

Georgios G Georgiou

List of Publications by Year in descending order

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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	Compressible viscous flow in slits with slip at the wall. <i>Journal of Rheology</i> , 1994, 38, 639-654.	2.6	77
2	Solution of the square lid-driven cavity flow of a Bingham plastic using the finite volume method. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 195, 19-31.	2.4	62
3	The time-dependent, compressible Poiseuille and extrudate-swell flows of a Carreau fluid with slip at the wall. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003, 109, 93-114.	2.4	59
4	Cessation of viscoplastic Poiseuille flow with wall slip. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 203, 24-37.	2.4	56
5	Cessation of Couette and Poiseuille flows of a Bingham plastic and finite stopping times. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 129, 117-127.	2.4	55
6	The time-dependent extrudate-swell problem of an Oldroyd-B fluid with slip along the wall. <i>Journal of Rheology</i> , 1998, 42, 549-566.	2.6	54
7	Wave energy potential in the Eastern Mediterranean Levantine Basin. An integrated 10-year study. <i>Renewable Energy</i> , 2014, 69, 311-323.	8.9	53
8	On the stability of the simple shear flow of a Johnsonâ€“Segalman fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1998, 75, 77-97.	2.4	50
9	Combined effects of compressibility and slip in flows of a Herschelâ€“Bulkley fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 193, 89-102.	2.4	47
10	Performance of the finite volume method in solving regularised Bingham flows: Inertia effects in the lid-driven cavity flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 208-209, 88-107.	2.4	47
11	A singular finite element for Stokes flow: The stick-slip problem. <i>International Journal for Numerical Methods in Fluids</i> , 1989, 9, 1353-1367.	1.6	45
12	Timeâ€“dependent compressible extrudateâ€“swell problem with slip at the wall. <i>Journal of Rheology</i> , 1994, 38, 1745-1755.	2.6	45
13	A singular function boundary integral method for the Laplace equation. <i>Communications in Numerical Methods in Engineering</i> , 1996, 12, 127-134.	1.3	45
14	An efficient finite element method for treating singularities in Laplace's equation. <i>Journal of Computational Physics</i> , 1991, 96, 391-410.	3.8	44
15	Incompressible Poiseuille flows of Newtonian liquids with a pressure-dependent viscosity. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 413-419.	2.4	39
16	The PAL (Penalized Augmented Lagrangian) method for computing viscoplastic flows: A new fast converging scheme. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 256, 23-41.	2.4	37
17	Numerical simulations of cessation flows of a Bingham plastic with the augmented Lagrangian method. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 544-550.	2.4	35
18	The influence of temperature on rheological properties of blood mixtures with different volume expandersâ€“implications in numerical arterial hemodynamics simulations. <i>Rheologica Acta</i> , 2011, 50, 389-402.	2.4	35

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19	Singular finite elements for the sudden-expansion and the die-swell problems. <i>International Journal for Numerical Methods in Fluids</i> , 1990, 10, 357-372.	1.6	34
20	A study of various factors affecting Newtonian extrudate swell. <i>Computers and Fluids</i> , 2012, 57, 195-207.	2.5	34
21	Converged solutions of the Newtonian extrudate-swell problem. <i>International Journal for Numerical Methods in Fluids</i> , 1999, 29, 363-371.	1.6	33
22	Numerical simulation of the extrusion of strongly compressible Newtonian liquids. <i>Rheologica Acta</i> , 2008, 47, 49-62.	2.4	32
23	Hemodynamics in stenotic vessels of small diameter under steady state conditions: Effect of viscoelasticity and migration of Åred Å blood cells. <i>Biorheology</i> , 2015, 52, 183-210.	0.4	31
24	Viscoplastic Poiseuille flow in a rectangular duct with wall slip. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 214, 88-105.	2.4	30
25	Newtonian Poiseuille flows with slip and non-zero slip yield stress. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 197, 24-30.	2.4	29
26	Continuum Model for the Phase Behavior, Microstructure, and Rheology of Unentangled Polymer Nanocomposite Melts. <i>Macromolecules</i> , 2014, 47, 4493-4513.	4.8	27
27	Thixotropic flow past a cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 220, 44-56.	2.4	27
28	Pressure-driven flow of a Herschel-Bulkley fluid with pressure-dependent rheological parameters. <i>Physics of Fluids</i> , 2018, 30, .	4.0	27
29	Apparent slip in colloidal suspensions. <i>Journal of Rheology</i> , 2022, 66, 79-90.	2.6	27
30	Stability of the annular Poiseuille flow of a Newtonian liquid with slip along the walls. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 159, 1-9.	2.4	25
31	Solution of the planar Newtonian stick-slip problem with the singular function boundary integral method. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 48, 1001-1021.	1.6	24
32	A note on the unbounded creeping flow past a sphere for Newtonian fluids with pressure-dependent viscosity. <i>International Journal of Engineering Science</i> , 2015, 86, 1-9.	5.0	24
33	On the stability of the shear flow of a viscoelastic fluid with slip along the fixed wall. <i>Rheologica Acta</i> , 1996, 35, 39-47.	2.4	23
34	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. <i>Applied Mathematics and Computation</i> , 2005, 169, 485-499.	2.2	23
35	The steady annular extrusion of a Newtonian liquid under gravity and surface tension. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 33, 1099-1119.	1.6	22
36	Cessation of viscoplastic Poiseuille flow in a square duct with wall slip. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 233, 13-26.	2.4	22

