of shear-thinning fluids: I. Identification and demarcation of flow regimes. *Journal of Non-Newtonian Fluid Mechanics*, **2003**, 110, 143-176	2.7	62
148	Vortex shedding in cylinder flow of shear-thinning fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2003**, 110, 177-193	2.7	60
147	Dynamics of high-Deborah-number entry flows: a numerical study. *Journal of Fluid Mechanics*, **2011**, 677, 272-304	3.7	58
146	Efficient microfluidic rectifiers for viscoelastic fluid flow. *Journal of Non-Newtonian Fluid Mechanics*, **2010**, 165, 652-671	2.7	58
145	Effects of inner cylinder rotation on laminar flow of a Newtonian fluid through an eccentric annulus. *International Journal of Heat and Fluid Flow*, **2000**, 21, 92-103	2.4	58
144	Microfluidic systems for the analysis of viscoelastic fluid flow phenomena in porous media. *Microfluidics and Nanofluidics*, **2012**, 12, 485-498	2.8	56
143	Flow of low viscosity Boger fluids through a microfluidic hyperbolic contraction. *Journal of Non-Newtonian Fluid Mechanics*, **2011**, 166, 1286-1296	2.7	56
142	Axial annular flow of a nonlinear viscoelastic fluid an analytical solution. *Journal of Non-Newtonian Fluid Mechanics*, **2000**, 93, 325-337	2.7	56
141	On the effect of contraction ratio in viscoelastic flow through abrupt contractions. *Journal of Non-Newtonian Fluid Mechanics*, **2004**, 122, 117-130	2.7	53
140	Turbulent pipe flow predictions with a low Reynolds number k model for drag reducing fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2003**, 114, 109-148	2.7	52
139	Analytical solutions for channel flows of Phan-Thien anner and Giesekus fluids under slip. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 171-172, 97-105	2.7	49
138	Thermal entry flow for a viscoelastic fluid: the Graetz problem for the PTT model. *International Journal of Heat and Mass Transfer*, **2003**, 46, 3865-3880	4.9	49
137	Effect of the skimming layer on electro-osmotic oiseuille flows of viscoelastic fluids. *Microfluidics and Nanofluidics*, **2011**, 10, 107-122	2.8	46
136	Fully developed forced convection of the Phan-Thien anner fluid in ducts with a constant wall temperature. *International Journal of Heat and Mass Transfer*, **2002**, 45, 1413-1423	4.9	45
135	A GNF framework for turbulent flow models of drag reducing fluids and proposal for a k type closure. *Journal of Non-Newtonian Fluid Mechanics*, **2003**, 114, 149-184	2.7	45

134	Viscoelastic instabilities in micro-scale flows. *Experimental Thermal and Fluid Science*, **2014**, 59, 128-139	3	44
133	Shear viscosity and nonlinear behavior of whole blood under large amplitude oscillatory shear. *Biorheology*, **2013**, 50, 269-82	1.7	44
132	Effect of contraction ratio upon viscoelastic flow in contractions: The axisymmetric case. *Journal of Non-Newtonian Fluid Mechanics*, **2007**, 147, 92-108	2.7	44
131	Pressure losses in the laminar flow of shear-thinning power-law fluids across a sudden axisymmetric expansion. *International Journal of Heat and Fluid Flow*, **2003**, 24, 747-761	2.4	44
130	Edge Effects on the Flow Characteristics in a 90deg Tee Junction. *Journal of Fluids Engineering, Transactions of the ASME*, **2006**, 128, 1204-1217	2.1	43
129	Plane contraction flows of upper convected Maxwell and Phan-Thien□Tanner fluids as predicted by a finite-volume method. *Journal of Non-Newtonian Fluid Mechanics*, **1999**, 88, 63-88	2.7	43
128	Electro-osmotic and pressure-driven flow of viscoelastic fluids in microchannels: Analytical and semi-analytical solutions. *Physics of Fluids*, **2016**, 28, 093102	4.4	42
127	Accounting for temperature-dependent properties in viscoelastic duct flows. *International Journal of Heat and Mass Transfer*, **2004**, 47, 1141-1158	4.9	41
