Georgios G Georgiou

List of Publications by Year
in descending order

100 papers	2,036 citations	218677 26 h-index	315739 38 g-index
112 all docs	112 docs citations	112 times ranked	1110 citing authors

#	Article	IF	Citations
1	Apparent slip in colloidal suspensions. Journal of Rheology, 2022, 66, 79-90.	2.6	27
2	Annular Poiseuille flow of Bingham fluids with wall slip. Physics of Fluids, 2022, 34, .	4.0	6
3	Fluid Mechanics of Viscoplasticity. , 2022, , .		6
4	Scientific, societal and pedagogical approaches to tackle the impact of climate change on marine pollution. Scientific Reports, 2021, 11, 2927.	3.3	13
5	Simple shear flow of a Herschel-Bulkley fluid with wall slip above a threshold stress. Applications in Engineering Science, 2021, 8, 100068.	0.8	2
6	Flow of a Bingham fluid in a pipe of variable radius. Journal of Non-Newtonian Fluid Mechanics, 2020, 285, 104393.	2.4	10
7	A fast numerical scheme for the Poiseuille flow in a concentric annulus. Journal of Non-Newtonian Fluid Mechanics, 2020, 285, 104401.	2.4	5
8	On the use of the Lambert function in solving non-Newtonian flow problems. Physics of Fluids, 2020, 32, .	4.0	8
9	Newtonian plane Couette flow with dynamic wall slip. Meccanica, 2020, 55, 1499-1507.	2.0	8
10	Application of the Lambert W function to steady shearing Newtonian flows with logarithmic wall slip. Physics of Fluids, 2020, 32, 053107.	4.0	6
11	Blue Energy Potential Analysis in the Mediterranean. Frontiers in Energy Research, 2019, 7, .	2.3	9
12	Viscoplastic Couette Flow in the Presence of Wall Slip with Non-Zero Slip Yield Stress. Materials, 2019, 12, 3574.	2.9	10
13	Annular pressure-driven flow of a Bingham plastic with pressure-dependent rheological parameters. Rheologica Acta, 2019, 58, 699-707.	2.4	6
14	Lubrication solution of the flow of a Herschel-Bulkley fluid with pressure-dependent rheological parameters in an asymmetric channel. Physics of Fluids, 2019, 31, .	4.0	5
15	Start-up plane Poiseuille flow of a Bingham fluid. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 133-139.	2.4	7
16	Pressure-driven flow of a Herschel-Bulkley fluid with pressure-dependent rheological parameters. Physics of Fluids, 2018, 30, .	4.0	27
17	Analytical solution of the flow of a Newtonian fluid with pressure-dependent viscosity in a rectangular duct. Applied Mathematics and Computation, 2018, 322, 123-128.	2.2	8
18	Preface to Special Issue: Papers from HSR 2017—8th International Meeting of the Hellenic Society of Rheology, Limassol, Cyprus, July 12–14, 2017. Physics of Fluids, 2018, 30, 030501.	4.0	0

