

Reinhard Farwig

List of Publications by Year in descending order

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citations

394421

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81
docs citations

81
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximal L1-Regularity of Generators for Bounded Analytic Semigroups in Banach Spaces. Acta Mathematica Scientia, 2022, 42, 1261-1272.	1.0	2
2	The Fujita-Kato Approach for The Navier-Stokes Equations with Moving Boundary and Its Application. Journal of Mathematical Fluid Mechanics, 2022, 24, .	1.0	4
3	From Jean Leray to the millennium problem: the Navier-Stokes equations. Journal of Evolution Equations, 2021, 21, 3243-3263.	1.1	3
4	Optimality of Serrin type extension criteria to the Navier-Stokes equations. Advances in Nonlinear Analysis, 2021, 10, 1071-1085.	2.6	3
5	Uniform estimates for fractional operators. SN Partial Differential Equations and Applications, 2021, 2, 1.	0.6	2
6	Weak Solutions to a Fluid-Structure Interaction Model of a Viscous Fluid with an Elastic Plate under Coulomb Friction Coupling. Mathematics, 2021, 9, 1026.	2.2	1
7	The time periodic problem of the Navier-Stokes equations in a bounded domain with moving boundary. Nonlinear Analysis: Real World Applications, 2021, 61, 103339.	1.7	9
8	Incompressible inhomogeneous fluids in bounded domains of \mathbb{R}^3 with bounded density. Journal of Functional Analysis, 2020, 278, 108394.	1.4	4
9	The global existence and attractor for p-Laplace equations in unbounded domains. Journal of Elliptic and Parabolic Equations, 2020, 6, 311-342.	0.9	0
10	Maximal regularity of the Stokes system with Navier boundary condition in general unbounded domains. Journal of the Mathematical Society of Japan, 2019, 71, .	0.4	2
11	On the continuity of the solutions to the Navier-Stokes equations with initial data in critical Besov spaces. Annali Di Matematica Pura Ed Applicata, 2019, 198, 1495-1511.	1.0	3
12	Maximal regularity of the Stokes operator in an exterior domain with moving boundary and application to the Navier-Stokes equations. Mathematische Annalen, 2019, 375, 949-972.	1.4	6
13	Asymptotic behavior for the quasi-geostrophic equations with fractional dissipation in \mathbb{R}^2 . Journal of Differential Equations, 2019, 266, 6525-6579.	2.2	8
14	Spatial Asymptotic Profiles of Solutions to the Navier-Stokes System in a Rotating Frame with Fast Decaying Data. Hokkaido Mathematical Journal, 2018, 47, .	0.3	2
15	Stokes Semigroups, Strong, Weak, and Very Weak Solutions for General Domains. , 2018, , 419-459.		3
16	Well-chosen weak solutions of the instationary Navier-Stokes system and their uniqueness. Hokkaido Mathematical Journal, 2018, 47, .	0.3	2
17	Existence of strong solutions and decay of turbulent solutions of Navier-Stokes flow with nonzero Dirichlet boundary data. Journal of Mathematical Analysis and Applications, 2017, 453, 271-286.	1.0	3
18	Jean Leray: Sur le mouvement d'un liquide visqueux emplissant l'espace.. Deutsche Mathematiker Vereinigung Jahresbericht, 2017, 119, 249-272.	1.1	1