126	Numerical Methods for Viscoelastic Fluid Flows. *Annual Review of Fluid Mechanics*, **2021**, 53, 509-541	22	39
125	Purely elastic flow asymmetries in flow-focusing devices. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 160, 31-39	2.7	38
124	Purely elastic flow instabilities in microscale cross-slot devices. *Soft Matter*, **2015**, 11, 8856-62	3.6	37
123	A review of hemorheology: Measuring techniques and recent advances **2016**, 28, 1-22		37
122	Steady and unsteady laminar flows of Newtonian and generalized Newtonian fluids in a planar T-junction. *International Journal for Numerical Methods in Fluids*, **2008**, 57, 295-328	1.9	37
121	A low Reynolds number turbulence closure for viscoelastic fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2008**, 154, 89-108	2.7	37
120	Fully-developed heat transfer in annuli with viscous dissipation. *International Journal of Heat and Mass Transfer*, **2006**, 49, 3349-3359	4.9	37
119	Fully-developed heat transfer in annuli for viscoelastic fluids with viscous dissipation. *Journal of Non-Newtonian Fluid Mechanics*, **2006**, 138, 7-21	2.7	37
118	Computer aided rheological design of extrusion dies for profiles. *Journal of Materials Processing Technology*, **2001**, 114, 75-86	5.3	37
117	Purely-elastic flow instabilities and elastic turbulence in microfluidic cross-slot devices. *Soft Matter*, **2018**, 14, 1344-1354	3.6	36

116	Analytical and numerical study of the electro-osmotic annular flow of viscoelastic fluids. *Journal of Colloid and Interface Science*, **2014**, 420, 152-7	9.3	36
115	Analytical solution of two-fluid electro-osmotic flows of viscoelastic fluids. *Journal of Colloid and Interface Science*, **2013**, 395, 277-86	9.3	36
114	Pressure drop coefficient of laminar Newtonian flow in axisymmetric sudden expansions. *International Journal of Heat and Fluid Flow*, **1997**, 18, 518-529	2.4	36
113	Visualizations of Boger fluid flows in a 4:1 square□square contraction. *AICHE Journal*, **2005**, 51, 2908-2922	3.6	36
112	A FENE-P k□turbulence model for low and intermediate regimes of polymer-induced drag reduction. *Journal of Non-Newtonian Fluid Mechanics*, **2011**, 166, 639-660	2.7	34
111	Plane sudden expansion flows of viscoelastic liquids. *Journal of Non-Newtonian Fluid Mechanics*, **2007**, 146, 79-91	2.7	34
110	The Graetz problem with viscous dissipation for FENE-P fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2004**, 121, 69-72	2.7	34
109	The effect of viscoelasticity on the turbulent kinetic energy cascade. *Journal of Fluid Mechanics*, **2014**, 760, 39-62	3.7	33
108	Modelling the new stress for improved drag reduction predictions of viscoelastic pipe flow. *Journal of Non-Newtonian Fluid Mechanics*, **2004**, 121, 127-141	2.7	31
107	particulate analogue fluids for experimental studies of rheological and hemorheological behavior of glucose-rich RBC suspensions. *Biomicrofluidics*, **2017**, 11, 054105	3.2	30
106	A viscoelastic k-□v2□-f turbulent flow model valid up to the maximum drag reduction limit. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 202, 99-111	2.7	28
105	A Review of Computational Hemodynamics in Middle Cerebral Aneurysms and Rheological Models for Blood Flow. *Applied Mechanics Reviews*, **2015**, 67,	8.6	28
104	Pressure-driven electrokinetic slip flows of viscoelastic fluids in hydrophobic microchannels. *Microfluidics and Nanofluidics*, **2014**, 16, 1131-1142	2.8	28
103	Adaptive multiresolution approach for solution of hyperbolic PDEs. *Computer Methods in Applied Mechanics and Engineering*, **2002**, 191, 3909-3928	5.7	28
102	Lid-driven cavity flow of viscoelastic liquids. *Journal of Non-Newtonian Fluid Mechanics*, **2016**, 234, 129-138	2.7	28