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19	The PAL (Penalized Augmented Lagrangian) method for computing viscoplastic flows: A new fast converging scheme. Journal of Non-Newtonian Fluid Mechanics, 2018, 256, 23-41.	2.4	37
20	A nonequilibrium thermodynamics perspective of thixotropy. Journal of Chemical Physics, 2018, 149, 244902.	3.0	17
21	Newtonian Poiseuille flow in ducts of annular-sector cross-sections with Navier slip. European Journal of Mechanics, B/Fluids, 2018, 72, 87-102.	2.5	14
22	Axisymmetric Poiseuille flow of a Bingham plastic with rheological parameters varying linearly with pressure. Journal of Non-Newtonian Fluid Mechanics, 2018, 259, 16-22.	2.4	7
23	Determining true material constants of viscoplastic materials from rotational rheometer data. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 101-108.	2.4	6
24	Lubrication solution of the axisymmetric Poiseuille flow of a Bingham fluid with pressure-dependent rheological parameters. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 76-86.	2.4	6
25	Confined viscoplastic flows with heterogeneous wall slip. Rheologica Acta, 2017, 56, 539-553.	2.4	12
26	On Poiseuille flows of a Bingham plastic with pressure-dependent rheological parameters. Journal of Non-Newtonian Fluid Mechanics, 2017, 250, 1-7.	2.4	16
27	Viscoplastic flow development in a channel with slip along one wall. Journal of Non-Newtonian Fluid Mechanics, 2017, 248, 8-22.	2.4	18
28	Cessation of Newtonian circular and plane Couette flows with wall slip and non-zero slip yield stress. Meccanica, 2017, 52, 2081-2099.	2.0	11
29	Cessation of viscoplastic Poiseuille flow in a square duct with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 13-26.	2.4	22
30	Viscoplastic flow development in tubes and channels with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 69-81.	2.4	16
31	The influence of oxygen concentration on the rheological properties and flow of whole human blood. Rheologica Acta, 2016, 55, 921-933.	2.4	10
32	Development lengths in Newtonian Poiseuille flows with wall slip. Applied Mathematics and Computation, 2016, 291, 98-114.	2.2	16
33	Viscoplastic flow development in tubes and channels with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2016, 238, 44-56.	2.4	4
34	New analytical solutions for weakly compressible Newtonian Poiseuille flows with pressure-dependent viscosity. International Journal of Engineering Science, 2016, 107, 13-27.	5.0	14
35	Viscoplastic flow in an extrusion damper. Journal of Non-Newtonian Fluid Mechanics, 2016, 232, 102-124.	2.4	17
36	Cessation of the lid-driven cavity flow of Newtonian and Bingham fluids. Rheologica Acta, 2016, 55, 51-66.	2.4	22

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37	Hemodynamics in stenotic vessels of small diameter under steady state conditions: Effect of viscoelasticity and migration ofÂredÂblood cells. Biorheology, 2015, 52, 183-210.	0.4	31
38	Thixotropic flow past a cylinder. Journal of Non-Newtonian Fluid Mechanics, 2015, 220, 44-56.	2.4	27
39	The Effect of Head Rotation on the Geometry and Hemodynamics of Healthy Vertebral Arteries. Annals of Biomedical Engineering, 2015, 43, 1287-1297.	2.5	12
40	Start-up and cessation Newtonian Poiseuille and Couette flows with dynamic wall slip. Meccanica, 2015, 50, 1747-1760.	2.0	12
41	Asymptotic solutions of weakly compressible Newtonian Poiseuille flows with pressure-dependent viscosity. European Journal of Mechanics, B/Fluids, 2015, 49, 217-225.	2.5	14
42	A note on the unbounded creeping flow past a sphere for Newtonian fluids with pressure-dependent viscosity. International Journal of Engineering Science, 2015, 86, 1-9.	5.0	24
43	Numerical study of the combined effects of inertia, slip, and compressibility in extrusion of yield stress fluids. Rheologica Acta, 2014, 53, 791-804.	2.4	6
44	Wave energy potential in the Eastern Mediterranean Levantine Basin. An integrated 10-year study. Renewable Energy, 2014, 69, 311-323.	8.9	53
45	Performance of the finite volume method in solving regularised Bingham flows: Inertia effects in the lid-driven cavity flow. Journal of Non-Newtonian Fluid Mechanics, 2014, 208-209, 88-107.	2.4	47
46	Cessation of viscoplastic Poiseuille flow with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2014, 203, 24-37.	2.4	56
47	Impact of Head Rotation on the Individualized Common Carotid Flow and Carotid Bifurcation Hemodynamics. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 783-789.	6.3	11
48	Viscoplastic Poiseuille flow in a rectangular duct with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2014, 214, 88-105.	2.4	30
49	The singular function boundary integral method for an elastic plane stress wedge beam problem with a point boundary singularity. Applied Mathematics and Computation, 2014, 248, 93-100.	2.2	5
50	Continuum Model for the Phase Behavior, Microstructure, and Rheology of Unentangled Polymer Nanocomposite Melts. Macromolecules, 2014, 47, 4493-4513.	4.8	27
51	Newtonian flow in a triangular duct with slip at the wall. Meccanica, 2013, 48, 2577-2583.	2.0	12
52	Squeeze flow of semi-solid slurries. Journal of Non-Newtonian Fluid Mechanics, 2013, 193, 103-115.	2.4	20
53	Combined effects of compressibility and slip in flows of a Herschelâ€"Bulkley fluid. Journal of Non-Newtonian Fluid Mechanics, 2013, 193, 89-102.	2.4	47
54	Newtonian Poiseuille flows with slip and non-zero slip yield stress. Journal of Non-Newtonian Fluid Mechanics, 2013, 197, 24-30.	2.4	29