#	ARTICLE	IF	CITATIONS
19	Decay of Non-Stationary Navier-Stokes Flow with Nonzero Dirichlet Boundary Data. Indiana University Mathematics Journal, 2017, 66, 2169-2185.	0.9	0
20	Initial Values for the Navier-Stokes Equations in Spaces with Weights in Time. Funkcialaj Ekvacioj, 2016, 59, 199-216.	0.3	14
21	Local Regularity Results for the Instationary Navier-Stokes Equations Based on Besov Space Type Criteria. Advances in Mathematical Fluid Mechanics, 2016, , 183-214.	0.1	2
22	Regularity criteria for weak solutions of the Navier-Stokes system in general unbounded domains. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 157-172.	1.1	4
23	Very weak solutions to the Navier-Stokes system in general unbounded domains. Journal of Evolution Equations, 2015, 15, 253-279.	1.1	9
24	Maximal regularity in exponentially weighted Lebesgue spaces of the Stokes operator in unbounded cylinders. Analysis (Germany), 2015, 35, 139-160.	0.4	2
25	Very weak solutions and the Fujita-Kato approach to the Navier-Stokes system in general unbounded domains. Nonlinear Differential Equations and Applications, 2015, 22, 1143-1165.	0.8	4
26	Existence of solutions on the whole time axis to the Navier-Stokes equations with precompact range in L^3 . Archiv Der Mathematik, 2015, 104, 539-550.	0.5	8
27	Uniqueness of Solutions on the Whole Time Axis to the Navier-Stokes Equations in Unbounded Domains. Communications in Partial Differential Equations, 2015, 40, 1884-1904.	2.2	6
28	Weak solutions of the Navier-Stokes equations with non-zero boundary values in an exterior domain satisfying the strong energy inequality. Journal of Differential Equations, 2014, 256, 2633-2658.	2.2	8
29	Besov Space Regularity Conditions for Weak Solutions of the Navier-Stokes Equations. Journal of Mathematical Fluid Mechanics, 2014, 16, 307-320.	1.0	9
30	On regularity of weak solutions to the instationary Navier-Stokes system: a review on recent results. Annali Dell'Universita Di Ferrara, 2014, 60, 91-122.	1.3	11
31	Optimal initial value conditions for local strong solutions of the Navier-Stokes equations in exterior domains. Analysis (Germany), 2013, 33, 101-120.	0.4	3
32	The fundamental solution of linearized nonstationary Navier-Stokes equations of motion around a rotating and translating body. Discrete and Continuous Dynamical Systems, 2013, 34, 511-529.	0.9	5
33	Uniqueness of backward asymptotically almost periodic-in-time solutions to Navier-Stokes equations in unbounded domains. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 1215-1224.	1.1	2
34	Extensions of Serrin's Uniqueness and Regularity Conditions for the Navier-Stokes Equations. Journal of Mathematical Fluid Mechanics, 2012, 14, 529-540.	1.0	15
35	Leray's inequality in general multi-connected domains in \mathbb{R}^n . Mathematische Annalen, 2012, 354, 137-145.	1.4	11
36	Uniqueness of almost periodic-in-time solutions to Navier-Stokes equations in unbounded domains. Journal of Evolution Equations, 2011, 11, 485-508.	1.1	11

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37	Asymptotic profile of steady Stokes flow around a rotating obstacle. <i>Manuscripta Mathematica</i> , 2011, 136, 315-338.	0.6	24
38	Leading term at infinity of steady Navier-Stokes flow around a rotating obstacle. <i>Mathematische Nachrichten</i> , 2011, 284, 2065-2077.	0.8	20
39	Necessary and sufficient conditions on local strong solvability of the Navier-Stokes system. <i>Applicable Analysis</i> , 2011, 90, 47-58.	1.3	8
40	Asymptotic structure of a Leray solution to the Navier-Stokes flow around a rotating body. <i>Pacific Journal of Mathematics</i> , 2011, 253, 367-382.	0.5	23
41	Spectral properties in L^q of an Oseen operator modelling fluid flow past a rotating body. <i>Tohoku Mathematical Journal</i> , 2010, 62, .	0.2	18
42	On the energy equality of Navier-Stokes equations in general unbounded domains. <i>Archiv Der Mathematik</i> , 2010, 95, 447-456.	0.5	17
43	Regularity of weak solutions to the Navier-Stokes equations in exterior domains. <i>Nonlinear Differential Equations and Applications</i> , 2010, 17, 303-321.	0.8	10
44	Periodic solutions of the Navier-Stokes equations with inhomogeneous boundary conditions. <i>Annali Dell'Universita Di Ferrara</i> , 2010, 56, 249-281.	1.3	19
45	On the existence of local strong solutions for the Navier-Stokes equations in completely general domains. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2010, 73, 1459-1465.	1.1	6
46	Regularity of Weak Solutions for the Navier-Stokes Equations Via Energy Criteria. , 2010, , 215-227.		4
47	On the stokes operator in general unbounded domains. <i>Hokkaido Mathematical Journal</i> , 2009, 38, .	0.3	29
48	On optimal initial value conditions for local strong solutions of the Navier-Stokes equations. <i>Annali Dell'Universita Di Ferrara</i> , 2009, 55, 89-110.	1.3	39
49	Asymptotic profiles of steady Stokes and Navier-Stokes flows around a rotating obstacle. <i>Annali Dell'Universita Di Ferrara</i> , 2009, 55, 263-277.	1.3	13
50	Optimal initial value conditions for the existence of local strong solutions of the Navier-Stokes equations. <i>Mathematische Annalen</i> , 2009, 345, 631-642.	1.4	26
51	Energy-Based Regularity Criteria for the Navier-Stokes Equations. <i>Journal of Mathematical Fluid Mechanics</i> , 2009, 11, 428-442.	1.0	17
52	On the Spectrum of an Oseen-Type Operator Arising from Flow past a Rotating Body. <i>Integral Equations and Operator Theory</i> , 2008, 62, 169-189.	0.8	19
53	Resolvent Estimates and Maximal Regularity in Weighted L^q -spaces of the Stokes Operator in an Infinite Cylinder. <i>Journal of Mathematical Fluid Mechanics</i> , 2008, 10, 352-387.	1.0	15
54	A weighted L^q -approach to Stokes flow around a rotating body. <i>Annali Dell'Universita Di Ferrara</i> , 2008, 54, 61-84.	1.3	17