101	A new viscoelastic benchmark flow: Stationary bifurcation in a cross-slot. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 214, 57-68	2.7	27
100	Electro-osmosis of viscoelastic fluids and prediction of electro-elastic flow instabilities in a cross slot using a finite-volume method. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 179-180, 55-68	2.7	27
99	Purely elastic instabilities in three-dimensional cross-slot geometries. *Journal of Non-Newtonian Fluid Mechanics*, **2010**, 165, 743-751	2.7	27

98	Viscoelastic fluid flow past a confined cylinder: Three-dimensional effects and stability. *Chemical Engineering Science*, **2014**, 111, 364-380	4.4	26
97	Flow Balancing in Extrusion Dies for Thermoplastic Profiles. *International Polymer Processing*, **2003**, 18, 298-306	1	25
96	Skewed Poiseuille-Couette flows of sPTT fluids in concentric annuli and channels. *Journal of Non-Newtonian Fluid Mechanics*, **2004**, 121, 1-14	2.7	25
95	Application of the log-conformation tensor to three-dimensional time-dependent free surface flows. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 175-176, 44-54	2.7	24
94	Flow Balancing in Extrusion Dies for Thermoplastic Profiles. *International Polymer Processing*, **2004**, 19, 225-235	1	24
93	Turbulent pipe flow characteristics of low molecular weight polymer solutions. *Journal of Non-Newtonian Fluid Mechanics*, **1994**, 55, 321-344	2.7	24
92	Steady flow of power-law fluids in a 1:3 planar sudden expansion. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 198, 48-58	2.7	23
91	A generalized Brinkman number for non-Newtonian duct flows. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 156, 202-206	2.7	23
90	Numerical solution of the PTT constitutive equation for unsteady three-dimensional free surface flows. *Journal of Non-Newtonian Fluid Mechanics*, **2010**, 165, 247-262	2.7	22
89	A general correlation for the local loss coefficient in Newtonian axisymmetric sudden expansions. *International Journal of Heat and Fluid Flow*, **1998**, 19, 655-660	2.4	22
88	Near wall characterization of the flow over a two-dimensional steep smooth hill. *Experiments in Fluids*, **2007**, 42, 441-457	2.5	22
87	Numerical predictions and measurements of Reynolds normal stresses in turbulent pipe flow of polymers. *International Journal of Heat and Fluid Flow*, **2006**, 27, 204-219	2.4	22
86	Three-dimensional effects in laminar flow past a confined cylinder. *Chemical Engineering Science*, **2012**, 84, 155-169	4.4	21
85	Viscoelastic flow in a 3D square/square contraction: Visualizations and simulations. *Journal of Rheology*, **2008**, 52, 1347-1368	4.1	21
84	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	2.7	20
83	Fully-developed pipe and planar flows of multimode viscoelastic fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2007**, 141, 85-98	2.7	20
82	Numerical simulation of viscoelastic flows using integral constitutive equations: A finite difference approach. *Journal of Computational Physics*, **2008**, 227, 4207-4243	4.1	20
81	Design of calibrators for extruded profiles. Part I: Modeling the thermal interchanges. *Polymer Engineering and Science*, **2004**, 44, 2216-2228	2.3	20

80	Nanogel formation of polymer solutions flowing through porous media. *Soft Matter*, **2012**, 8, 6445	3.6	19
79	The effect of expansion ratio for creeping expansion flows of UCM fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 163, 35-44	2.7	19
78	Pressure drop coefficient of laminar Newtonian flow in axisymmetric diffusers. *International Journal of Heat and Fluid Flow*, **2006**, 27, 319-328	2.4	19
77	Turbulent pipe flow of thixotropic fluids. *International Journal of Heat and Fluid Flow*, **2002**, 23, 36-51	2.4	19
