

Yoshikazu Giga

List of Publications by Year in descending order

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116
papers

6,140
citations

159585

30
h-index

71685

76
g-index

121
all docs

121
docs citations

121
times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuity of Derivatives of a Convex Solution to a Perturbed One-Laplace Equation by p-Laplacian. Archive for Rational Mechanics and Analysis, 2022, 244, 253-292.	2.4	3
2	The hydrostatic approximation for the primitive equations by the scaled Navier–Stokes equations under the no-slip boundary condition. Journal of Evolution Equations, 2021, 21, 3331-3373.	1.1	1
3	The primitive equations in the scaling-invariant space $L^\infty(L^1)$. Journal of Evolution Equations, 2021, 21, 4145-4169.	1.1	1
4	Crystalline flow starting from a general polygon. Discrete and Continuous Dynamical Systems, 2021, .	0.9	2
5	Analyticity of solutions to the primitive equations. Mathematische Nachrichten, 2020, 293, 284-304.	0.8	14
6	Numerical computations of split Bregman method for fourth order total variation flow. Journal of Computational Physics, 2020, 405, 109114.	3.8	7
7	Viscosity solutions for the crystalline mean curvature flow with a nonuniform driving force term. SN Partial Differential Equations and Applications, 2020, 1, 1.	0.6	3
8	On boundary detachment phenomena for the total variation flow with dynamic boundary conditions. Journal of Differential Equations, 2020, 269, 10587-10629.	2.2	4
9	A new numerical scheme for discrete constrained total variation flows and its convergence. Numerische Mathematik, 2020, 146, 181-217.	1.9	1
10	The hydrostatic Stokes semigroup and well-posedness of the primitive equations on spaces of bounded functions. Journal of Functional Analysis, 2020, 279, 108561.	1.4	11
11	Rigorous justification of the hydrostatic approximation for the primitive equations by scaled Navier–Stokes equations*. Nonlinearity, 2020, 33, 6502-6516.	1.4	8
12	A duality based approach to the minimizing total variation flow in the space H^{-s} . Japan Journal of Industrial and Applied Mathematics, 2019, 36, 261-286.	0.9	13
13	Continuous alignment of vorticity direction prevents the blow-up of the Navier–Stokes flow under the no-slip boundary condition. Nonlinear Analysis: Theory, Methods & Applications, 2019, 189, 111579.	1.1	6
14	Strong time-periodic solutions to the bidomain equations with arbitrary large forces. Nonlinear Analysis: Real World Applications, 2019, 47, 398-413.	1.7	6
15	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
16	Vorticity Direction and Regularity of Solutions to the Navier-Stokes Equations. , 2018, , 901-932.		2
17	Analyticity of the Stokes semigroup in BMO -type spaces. Journal of the Mathematical Society of Japan, 2018, 70, .	0.4	5
18	Approximation of General Facets by Regular Facets with Respect to Anisotropic Total Variation Energies and Its Application to Crystalline Mean Curvature Flow. Communications on Pure and Applied Mathematics, 2018, 71, 1461-1491.	3.1	14