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55	Effect of head posture on the healthy human carotid bifurcation hemodynamics. Medical and Biological Engineering and Computing, 2013, 51, 207-218.	2.8	17
56	Newtonian Poiseuille flows with pressure-dependent wall slip. Journal of Rheology, 2013, 57, 315-332.	2.6	13
57	On the combined effects of slip, compressibility, and inertia on the Newtonian extrudate-swell flow problem. Computers and Fluids, 2013, 71, 297-305.	2.5	10
58	Slip yield stress effects in start-up Newtonian Poiseuille flows. Rheologica Acta, 2013, 52, 913-925.	2.4	10
59	Solution of the square lid-driven cavity flow of a Bingham plastic using the finite volume method. Journal of Non-Newtonian Fluid Mechanics, 2013, 195, 19-31.	2.4	62
60	Complex Systems Modelling, Analysis, and Control. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.9	0
61	Head Rotation Effects on the Flow and Hemodynamics of the Human Carotid Bifurcation. , 2013, , .		0
62	Stopping times in cessation flows of Bingham plastics with slip at the wall. , 2012, , .		0
63	Head posture influences the geometric and hemodynamic features on the healthy human carotid bifurcation. , 2012, , .		1
64	Squeeze Flow of Semi-Solid Slurries. Solid State Phenomena, 2012, 192-193, 263-268.	0.3	1
65	Laminar axisymmetric flow of a weakly compressible viscoelastic fluid. Rheologica Acta, 2012, 51, 511-526.	2.4	6
66	Perturbation solutions of weakly compressible Newtonian Poiseuille flows with Navier slip at the wall. Rheologica Acta, 2012, 51, 497-510.	2.4	4
67	A study of various factors affecting Newtonian extrudate swell. Computers and Fluids, 2012, 57, 195-207.	2.5	34
68	Effect of Posture Change on the Geometric Features of the Healthy Carotid Bifurcation. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 148-154.	3.2	19
69	The influence of temperature on rheological properties of blood mixtures with different volume expandersâ€"implications in numerical arterial hemodynamics simulations. Rheologica Acta, 2011, 50, 389-402.	2.4	35
70	Viscoplastic fluids: from theory to application (VPF2009), Limassol, Cyprus, 1â€"5 November, 2009. Rheologica Acta, 2011, 50, 303-306.	2.4	0
71	Perturbation solution of Poiseuille flow of a weakly compressible Oldroyd-B fluid. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 73-92.	2.4	9
72	Incompressible Poiseuille flows of Newtonian liquids with a pressure-dependent viscosity. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 413-419.	2.4	39