76	Pressure drop coefficient of laminar Newtonian flow in axisymmetric sudden expansions **1997**, 18, 518-518		18
75	Divergent streamlines and free vortices in Newtonian fluid flows in microfluidic flow-focusing devices. *Journal of Fluid Mechanics*, **2012**, 711, 171-191	3.7	17
74	Energy spectra in elasto-inertial turbulence. *Physics of Fluids*, **2016**, 28, 075108	4.4	17
73	A numerical and theoretical study on viscoelastic fluid slip flows. *Physics of Fluids*, **2017**, 29, 053102	4.4	16
72	Development of a Low-Reynolds-number k-□Model for FENE-P Fluids. *Flow, Turbulence and Combustion*, **2013**, 90, 69-94	2.5	16
71	Extensional rheometry of magnetic dispersions. *Journal of Rheology*, **2015**, 59, 193-209	4.1	15
70	Newtonian and viscoelastic fluid flows through an abrupt 1:4 expansion with slip boundary conditions. *Physics of Fluids*, **2020**, 32, 043103	4.4	15
69	A finite difference technique for solving a time strain separable K-BKZ constitutive equation for two-dimensional moving free surface flows. *Journal of Computational Physics*, **2016**, 311, 114-141	4.1	15
68	Water tank and numerical model studies of flow over steep smooth two-dimensional hills. *Boundary-Layer Meteorology*, **2007**, 122, 343-365	3.4	15
67	Electro-osmotic oscillatory flow of viscoelastic fluids in a microchannel. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 266, 46-58	2.7	14
66	Rheological behavior of human blood in uniaxial extensional flow. *Journal of Rheology*, **2018**, 62, 447-456	4.1	14
65	Parametric study on the three-dimensional distribution of velocity of a FENE-CR fluid flow through a curved channel. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 200, 88-102	2.7	14
64	The effect of roughness on separating flow over two-dimensional hills. *Experiments in Fluids*, **2009**, 46, 577-596	2.5	14
63	Laminar flow of a viscoelastic shear-thinning liquid over a backward-facing step preceded by a gradual contraction. *Physics of Fluids*, **2007**, 19, 093101	4.4	14

62	Flow Balancing in Extrusion Dies for Thermoplastic Profiles. *International Polymer Processing*, **2003**, 18, 307-312	1	14
61	Turbulent expansion flow of low molecular weight shear-thinning solutions. *Experiments in Fluids*, **1995**, 20, 42-55	2.5	14
60	Measurement of electroosmotic and electrophoretic velocities using pulsed and sinusoidal electric fields. *Electrophoresis*, **2017**, 38, 1022-1037	3.6	13
59	Annular flow of viscoelastic fluids: Analytical and numerical solutions. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 212, 80-91	2.7	13
58	High performance microfluidic rectifiers for viscoelastic fluid flow. *RSC Advances*, **2012**, 2, 920-929	3.7	13
57	Uniform flow of viscoelastic fluids past a confined falling cylinder. *Rheologica Acta*, **2008**, 47, 325-348	2.3	13
56	Analysis of isothermal flow of a Phan-Thien□Tanner fluid in a simplified model of a single-screw extruder. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 167-168, 95-105	2.7	12
55	One Equation Model for Turbulent Channel Flow with Second Order Viscoelastic Corrections. *Flow, Turbulence and Combustion*, **2008**, 81, 337-367	2.5	12
54	Turbulent characteristics of shear-thinning fluids in recirculating flows. *Experiments in Fluids*, **2000**, 28, 266-278	2.5	12
53	A Reynolds stress model for turbulent flow of homogeneous polymer solutions. *International Journal of Heat and Fluid Flow*, **2015**, 54, 220-235	2.4	11
52	Numerical solution of the FENE-CR model in complex flows. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 204, 50-61	2.7	11
51	Slip flows of Newtonian and viscoelastic fluids in a 4:1 contraction. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 214, 28-37	2.7	11