#	ARTICLE	IF	CITATIONS
19	On a resolvent estimate for bidomain operators and its applications. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 459, 528-555.	1.0	11
20	Equivalence of BMO-type Norms with Applications to the Heat and Stokes Semigroups. <i>Potential Analysis</i> , 2018, 49, 105-130.	0.9	7
21	On a dynamic boundary condition for singular degenerate parabolic equations in a half space. <i>Nonlinear Differential Equations and Applications</i> , 2018, 25, 1.	0.8	5
22	On analyticity of the \mathbb{S} -Stokes semigroup for some non-Helmholtz domains. <i>Mathematische Nachrichten</i> , 2017, 290, 2524-2546.	0.8	9
23	Well-posedness of Hamilton-Jacobi equations with Caputo's time fractional derivative. <i>Communications in Partial Differential Equations</i> , 2017, 42, 1088-1120.	2.2	39
24	Bounded \mathcal{H}^{∞} -calculus for the hydrostatic Stokes operator on \mathcal{H}^{∞} -spaces and applications. <i>Proceedings of the American Mathematical Society</i> , 2017, 145, 3865-3876.	0.8	11
25	Stability of a Two-Dimensional Poiseuille-Type Flow for a Viscoelastic Fluid. <i>Journal of Mathematical Fluid Mechanics</i> , 2017, 19, 17-45.	1.0	4
26	On the Stokes resolvent estimates for cylindrical domains. <i>Journal of Evolution Equations</i> , 2017, 17, 17-49.	1.1	3
27	On L^{∞} -BMO estimates for derivatives of the Stokes semigroup. <i>Mathematische Zeitschrift</i> , 2016, 284, 1163-1183.	0.9	9
28	On Asymptotic Speed of Solutions to Level-Set Mean Curvature Flow Equations with Driving and Source Terms. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 3515-3546.	1.9	8
29	Initial Values for the Navier-Stokes Equations in Spaces with Weights in Time. <i>Funkcialaj Ekvacioj</i> , 2016, 59, 199-216.	0.3	14
30	Vorticity Direction and Regularity of Solutions to the Navier-Stokes Equations. , 2016, , 1-31.		2
31	Bent rectangles as viscosity solutions over a circle. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 125, 518-549.	1.1	3
32	On the Stokes semigroup in some non-Helmholtz domains. <i>Archiv Der Mathematik</i> , 2015, 104, 177-187.	0.5	11
33	Uniform exponential stability of the Ekman spiral. <i>Arkiv for Matematik</i> , 2015, 53, 105-126.	0.5	2
34	Stokes Resolvent Estimates in Spaces of Bounded Functions. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 2015, 48, 537-559.	0.8	22
35	A counterexample to finite time stopping property for one-harmonic map flow. <i>Communications on Pure and Applied Analysis</i> , 2014, 14, 121-125.	0.8	2
36	A Liouville Theorem for the Planer Navier-Stokes Equations with the No-Slip Boundary Condition and Its Application to a Geometric Regularity Criterion. <i>Communications in Partial Differential Equations</i> , 2014, 39, 1906-1935.	2.2	21

#	ARTICLE	IF	CITATIONS
55	On time analyticity of the Navier–Stokes equations in a rotating frame with spatially almost periodic data. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 1422-1428.	2.8	11
56	Facet Bending in the Driven Crystalline Curvature Flow in the Plane. <i>Journal of Geometric Analysis</i> , 2008, 18, 109-147.	1.0	18
57	A microscopic time scale approximation to the behavior of the local slope on the faceted surface under a nonuniformity in supersaturation. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2845-2855.	2.8	15
58	Uniform global solvability of the rotating Navier-Stokes equations for nondecaying initial data. <i>Indiana University Mathematics Journal</i> , 2008, 57, 2775-2792.	0.9	55
59	Magnetic clusters and fold energies. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2007, 137, 23-40.	1.2	2
60	On the stability of the Ekman boundary layer. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1041101-1041102.	0.2	0
61	Rotating Navier-Stokes Equations in \mathbb{R}^3_+ with Initial Data Nondecreasing at Infinity: The Ekman Boundary Layer Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2007, 186, 177-224.	2.4	16
62	Navier-Stokes equations in a rotating frame in \mathbb{R}^3 with initial data nondecreasing at infinity. <i>Hokkaido Mathematical Journal</i> , 2006, 35, 321.	0.3	31
63	On blow-up at space infinity for semilinear heat equations. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 316, 538-555.	1.0	31
64	Stability of facets of crystals growing from vapor. <i>Discrete and Continuous Dynamical Systems</i> , 2006, 14, 689-706.	0.9	11
65	Self-similar Expanding Solutions in a Sector for a Crystalline Flow. <i>SIAM Journal on Mathematical Analysis</i> , 2005, 37, 1207-1226.	1.9	15
66	An Existence Result for a Discretized Constrained Gradient System of Total Variation Flow in Color Image Processing. <i>Interdisciplinary Information Sciences</i> , 2005, 11, 199-204.	0.4	6
67	Uniform Local Solvability for the Navier-Stokes Equations with the Coriolis Force. <i>Methods and Applications of Analysis</i> , 2005, 12, 381-394.	0.5	29
68	Local solvability of a constrained gradient system of total variation. <i>Abstract and Applied Analysis</i> , 2004, 2004, 651-682.	0.7	24
69	On blow-up rate for sign-changing solutions in a convex domain. <i>Mathematical Methods in the Applied Sciences</i> , 2004, 27, 1771-1782.	2.3	29
70	Anisotropic curvature flow in a very thin domain. <i>Indiana University Mathematics Journal</i> , 2003, 52, 257-282.	0.9	4
71	Viscosity solutions with shocks. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 431-480.	3.1	14
72	On a limiting motion and self-intersections for the intermediate surface diffusion flow. <i>Journal of Evolution Equations</i> , 2002, 2, 349-364.	1.1	10