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37	Cessation of the lid-driven cavity flow of Newtonian and Bingham fluids. <i>Rheologica Acta</i> , 2016, 55, 51-66.	2.4	22
38	Time-dependent plane Poiseuille flow of a Johnsonâ€“Segalman fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999, 82, 105-123.	2.4	20
39	A two-dimensional numerical study of the stickâ€“slip extrusion instability. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 146, 30-44.	2.4	20
40	Squeeze flow of semi-solid slurries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 193, 103-115.	2.4	20
41	Cessation of annular Poiseuille flows of Bingham plastics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 142, 135-142.	2.4	19
42	Perturbation solutions of Poiseuille flows of weakly compressible Newtonian liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 163, 25-34.	2.4	19
43	Unsteady circular Couette flow of a Bingham plastic with the Augmented Lagrangian Method. <i>Rheologica Acta</i> , 2010, 49, 1197-1206.	2.4	19
44	Effect of Posture Change on the Geometric Features of the Healthy Carotid Bifurcation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 148-154.	3.2	19
45	On numerical Simulations of Polymer Extrusion Instabilities. <i>Applied Rheology</i> , 2002, 12, 88-104.	5.2	18
46	Viscoplastic flow development in a channel with slip along one wall. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 248, 8-22.	2.4	18
47	Flow development in compression of a finite amount of a Bingham plastic. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 143, 38-47.	2.4	17
48	Effect of head posture on the healthy human carotid bifurcation hemodynamics. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 207-218.	2.8	17
49	Viscoplastic flow in an extrusion damper. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 232, 102-124.	2.4	17
50	A nonequilibrium thermodynamics perspective of thixotropy. <i>Journal of Chemical Physics</i> , 2018, 149, 244902.	3.0	17
51	Viscoplastic flow development in tubes and channels with wall slip. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 234, 69-81.	2.4	16
52	Development lengths in Newtonian Poiseuille flows with wall slip. <i>Applied Mathematics and Computation</i> , 2016, 291, 98-114.	2.2	16
53	On Poiseuille flows of a Bingham plastic with pressure-dependent rheological parameters. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 250, 1-7.	2.4	16
54	Weakly compressible Poiseuille flows of a Herschelâ€“Bulkley fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 158, 162-169.	2.4	14

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55	Asymptotic solutions of weakly compressible Newtonian Poiseuille flows with pressure-dependent viscosity. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 217-225.	2.5	14
56	New analytical solutions for weakly compressible Newtonian Poiseuille flows with pressure-dependent viscosity. <i>International Journal of Engineering Science</i> , 2016, 107, 13-27.	5.0	14
57	Newtonian Poiseuille flow in ducts of annular-sector cross-sections with Navier slip. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 72, 87-102.	2.5	14
58	Newtonian Poiseuille flows with pressure-dependent wall slip. <i>Journal of Rheology</i> , 2013, 57, 315-332.	2.6	13
59	Scientific, societal and pedagogical approaches to tackle the impact of climate change on marine pollution. <i>Scientific Reports</i> , 2021, 11, 2927.	3.3	13
60	Newtonian flow in a triangular duct with slip at the wall. <i>Meccanica</i> , 2013, 48, 2577-2583.	2.0	12
61	The Effect of Head Rotation on the Geometry and Hemodynamics of Healthy Vertebral Arteries. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1287-1297.	2.5	12
62	Start-up and cessation Newtonian Poiseuille and Couette flows with dynamic wall slip. <i>Meccanica</i> , 2015, 50, 1747-1760.	2.0	12
63	Confined viscoplastic flows with heterogeneous wall slip. <i>Rheologica Acta</i> , 2017, 56, 539-553.	2.4	12
64	Impact of Head Rotation on the Individualized Common Carotid Flow and Carotid Bifurcation Hemodynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 783-789.	6.3	11
65	Cessation of Newtonian circular and plane Couette flows with wall slip and non-zero slip yield stress. <i>Meccanica</i> , 2017, 52, 2081-2099.	2.0	11
66	On the combined effects of slip, compressibility, and inertia on the Newtonian extrudate-swell flow problem. <i>Computers and Fluids</i> , 2013, 71, 297-305.	2.5	10
67	Slip yield stress effects in start-up Newtonian Poiseuille flows. <i>Rheologica Acta</i> , 2013, 52, 913-925.	2.4	10
68	The influence of oxygen concentration on the rheological properties and flow of whole human blood. <i>Rheologica Acta</i> , 2016, 55, 921-933.	2.4	10
69	Viscoplastic Couette Flow in the Presence of Wall Slip with Non-Zero Slip Yield Stress. <i>Materials</i> , 2019, 12, 3574.	2.9	10
70	Flow of a Bingham fluid in a pipe of variable radius. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 285, 104393.	2.4	10
71	Perturbation solution of Poiseuille flow of a weakly compressible Oldroyd-B fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 73-92.	2.4	9
72	Blue Energy Potential Analysis in the Mediterranean. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	9