50	Forced convection in electro-osmotic/Poiseuille micro-channel flows of viscoelastic fluids: fully developed flow with imposed wall heat flux. *Microfluidics and Nanofluidics*, **2012**, 12, 431-449	2.8	11
49	Implementation of slip boundary conditions in the finite volume method: new techniques. *International Journal for Numerical Methods in Fluids*, **2013**, 72, 724-747	1.9	11
48	A Reynolds stress model for turbulent flows of viscoelastic fluids. *Journal of Turbulence*, **2013**, 14, 1-36	2.1	11
47	Water-Tank Studies of Separating Flow Over Rough Hills. *Boundary-Layer Meteorology*, **2008**, 129, 289-308	3.4	11
46	A RANS model for heat transfer reduction in viscoelastic turbulent flow. *International Journal of Heat and Mass Transfer*, **2016**, 100, 332-346	4.9	11
45	Instabilities in micro-contraction flows of semi-dilute CTAB and CPyCl solutions: rheology and flow instabilities. *Experiments in Fluids*, **2019**, 60, 1	2.5	10

44	Laminar non-Newtonian impinging jet flow confined by sloping plane walls. *Journal of Non-Newtonian Fluid Mechanics*, **2012**, 169-170, 1-14	2.7	10
43	Analytical solution of steady 2D wall-free extensional flows of UCM fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 223, 157-164	2.7	9
42	Viscoelastic flows in mixing-separating cells. *Journal of Engineering Mathematics*, **2011**, 71, 3-13	1.2	9
41	Development Length in Planar Channel Flows of Newtonian Fluids Under the Influence of Wall Slip. *Journal of Fluids Engineering, Transactions of the ASME*, **2012**, 134,	2.1	9
40	Numerical investigation of the velocity overshoots in the flow of viscoelastic fluids inside a smooth contraction. *Journal of Non-Newtonian Fluid Mechanics*, **2006**, 139, 1-20	2.7	9
39	Flow of non-Newtonian fluids over a confined baffle. *Journal of Fluid Mechanics*, **1991**, 226, 475-496	3.7	9
38	Microfluidic Flows of Viscoelastic Fluids **2011**, 131-174		8
37	Power and mean flow characteristics in mixing vessels agitated by hyperboloid stirrers. *Canadian Journal of Chemical Engineering*, **1997**, 75, 832-842	2.3	8
36	A qualitative assessment of the role of a viscosity depending on the third invariant of the rate-of-deformation tensor upon turbulent non-Newtonian flow. *Journal of Non-Newtonian Fluid Mechanics*, **1998**, 78, 1-25	2.7	8
35	Large-eddy simulations of forced isotropic turbulence with viscoelastic fluids described by the FENE-P model. *Physics of Fluids*, **2016**, 28, 125104	4.4	8
34	Direct numerical simulations of turbulent viscoelastic jets. *Journal of Fluid Mechanics*, **2020**, 899,	3.7	7
33	Local similarity solution for steady laminar planar jet flow of viscoelastic FENE-P fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2020**, 279, 104265	2.7	6
32	Electro-elastic flow instabilities of viscoelastic fluids in contraction/expansion micro-geometries. *Journal of Non-Newtonian Fluid Mechanics*, **2020**, 283, 104293	2.7	6
31	Numerical study of the square-root conformation tensor formulation for confined and free-surface viscoelastic fluid flows. *Advanced Modeling and Simulation in Engineering Sciences*, **2016**, 3,	2.7	6
30	Grid and subgrid-scale interactions in viscoelastic turbulent flow and implications for modelling. *Journal of Turbulence*, **2016**, 17, 543-571	2.1	6
29	Effect of the solvent viscosity on pure electro-osmotic flow of viscoelastic fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2018**, 259, 125-129	2.7	5
28	Thermocapillary motion of a Newtonian drop in a dilute viscoelastic fluid. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 270, 8-22	2.7	5
27	Laminar flow field in a viscous liquid impinging jet confined by inclined plane walls. *International Journal of Thermal Sciences*, **2012**, 59, 95-110	4.1	5