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73	A LEVEL SET APPROACH TO SEMICONTINUOUS VISCOSITY SOLUTIONS FOR CAUCHY PROBLEMS. Communications in Partial Differential Equations, 2001, 26, 813-839.	2.2	27
74	Generalized Motion by Nonlocal Curvature in the Plane. Archive for Rational Mechanics and Analysis, 2001, 159, 295-333.	2.4	49
75	On anisotropy and curvature effects for growing Crystals. Japan Journal of Industrial and Applied Mathematics, 2001, 18, 207-230.	0.9	23
76	On the motion by singular interfacial energy. Japan Journal of Industrial and Applied Mathematics, 2001, 18, 231-248.	0.9	14
77	On lower semicontinuity of a defect energy obtained by a singular limit of the Ginzburg-Landau type energy for gradient fields. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1999, 129, 1-17.	1.2	63
78	Stability for evolving graphs by nonlocal weighted curvature. Communications in Partial Differential Equations, 1999, 24, 109-184.	2.2	26
79	On estimates in Hardy spaces for the Stokes flow in a half space. Mathematische Zeitschrift, 1999, 231, 383-396.	0.9	42
80	On the dynamics of crystalline motions. Japan Journal of Industrial and Applied Mathematics, 1998, 15, 7-50.	0.9	23
81	Evolving Graphs by Singular Weighted Curvature. Archive for Rational Mechanics and Analysis, 1998, 141, 117-198.	2.4	67
82	The distance function and defect energy. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1996, 126, 923-938.	1.2	27
83	Existence of selfsimilar shrinking curves for anisotropic curvature flow equations. Calculus of Variations and Partial Differential Equations, 1996, 4, 103-119.	1.7	19
84	A comparison theorem for crystalline evolution in the plane. Quarterly of Applied Mathematics, 1996, 54, 727-737.	0.7	29
85	Existence of selfsimilar shrinking curves for anisotropic curvature flow equations. Calculus of Variations and Partial Differential Equations, 1996, 4, 103-119.	1.7	0
86	Mean curvature flow through singularities for surfaces of rotation. Journal of Geometric Analysis, 1995, 5, 293-358.	1.0	97
87	On Global Weak Solutions of the Nonstationary Two-Phase Stokes Flow. SIAM Journal on Mathematical Analysis, 1994, 25, 876-893.	1.9	32
88	On a lower bound for the extinction time of surfaces moved by mean curvature. Calculus of Variations and Partial Differential Equations, 1993, 1, 417-428.	1.7	15
89	A bound for the pressure integral in a plasma equilibrium. Journal of Statistical Physics, 1993, 72, 1375-1389.	1.2	0
90	Global Existence of Weak Solutions for Interface Equations Coupled with Diffusion Equations. SIAM Journal on Mathematical Analysis, 1992, 23, 821-835.	1.9	29