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73	Annular liquid jets at high Reynolds numbers. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 42, 117-130.	1.6	8
74	Analytical solution of the flow of a Newtonian fluid with pressure-dependent viscosity in a rectangular duct. <i>Applied Mathematics and Computation</i> , 2018, 322, 123-128.	2.2	8
75	On the use of the Lambert function in solving non-Newtonian flow problems. <i>Physics of Fluids</i> , 2020, 32, .	4.0	8
76	Newtonian plane Couette flow with dynamic wall slip. <i>Meccanica</i> , 2020, 55, 1499-1507.	2.0	8
77	Axisymmetric Poiseuille flow of a Bingham plastic with rheological parameters varying linearly with pressure. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 259, 16-22.	2.4	7
78	Start-up plane Poiseuille flow of a Bingham fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 265, 133-139.	2.4	7
79	Extrusion of a compressible Newtonian fluid with periodic inflow and slip at the wall. <i>Rheologica Acta</i> , 1996, 35, 531-544.	2.4	6
80	Laminar axisymmetric flow of a weakly compressible viscoelastic fluid. <i>Rheologica Acta</i> , 2012, 51, 511-526.	2.4	6
81	Numerical study of the combined effects of inertia, slip, and compressibility in extrusion of yield stress fluids. <i>Rheologica Acta</i> , 2014, 53, 791-804.	2.4	6
82	Determining true material constants of viscoplastic materials from rotational rheometer data. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 260, 101-108.	2.4	6
83	Lubrication solution of the axisymmetric Poiseuille flow of a Bingham fluid with pressure-dependent rheological parameters. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 260, 76-86.	2.4	6
84	Annular pressure-driven flow of a Bingham plastic with pressure-dependent rheological parameters. <i>Rheologica Acta</i> , 2019, 58, 699-707.	2.4	6
85	Application of the Lambert W function to steady shearing Newtonian flows with logarithmic wall slip. <i>Physics of Fluids</i> , 2020, 32, 053107.	4.0	6
86	Annular Poiseuille flow of Bingham fluids with wall slip. <i>Physics of Fluids</i> , 2022, 34, .	4.0	6
87	Fluid Mechanics of Viscoplasticity. , 2022, , .		6
88	The singular function boundary integral method for an elastic plane stress wedge beam problem with a point boundary singularity. <i>Applied Mathematics and Computation</i> , 2014, 248, 93-100.	2.2	5
89	Lubrication solution of the flow of a Herschel-Bulkley fluid with pressure-dependent rheological parameters in an asymmetric channel. <i>Physics of Fluids</i> , 2019, 31, .	4.0	5
90	A fast numerical scheme for the Poiseuille flow in a concentric annulus. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 285, 104401.	2.4	5

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91	Perturbation solutions of weakly compressible Newtonian Poiseuille flows with Navier slip at the wall. <i>Rheologica Acta</i> , 2012, 51, 497-510.	2.4	4
92	Viscoplastic flow development in tubes and channels with wall slip. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 238, 44-56.	2.4	4
93	Simple shear flow of a Herschel-Bulkley fluid with wall slip above a threshold stress. <i>Applications in Engineering Science</i> , 2021, 8, 100068.	0.8	2
94	Head posture influences the geometric and hemodynamic features on the healthy human carotid bifurcation. , 2012, , .		1
95	Squeeze Flow of Semi-Solid Slurries. <i>Solid State Phenomena</i> , 2012, 192-193, 263-268.	0.3	1
96	Viscoplastic fluids: from theory to application (VPF2009), Limassol, Cyprus, 12-15 November, 2009. <i>Rheologica Acta</i> , 2011, 50, 303-306.	2.4	0
97	Stopping times in cessation flows of Bingham plastics with slip at the wall. , 2012, , .		0
98	Complex Systems Modelling, Analysis, and Control. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-2.	0.9	0
99	Head Rotation Effects on the Flow and Hemodynamics of the Human Carotid Bifurcation. , 2013, , .		0
100	Preface to Special Issue: Papers from HSR 2017-18th International Meeting of the Hellenic Society of Rheology, Limassol, Cyprus, July 12-14, 2017. <i>Physics of Fluids</i> , 2018, 30, 030501.	4.0	0