26	Corrigendum to "Local similarity solution for steady laminar planar jet flow of viscoelastic FENE-P fluids" [Journal of Non-Newtonian Fluid Mechanics 279 (2020) 104265]. *Journal of Non-Newtonian Fluid Mechanics*, **2020**, 281, 104309	2.7	5
25	Stokes□second problem with wall suction or blowing for UCM fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 157, 66-78	2.7	4
24	Some Characteristics of Stirred Vessel Flows of Dilute Polymer Solutions Powered by a Hyperboloid Impeller. *Canadian Journal of Chemical Engineering*, **2008**, 82, 289-302	2.3	4
23	Vortex shedding in cylinder flow of shear-thinning fluids. III. *Journal of Non-Newtonian Fluid Mechanics*, **2004**, 121, 55-68	2.7	4
22	The effect of the expansion ratio on a turbulent non-Newtonian recirculating flow. *Experiments in Fluids*, **2002**, 32, 458-471	2.5	4
21	Revisiting the flat plate laminar boundary layer flow of viscoelastic FENE-P fluids. *Physics of Fluids*, **2021**, 33, 023103	4.4	4
20	The kernel-conformation constitutive laws. *Journal of Non-Newtonian Fluid Mechanics*, **2011**,	2.7	3
19	Recirculating turbulent flows of thixotropic fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2001**, 99, 183-201	2.7	3
18	A study on mixed electro-osmotic/pressure-driven microchannel flows of a generalised Phan-Thien□Tanner fluid. *Journal of Engineering Mathematics*, **2021**, 127, 1	1.2	3
17	Large eddy simulations of turbulent planar jets of viscoelastic fluids. *Physics of Fluids*, **2021**, 33, 045110	4.4	3
16	An Oldroyd-B solver for vanishingly small values of the viscosity ratio: Application to unsteady free surface flows. *Journal of Non-Newtonian Fluid Mechanics*, **2020**, 285, 104338	2.7	2
15	On the performance of a 2D unstructured computational rheology code on a GPU **2013**,		2
14	Extensional Effects in Viscoelastic Fluid Flow through a Micro-Scale Double Cross-Slot. *AIP Conference Proceedings*, **2008**,	0	2
13	Numerical simulations of viscoelastic flow around sharp corners **2001**, 772-775		2
12	Numerical simulation of viscoelastic contraction flows **2003**, 826-829		2
11	Hydrodynamic Entrance Length for Laminar Flow in Microchannels with Rectangular Cross Section. *Fluids*, **2021**, 6, 240	1.6	2
10	The Finite Volume Method in Computational Rheology **2012**,		1
9	Effect of polymer melt wall slip on the flow balance of profile extrusion dies **2013**,		1

8	Numerical Simulation of Heat Transfer Enhancement in Laminar Flow of Viscoelastic Fluids through a Rectangular Channel. *AIP Conference Proceedings*, **2008**,	0	1
7	Turbulent flow in stirred vessels agitated by a single, low-clearance hyperboloid impeller. *Chemical Engineering Science*, **2000**, 55, 3287-3303	4.4	1
6	Flow of a Blood Analogue Solution Through Microfabricated Hyperbolic Contractions. *Computational Methods in Applied Sciences (Springer)*, **2011**, 265-279	0.4	1
5	Thermal boundary layer of laminar flow of dilute polymer solution. *International Journal of Heat and Mass Transfer*, **2022**, 185, 122248	4.9	0
4	Shear rheology of a dilute emulsion of ferrofluid droplets dispersed in a nonmagnetizable carrier fluid under the influence of a uniform magnetic field. *Journal of Rheology*, **2021**, 65, 925-941	4.1	0
3	Label-free multi-step microfluidic device for mechanical characterization of blood cells: Diabetes type II. *Micro and Nano Engineering*, **2022**, 100149	3.4	0
2	Shear-thinning duct flow characteristics of relevance to stirred reactors. *Physics of Fluids A, Fluid Dynamics*, **1991**, 3, 1459-1459		
1	The steady laminar planar mixing layer flow of viscoelastic FENE-P fluids. *Journal of Engineering Mathematics*, **2022**, 132, 1	1.2	