Hitoshi Ishii

List of Publications by Year
in descending order

95 papers	6,742 citations	147801 31 h-index	60623 81 g-index
97 all docs	97 docs citations	97 times ranked	1579 citing authors

#	Article	IF	Citations
1	Existence through convexity for the truncated Laplacians. Mathematische Annalen, 2021, 379, 909-950.	1.4	6
2	The vanishing discount problem for monotone systems of Hamilton-Jacobi equations. Part 1: linear coupling. Mathematics in Engineering, 2021, 3, 1-21.	0.9	4
3	Averaging of Hamilton-Jacobi equations along divergence-free vector fields. Discrete and Continuous Dynamical Systems, 2021, 41, 1519-1542.	0.9	0
4	Existence and Uniqueness of Viscosity Solutions of an Integro-differential Equation Arising in Option Pricing. SIAM Journal on Financial Mathematics, 2021, 12, 604-640.	1.3	1
5	Positivity sets of supersolutions of degenerate elliptic equations and the strong maximum principle. Transactions of the American Mathematical Society, 2021, 374, 539-564.	0.9	2
6	The vanishing discount problem for monotone systems of Hamilton–Jacobi equations: part 2—nonlinear coupling. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	1.7	5
7	The vanishing discount problem for Hamilton–Jacobi equations in the Euclidean space. Communications in Partial Differential Equations, 2020, 45, 525-560.	2.2	12
8	Vanishing contact structure problem and convergence of the viscosity solutions. Communications in Partial Differential Equations, 2019, 44, 801-836.	2.2	20
9	Towards a reversed Faber–Krahn inequality for the truncated Laplacian. Revista Matematica Iberoamericana, 2019, 36, 723-740.	0.9	6
10	A family of degenerate elliptic operators: Maximum principle and its consequences. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2018, 35, 417-441.	1.4	29
11	The vanishing discount problem and viscosity Mather measures. Part 1: The problem on a torus. Journal Des Mathematiques Pures Et Appliquees, 2017, 108, 125-149.	1.6	45
12	On Viscosity Solution of HJB Equations with State Constraints and Reflection Control. SIAM Journal on Control and Optimization, 2017, 55, 365-396.	2.1	3
13	On the Langevin equation with variable friction. Calculus of Variations and Partial Differential Equations, 2017, 56, 1.	1.7	0
14	The vanishing discount problem and viscosity Mather measures. Part 2: Boundary value problems. Journal Des Mathematiques Pures Et Appliquees, 2017, 108, 261-305.	1.6	37
15	Metastability for parabolic equations with drift: part II. The quasilinear case. Indiana University Mathematics Journal, 2017, 66, 315-360.	0.9	2
16	A convergence result for the ergodic problem for Hamilton–Jacobi equations with Neumann-type boundary conditions. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2016, 146, 225-242.	1.2	31
17	Eigenvalue problem for fully nonlinear second-order elliptic PDE on balls, II. Bulletin of Mathematical Sciences, 2015, 5, 451-510.	0.7	4
18	Metastability for parabolic equations with drift: part 1. Indiana University Mathematics Journal, 2015, 64, 875-913.	0.9	4

#	Article	IF	Citations
19	Asymptotic analysis for the eikonal equation with the dynamical boundary conditions. Mathematische Nachrichten, 2014, 287, 1563-1588.	0.8	8
20	A new PDE approach to the large time asymptotics of solutions of Hamilton–Jacobi equations. Bulletin of Mathematical Sciences, 2013, 3, 363-388.	0.7	14
21	Hamilton-Jacobi Equations: Approximations, Numerical Analysis and Applications. Lecture Notes in Mathematics, 2013, , .	0.2	28
22	A Short Introduction to Viscosity Solutions and the Large Time Behavior of Solutions of Hamilton–Jacobi Equations. Lecture Notes in Mathematics, 2013, , 111-249.	0.2	17
23	Eigenvalue problem for fully nonlinear second-order elliptic PDE on balls. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2012, 29, 783-812.	1.4	9
24	On the Large Time Behavior of Solutions of Hamilton–Jacobi Equations Associated with Nonlinear Boundary Conditions. Archive for Rational Mechanics and Analysis, 2012, 204, 515-558.	2.4	14
25	A pde approach to small stochastic perturbations of Hamiltonian flows. Journal of Differential Equations, 2012, 252, 1748-1775.	2.2	7
26	Long-time asymptotic solutions of convex Hamilton-Jacobi equations with Neumann type boundary conditions. Calculus of Variations and Partial Differential Equations, 2011, 42, 189-209.	1.7	13
27	Weak KAM aspects of convex Hamilton–Jacobi equations with Neumann type boundary conditions. Journal Des Mathematiques Pures Et Appliquees, 2011, 95, 99-135.	1.6	18
28	A class of integral equations and approximation of p-Laplace equations. Calculus of Variations and Partial Differential Equations, 2010, 37, 485-522.	1.7	65
29	Non-Local Hamilton-Jacobi Equations Arising in Dislocation Dynamics. Zeitschrift Fur Analysis Und Ihre Anwendung, 2010, 29, 309-350.	0.6	1
30	TWO REMARKS ON PERIODIC SOLUTIONS OF HAMILTON-JACOBI EQUATIONS. , 2009, , .		0
31	Long-time Behavior of Solutions of Hamilton–Jacobi Equations with Convex and Coercive Hamiltonians. Archive for Rational Mechanics and Analysis, 2009, 194, 383-419.	2.4	27
32	Asymptotic solutions for large time of Hamilton–Jacobi equations in Euclidean n space. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2008, 25, 231-266.	1.4	72
33	Asymptotic Solutions of Hamilton–Jacobi Equations with Semi-Periodic Hamiltonians. Communications in Partial Differential Equations, 2008, 33, 784-807.	2.2	21
34	SDEs with oblique reflections on nonsmooth domains. Annals of Probability, 2008, 36, .	1.8	7
35	The Large-time Behavior of Solutions of Hamilton-Jacobi Equations on the Real Line. Methods and Applications of Analysis, 2008, 15, 223-242.	0.5	13
36	Representation formulas for solutions of Hamilton-Jacobi equations with convex Hamiltonians. Indiana University Mathematics Journal, 2007, 56, 2159-2184.	0.9	33