#	ARTICLE	IF	CITATIONS
55	Very weak solutions of the Navier-Stokes equations in exterior domains with nonhomogeneous data. Journal of the Mathematical Society of Japan, 2007, 59, 127.	0.4	33
56	Stokes resolvent systems in an infinite cylinder. Mathematische Nachrichten, 2007, 280, 1061-1082.	0.8	7
57	Existence and exponential stability in L^r -spaces of stationary Navier-Stokes flows with prescribed flux in infinite cylindrical domains. Mathematical Methods in the Applied Sciences, 2007, 30, 171-199.	2.3	5
58	On the spectrum of a Stokes-type operator arising from flow around a rotating body. Manuscripta Mathematica, 2007, 122, 419-437.	0.6	45
59	On the Helmholtz decomposition in general unbounded domains. Archiv Der Mathematik, 2007, 88, 239-248.	0.5	48
60	The Resolvent Problem and H^{∞} -calculus of the Stokes Operator in Unbounded Cylinders with Several Exits to Infinity. Journal of Evolution Equations, 2007, 7, 497-528.	1.1	10
61	Maximal Regularity of the Stokes Operator in General Unbounded Domains of \mathbb{R}^n , 2007, , 257-272.		7
62	Stationary Navier-Stokes Flow Around a Rotating Obstacle. Funkcialaj Ekvacioj, 2007, 50, 371-403.	0.3	42
63	An L^q -theory of the generalized Stokes resolvent system in infinite cylinders. Studia Mathematica, 2007, 178, 197-216.	0.7	78
64	A New Class of Weak Solutions of the Navier-Stokes Equations with Nonhomogeneous Data. Journal of Mathematical Fluid Mechanics, 2006, 8, 423-444.	1.0	66
65	An L^q -analysis of viscous fluid flow past a rotating obstacle. Tohoku Mathematical Journal, 2006, 58, .	0.2	55
66	An L^q -approach to Stokes and Navier-Stokes equations in general domains. Acta Mathematica, 2005, 195, 21-53.	3.9	118
67	Very Weak Solutions of Stationary and Instationary Navier-Stokes Equations with Nonhomogeneous Data. , 2005, , 113-136.		16
68	L^q -theory of a singular winding integral operator arising from fluid dynamics. Pacific Journal of Mathematics, 2004, 215, 297-313.	0.5	61
69	Die (un-)berechenbare Angst des Mathematikers vor dem Fliegen. Mathematische Semesterberichte, 1999, 46, 155-185.	0.2	0
70	Weighted L^q -theory for the Stokes resolvent in exterior domains. Journal of the Mathematical Society of Japan, 1997, 49, 251.	0.4	72
71	Note on the flux condition and pressure drop in the resolvent problem of the Stokes system. Manuscripta Mathematica, 1996, 89, 139-158.	0.6	12
72	HELMHOLTZ DECOMPOSITION AND STOKES RESOLVENT SYSTEM FOR APERTURE DOMAINS IN L^q -SPACES. Analysis (Germany), 1996, 16, 1-26.	0.4	44

#	ARTICLE	IF	CITATIONS
73	Generalized resolvent estimates for the Stokes system in bounded and unbounded domains. Journal of the Mathematical Society of Japan, 1994, 46, 607.	0.4	148
74	On the Stokes and Navier-Stokes System for Domains with Noncompact Boundary in L^p - $W^{2,q}$ -spaces. Mathematische Nachrichten, 1994, 170, 53-77.	0.8	17
75	The stationary exterior 3 D-problem of Oseen and Navier-Stokes equations in anisotropically weighted Sobolev spaces. Mathematische Zeitschrift, 1992, 211, 409-447.	0.9	98
76	An L^2 approach to viscous flow in the half space with free elastic surface. Journal of Elliptic and Parabolic Equations, 0, , 1.	0.9	0
77	Estimates of lower order derivatives of viscous fluid flow past a rotating obstacle. , 0, , .		22
78	Criteria of local in time regularity of the Navier-Stokes equations beyond Serrin's condition. , 0, , .		8