Giovanni P Galdi

List of Publications by Year
in descending order

57	1,551	361388	315719
papers	citations	20 h-index	38 g-index

60	60	60	428
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Navierâ€“Stokes Flow Past a Rigid Body That Moves by Time-Periodic Motion. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	1.0	4
2	Nonlinear stability analysis of a spinning top with an interior liquid-filled cavity. Mathematical Modelling of Natural Phenomena, 2021, 16, 22.	2.4	1
3	On Time-Periodic Bifurcation of a Sphere Moving under Gravity in a Navier-Stokes Liquid. Mathematics, 2021, 9, 715.	2.2	0
4	Spatial Decay of the Vorticity Field of Time-Periodic Viscous Flow Past a Body. Archive for Rational Mechanics and Analysis, 2021, 242, 149-178.	2.4	3
5	Nonlinear spectral instability of steady-state flow of a viscous liquid past a rotating obstacle. Mathematische Annalen, 2020, , 1.	1.4	1
6	On the problem of steady bifurcation of a falling sphere in a Navierâ€“Stokes liquid. Journal of Mathematical Physics, 2020, 61, 083101.	1.1	2
7	On the Self-propulsion of a Rigid Body in a Viscous Liquid by Time-Periodic Boundary Data. Journal of Mathematical Fluid Mechanics, 2020, 22, 1.	1.0	4
8	Viscous Flow Past a Body Translating by Time-Periodic Motion with Zero Average. Archive for Rational Mechanics and Analysis, 2020, 237, 1237-1269.	2.4	9
9	On weak solutions to the problem of a rigid body with a cavity filled with a compressible fluid, and their asymptotic behavior. International Journal of Non-Linear Mechanics, 2020, 121, 103431.	2.6	6
10	On the Motion of a Body with a Cavity Filled with Compressible Fluid. Archive for Rational Mechanics and Analysis, 2019, 232, 1649-1683.	2.4	6
11	Time-Periodic Solutions to the Navier-Stokes Equations. , 2018, , 509-578.		12
12	Steady-State Navier-Stokes Flow Around a Moving Body. , 2018, , 341-417.		8
13	On the motion of a liquid-filled heavy body around a fixed point. Quarterly of Applied Mathematics, 2017, 76, 113-145.	0.7	7
14	Inertial Motions of a Rigid Body with a Cavity Filled with a Viscous Liquid. Archive for Rational Mechanics and Analysis, 2016, 221, 487-526.	2.4	26
15	Womersley flow of generalized Newtonian liquid. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2016, 146, 671-692.	1.2	3
16	Exponential Decay of the Vorticity in the Steady-State Flow of a Viscous Liquid Past a Rotating Body. Archive for Rational Mechanics and Analysis, 2016, 221, 183-213.	2.4	3
17	On Bifurcating Time-Periodic Flow of a Navier-Stokes Liquid Past a Cylinder. Archive for Rational Mechanics and Analysis, 2016, 222, 285-315.	2.4	12
18	Time-Periodic Solutions to the Navier-Stokes Equations. , 2016, , 1-70.		4

#	Article	IF	Citations
19	Steady-State Navierâ€“Stokes Flow Around a Moving Body. , 2016, , 1-77.		0
20	Steady-state flow of a shear-thinning liquid in an unbounded pipeline system. Analysis (Germany), 2015, 35, .	0.4	1
21	On the Lerayâ€“Hopf extension condition for the steady-state Navierâ€“Stokes problem in multiply-connected bounded domains. Annali Dell'Universita Di Ferrara, 2014, 60, 123-132.	1.3	5
22	Capillary surfaces and floating bodies. Annali Di Matematica Pura Ed Applicata, 2014, 193, 1185-1200.	1.0	3
23	A simple proof of ?^{?}-estimates for the steady-state Oseen and Stokes equations in a rotating frame. Part II: Weak solutions. Proceedings of the American Mathematical Society, 2013, 141, 1313-1322.	0.8	15
24	On Time-Periodic Flow of a Viscous Liquid past a Moving Cylinder. Archive for Rational Mechanics and Analysis, 2013, 210, 451-498.	2.4	27
25	Inertial motions of a rigid body with a cavity filled with a viscous liquid. Comptes Rendus - Mecanique, 2013, 341, 760-765.	2.1	13
26	Existence and uniqueness of time-periodic solutions to the Navier-Stokes equations in the whole plane. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 1237-1257.	1.1	10
27	A simple proof of ?^{?}-estimates for the steady-state Oseen and Stokes equations in a rotating frame. Part I: Strong solutions. Proceedings of the American Mathematical Society, 2013, 141, 573-583.	0.8	22
28	Steady-State Navierâ€“Stokes Problem Past a Rotating Body: Geometric-Functional Properties and Related Questions. Lecture Notes in Mathematics, 2013, , 109-197.	0.2	2
29	On the Navierâ€“Stokes Problem in Exterior Domains with Non Decaying Initial Data. Journal of Mathematical Fluid Mechanics, 2012, 14, 633-652.	1.0	14
30	Fluid Flows Around Floating Bodies, I: The Hydrostatic Case. Journal of Mathematical Fluid Mechanics, 2012, 14, 751-770.	1.0	7
31	Steady-State Navierâ€“Stokes Flows Past a Rotating Body: Leray Solutions are Physically Reasonable. Archive for Rational Mechanics and Analysis, 2011, 200, 21-58.	2.4	31
32	Existence and Regularity of Steady Flows for Shear-Thinning Liquids in Exterior Two-Dimensional. Archive for Rational Mechanics and Analysis, 2011, 200, 533-559.	2.4	8
33	Asymptotic structure of a Leray solution to the Navierâ€“Stokes flow around a rotating body. Pacific Journal of Mathematics, 2011, 253, 367-382.	0.5	23
34	On the motion of a rigid body in a Navier-Stokes liquid under the action of a time-periodic force. Indiana University Mathematics Journal, 2009, 58, 2805-2842.	0.9	29
35	Steady Flow of a Navierâ€“Stokes Liquid Past an Elastic Body. Archive for Rational Mechanics and Analysis, 2009, 194, 849-875.	2.4	18
36	Mathematical Problems in Classical and Non-Newtonian Fluid Mechanics. , 2008, , 121-273.		35