#	Article	IF	Citations
37	Asymptotic Solutions of Viscous Hamilton–Jacobi Equations with Ornstein–Uhlenbeck Operator. Communications in Partial Differential Equations, 2006, 31, 827-848.	2.2	25
38	Asymptotic solutions of Hamilton-Jacobi equations in Euclidean n space. Indiana University Mathematics Journal, 2006, 55, 1671-1700.	0.9	32
39	Limits of Solutions of p-Laplace Equations as p Goes to Infinity and Related Variational Problems. SIAM Journal on Mathematical Analysis, 2005, 37, 411-437.	1.9	23
40	Motion of a Graph by R -Curvature. Archive for Rational Mechanics and Analysis, 2004, 171, 1-23.	2.4	4
41	Nonlinear oblique derivative problems for singular degenerate parabolic equations on a general domain. Nonlinear Analysis: Theory, Methods & Applications, 2004, 57, 1077-1098.	1.1	22
42	Convexified Gauss Curvature flow of Sets: A Stochastic Approximation. SIAM Journal on Mathematical Analysis, 2004, 36, 552-579.	1.9	3
43	Relaxation of Hamilton-Jacobi Equations. Archive for Rational Mechanics and Analysis, 2003, 169, 265-304.	2.4	3
44	A level set approach to the wearing process of a nonconvex stone. Calculus of Variations and Partial Differential Equations, 2003, 19, 53-93.	1.7	6
45	Relaxation in an L^∞-optimization problem. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2003, 133, 599-615.	1.2	5
46	Asymptotic Analysis for a Class of Infinite Systems of First-Order PDE: Nonlinear Parabolic PDE in the Singular Limit. Communications in Partial Differential Equations, 2003, 28, 409-438.	2.2	3
47	Simultaneous Effects of Homogenization and Vanishing Viscosity in Fully Nonlinear Elliptic Equations. Funkcialaj Ekvacioj, 2003, 46, 63-88.	0.3	8
48	A class of stochastic optimal control problems with state constraint. Indiana University Mathematics Journal, 2002, 51, 1167-1196.	0.9	18
49	A two-dimensional random crystalline algorithm for Gauss curvature flow. Advances in Applied Probability, 2002, 34, 491-504.	0.7	4
50	HAMILTON-JACOBI EQUATIONS WITH PARTIAL GRADIENT AND APPLICATION TO HOMOGENIZATION. Communications in Partial Differential Equations, 2001, 26, 983-1002.	2.2	13
51	A generalization of a theorem of Barron and Jensen and a comparison theorem for lower semicontinuous viscosity solutions. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2001, 131, 137-154.	1.2	7
52	A Mathematical Model of the Wearing Process of a Nonconvex Stone. SIAM Journal on Mathematical Analysis, 2001, 33, 860-876.	1.9	9
53	An Approximation Scheme for Motion by Mean Curvature with Right-Angle Boundary Condition. SIAM Journal on Mathematical Analysis, 2001, 33, 369-389.	1.9	3
54	On μ -optimal controls for state constraint problems. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2000, 17, 473-502.	1.4	4