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73	Unsteady circular Couette flow of a Bingham plastic with the Augmented Lagrangian Method. Rheologica Acta, 2010, 49, 1197-1206.	2.4	19
74	Numerical simulations of cessation flows of a Bingham plastic with the augmented Lagrangian method. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 544-550.	2.4	35
75	Stability of the annular Poiseuille flow of a Newtonian liquid with slip along the walls. Journal of Non-Newtonian Fluid Mechanics, 2009, 159, 1-9.	2.4	25
76	Weakly compressible Poiseuille flows of a Herschel–Bulkley fluid. Journal of Non-Newtonian Fluid Mechanics, 2009, 158, 162-169.	2.4	14
77	Perturbation solutions of Poiseuille flows of weakly compressible Newtonian liquids. Journal of Non-Newtonian Fluid Mechanics, 2009, 163, 25-34.	2.4	19
78	Numerical simulation of the extrusion of strongly compressible Newtonian liquids. Rheologica Acta, 2008, 47, 49-62.	2.4	32
79	Cessation of annular Poiseuille flows of Bingham plastics. Journal of Non-Newtonian Fluid Mechanics, 2007, 142, 135-142.	2.4	19
80	A two-dimensional numerical study of the stick–slip extrusion instability. Journal of Non-Newtonian Fluid Mechanics, 2007, 146, 30-44.	2.4	20
81	Flow development in compression of a finite amount of a Bingham plastic. Journal of Non-Newtonian Fluid Mechanics, 2007, 143, 38-47.	2.4	17
82	Cessation of Couette and Poiseuille flows of a Bingham plastic and finite stopping times. Journal of Non-Newtonian Fluid Mechanics, 2005, 129, 117-127.	2.4	55
83	Solving Laplacian problems with boundary singularities: a comparison of a singular function boundary integral method with the p/hp version of the finite element method. Applied Mathematics and Computation, 2005, 169, 485-499.	2.2	23
84	Solution of the planar Newtonian stick-slip problem with the singular function boundary integral method. International Journal for Numerical Methods in Fluids, 2005, 48, 1001-1021.	1.6	24
85	Annular liquid jets at high Reynolds numbers. International Journal for Numerical Methods in Fluids, 2003, 42, 117-130.	1.6	8
86	The time-dependent, compressible Poiseuille and extrudate-swell flows of a Carreau fluid with slip at the wall. Journal of Non-Newtonian Fluid Mechanics, 2003, 109, 93-114.	2.4	59
87	On numerical Simulations of Polymer Extrusion Instabilities. Applied Rheology, 2002, 12, 88-104.	5.2	18
88	The steady annular extrusion of a Newtonian liquid under gravity and surface tension. International Journal for Numerical Methods in Fluids, 2000, 33, 1099-1119.	1.6	22
89	Time-dependent plane Poiseuille flow of a Johnson–Segalman fluid. Journal of Non-Newtonian Fluid Mechanics, 1999, 82, 105-123.	2.4	20
90	Converged solutions of the Newtonian extrudate-swell problem. International Journal for Numerical Methods in Fluids, 1999, 29, 363-371.	1.6	33

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91	On the stability of the simple shear flow of a Johnsonâ€"Segalman fluid. Journal of Non-Newtonian Fluid Mechanics, 1998, 75, 77-97.	2.4	50
92	The time-dependent extrudate-swell problem of an Oldroyd-B fluid with slip along the wall. Journal of Rheology, 1998, 42, 549-566.	2.6	54
93	A singular function boundary integral method for the Laplace equation. Communications in Numerical Methods in Engineering, 1996, 12, 127-134.	1.3	45
94	Extrusion of a compressible Newtonian fluid with periodic inflow and slip at the wall. Rheologica Acta, 1996, 35, 531-544.	2.4	6
95	On the stability of the shear flow of a viscoelastic fluid with slip along the fixed wall. Rheologica Acta, 1996, 35, 39-47.	2.4	23
96	Compressible viscous flow in slits with slip at the wall. Journal of Rheology, 1994, 38, 639-654.	2.6	77
97	Timeâ€dependent compressible extrudateâ€swell problem with slip at the wall. Journal of Rheology, 1994, 38, 1745-1755.	2.6	45
98	An efficient finite element method for treating singularities in Laplace's equation. Journal of Computational Physics, 1991, 96, 391-410.	3.8	44
99	Singular finite elements for the sudden-expansion and the die-swell problems. International Journal for Numerical Methods in Fluids, 1990, 10, 357-372.	1.6	34
100	A singular finite element for Stokes flow: The stick-slip problem. International Journal for Numerical Methods in Fluids, 1989, 9, 1353-1367.	1.6	45