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37	A steady-state exterior Navier-Stokes problem that is not well-posed. Proceedings of the American Mathematical Society, 2008, 137, 679-684.	0.8	6
38	Further properties of steady-state solutions to the Navier-Stokes problem past a three-dimensional obstacle. Journal of Mathematical Physics, 2007, 48, 065207.	1.1	19
39	The Steady Motion of a Navierâ€“Stokes Liquid Around a Rigid Body. Archive for Rational Mechanics and Analysis, 2007, 184, 371-400.	2.4	63
40	A New Class of Weak Solutions of the Navierâ€“Stokes Equations with Nonhomogeneous Data. Journal of Mathematical Fluid Mechanics, 2006, 8, 423-444.	1.0	66
41	Determining Modes, Nodes and Volume Elements for Stationary Solutions of the Navier-Stokes Problem Past a Three-Dimensional Body. Archive for Rational Mechanics and Analysis, 2006, 180, 97-126.	2.4	4
42	Existence of time-periodic solutions to the Navierâ€“Stokes equations around a moving body. Pacific Journal of Mathematics, 2006, 223, 251-267.	0.5	53
43	Strong Solutions to the Navier-Stokes Equations Around a Rotating Obstacle. Archive for Rational Mechanics and Analysis, 2005, 176, 331-350.	2.4	55
44	Existence and Uniqueness of Time-Periodic Physically Reasonable Navier-Stokes Flow Past a Body. Archive for Rational Mechanics and Analysis, 2004, 172, 363-406.	2.4	63
45	Steady Flow of a Navierâ€“Stokes Fluid Around a Rotating Obstacle. Journal of Elasticity, 2003, 71, 1-31.	1.9	61
46	MATHEMATICAL ANALYSIS FOR THE RATIONAL LARGE EDDY SIMULATION MODEL. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1131-1152.	3.3	24
47	ORIENTATION OF SYMMETRIC BODIES FALLING IN A SECOND-ORDER LIQUID AT NONZERO REYNOLDS NUMBER. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1653-1690.	3.3	28
48	On the Motion of a Rigid Body in a Viscous Liquid: A Mathematical Analysis with Applications. Handbook of Mathematical Fluid Dynamics, 2002, 1, 653-791.	0.1	127
49	Translational Steady Fall of Symmetric Bodies in a Navier-Stokes Liquid, with Application to Particle Sedimentation. Journal of Mathematical Fluid Mechanics, 2001, 3, 183-211.	1.0	38
50	Sharp Existence ResultsÂ¶for the Stationary Navier-Stokes ProblemÂ¶in Three-Dimensional Exterior Domains. Archive for Rational Mechanics and Analysis, 2000, 154, 343-368.	2.4	10
51	APPROXIMATION OF THE LARGER EDDIES IN FLUID MOTIONS II: A MODEL FOR SPACE-FILTERED FLOW. Mathematical Models and Methods in Applied Sciences, 2000, 10, 343-350.	3.3	102
52	On the Steady Selfâ€Propelled Motion of a Body in a Viscous Incompressible Fluid. Archive for Rational Mechanics and Analysis, 1999, 148, 53-88.	2.4	79
53	Functional Properties of the Navier-Stokes Operator and Bifurcation of Stationary Solutions: Planar Exterior Domains. , 1999, , 273-303.		10
54	An Introduction to the Mathematical Theory of the Navier-Stokes Equations. Springer Tracts in Natural Philosophy, 1994, , .	0.8	328

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55	A uniqueness theorem for viscous fluid motions in exterior domains. Archive for Rational Mechanics and Analysis, 1986, 91, 375-384.	2.4	25
56	On the best conditions on the gradient of pressure for uniqueness of viscous flows in the whole space. Pacific Journal of Mathematics, 1983, 104, 77-83.	0.5	7
57	Attainability of time-periodic flow of a viscous liquid past an oscillating body. Journal of Evolution Equations, 0, , 1.	1.1	2