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91	Motion of hypersurfaces and geometric equations. Journal of the Mathematical Society of Japan, 1992, 44, 99.	0.4	56
92	Uniqueness and existence of viscosity solutions of generalized mean curvature flow equations. Journal of Differential Geometry, 1991, 33, 749.	1.1	644
93	Abstract L_p estimates for the Cauchy problem with applications to the Navier-Stokes equations in exterior domains. Journal of Functional Analysis, 1991, 102, 72-94.	1.4	438
94	Variational integrals on mappings of bounded variation and their lower semicontinuity. Archive for Rational Mechanics and Analysis, 1991, 115, 201-255.	2.4	26
95	Remarks on spectra of operator rot. Mathematische Zeitschrift, 1990, 204, 235-245.	0.9	191
96	Nondegeneracy of blowup for semilinear heat equations. Communications on Pure and Applied Mathematics, 1989, 42, 845-884.	3.1	246
97	Navier-stokes flow in \mathbb{R}^3 with measures as initial vorticity and Morrey spaces. Communications in Partial Differential Equations, 1989, 14, 577-618.	2.2	206
98	Large time behavior of the vorticity of two-dimensional viscous flow and its application to vortex formation. Communications in Mathematical Physics, 1988, 117, 549-568.	2.2	69
99	Two-dimensional Navier-Stokes flow with measures as initial vorticity. Archive for Rational Mechanics and Analysis, 1988, 104, 223-250.	2.4	131
100	Title is missing!. Indiana University Mathematics Journal, 1987, 36, 1.	0.9	281
101	A bound for global solutions of semilinear heat equations. Communications in Mathematical Physics, 1986, 103, 415-421.	2.2	127
102	Solutions for semilinear parabolic equations in L_p and regularity of weak solutions of the Navier-Stokes system. Journal of Differential Equations, 1986, 62, 186-212.	2.2	630
103	Domains of fractional powers of the Stokes operator in L_r spaces. Archive for Rational Mechanics and Analysis, 1985, 89, 251-265.	2.4	176
104	Solutions in L_r of the Navier-Stokes initial value problem. Archive for Rational Mechanics and Analysis, 1985, 89, 267-281.	2.4	312
105	Asymptotically self-similar blow-up of semilinear heat equations. Communications on Pure and Applied Mathematics, 1985, 38, 297-319.	3.1	459
106	On the Ohm-Navier-Stokes system in magnetohydrodynamics. Journal of Mathematical Physics, 1983, 24, 2860-2864.	1.1	30
107	Time and spatial analyticity of solutions of the Navier-Stokes equations. Communications in Partial Differential Equations, 1983, 8, 929-948.	2.2	29
108	A kinetic construction of global solutions of first order quasilinear equations. Duke Mathematical Journal, 1983, 50, 505.	1.5	66

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109	Weak and Strong Solutions of the Navier-Stokes Initial Value Problem. Publications of the Research Institute for Mathematical Sciences, 1983, 19, 887-910.	0.8	31
110	The Stokes operator in L_r spaces. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1981, 57, 85.	0.4	42
111	Analyticity of the semigroup generated by the Stokes operator in L_r spaces. Mathematische Zeitschrift, 1981, 178, 297-329.	0.9	308
112	Very Singular Diffusion Equations. , 0, , .		18
113	A PDE Approach for Motion of Phase-Boundaries by a Singular Interfacial Energy. , 0, , .		2
114	Normal Trace for a Vector Field of Bounded Mean Oscillation. Potential Analysis, 0, , 1.	0.9	2
115	The Helmholtz decomposition of a space of vector fields with bounded mean oscillation in a bounded domain. Mathematische Annalen, 0, , 1.	1.4	3
116	Motion by Crystalline-Like Mean Curvature: A Survey. Bulletin of Mathematical Sciences, 0, , .	0.7	5