#	ARTICLE	IF	CITATIONS
55	A Characterization of the Existence of Solutions for Hamilton—Jacobi Equations in Ergodic Control Problems with Applications. Applied Mathematics and Optimization, 2000, 42, 35-50.	1.6	7
56	A PDE approach to stochastic invariance. Discrete and Continuous Dynamical Systems, 2000, 6, 651-664.	0.9	0
57	Threshold dynamics type approximation schemes for propagating fronts. Journal of the Mathematical Society of Japan, 1999, 51, 267.	0.4	50
58	Homogenization of Hamilton-Jacobi equations on domains with small scale periodic structure. Indiana University Mathematics Journal, 1998, 47, 0-0.	0.9	17
59	Some properties of ergodic attractors for controlled dynamical systems. Discrete and Continuous Dynamical Systems, 1998, 4, 43-54.	0.9	2
60	Comparison results for hamilton-jacobi equations without grwoth condition on solutions from above. Applicable Analysis, 1997, 67, 357-372.	1.3	18
61	A New Formulation of State Constraint Problems for First-Order PDEs. SIAM Journal on Control and Optimization, 1996, 34, 554-571.	2.1	54
62	Generalized motion of noncompact hypersurfaces with velocity having arbitrary growth on the curvature tensor. Tohoku Mathematical Journal, 1995, 47, 227.	0.2	80
63	Uniqueness results for a class of hamilton-jacobi equations with singular coefficients. Communications in Partial Differential Equations, 1995, 20, 2187-2213.	2.2	35
64	SDEs with Oblique Reflection on Nonsmooth Domains. Annals of Probability, 1993, 21, 554.	1.8	117
65	Viscosity solutions of nonlinear second-order partial differential equations in hilbert spaces. Communications in Partial Differential Equations, 1993, 18, 601-650.	2.2	21
66	Global Existence of Weak Solutions for Interface Equations Coupled with Diffusion Equations. SIAM Journal on Mathematical Analysis, 1992, 23, 821-835.	1.9	29
67	User's guide to viscosity solutions of second order partial differential equations. Bulletin of the American Mathematical Society, 1992, 27, 1-67.	1.5	3,288
68	Viscosity solutions for a class of Hamilton-Jacobi equations in Hilbert spaces. Journal of Functional Analysis, 1992, 105, 301-341.	1.4	45
69	On lipschitz continuity of the solution mapping to the skorokhod problem, with applications. Stochastic and Stochastics Reports, 1991, 35, 31-62.	0.6	181
70	On oblique derivative problems for fully nonlinear second-order elliptic PDE's on domains with corners. Hokkaido Mathematical Journal, 1991, 20, 135.	0.3	35
71	Remarks on elliptic singular perturbation problems. Applied Mathematics and Optimization, 1991, 23, 1-15.	1.6	19
72	Fully nonlinear oblique derivative problems for nonlinear second-order elliptic PDE's. Duke Mathematical Journal, 1991, 62, .	1.5	40

#	Article	IF	Citations
73	Viscosity solutions for monotone systems of second–order elliptic PDES. Communications in Partial Differential Equations, 1991, 16, 1095-1128.	2.2	99
74	Viscosity solutions of fully nonlinear second-order elliptic partial differential equations. Journal of Differential Equations, 1990, 83, 26-78.	2.2	389
75	On oblique derivative problems for fully nonlinear second-order elliptic partial differential equations on nonsmooth domains. Nonlinear Analysis: Theory, Methods & Applications, 1990, 15, 1123-1138.	1.1	29
76	A Viscosity Solution Approach to the Asymptotic Analysis of Queueing Systems. Annals of Probability, 1990, 18, .	1.8	43
77	On uniqueness and existence of viscosity solutions of fully nonlinear second-order elliptic PDE's. Communications on Pure and Applied Mathematics, 1989, 42, 15-45.	3.1	241
78	A remark on a system of inequalities with bilateral obstacles. Nonlinear Analysis: Theory, Methods & Applications, 1989, 13, 1295-1301.	1.1	2
79	The Bellman equation for minimizing the maximum cost. Nonlinear Analysis: Theory, Methods & Applications, 1989, 13, 1067-1090.	1.1	102
80	Representation of solutions of Hamilton-Jacobi equations. Nonlinear Analysis: Theory, Methods & Applications, 1988, 12, 121-146.	1.1	36
81	Perron's method for Hamilton-Jacobi equations. Duke Mathematical Journal, 1987, 55, 369.	1.5	302
82	Uniqueness of viscosity solutions of Hamilton-Jacobi equations revisited. Journal of the Mathematical Society of Japan, 1987, 39, 581.	0.4	78
83	A simple, direct proof of uniqueness for solutions of the Hamilton-Jacobi equations of eikonal type. Proceedings of the American Mathematical Society, 1987, 100, 247-247.	0.8	80
84	On Representation of Solutions of Hamilton-Jacobi Equations with Convex Hamiltonians. North-Holland Mathematics Studies, 1985, 128, 15-52.	0.2	7
85	Approximate solutions of the bellman equation of deterministic control theory. Applied Mathematics and Optimization, 1984, 11, 161-181.	1.6	128
86	Differential games and nonlinear first order PDE on bounded domains. Manuscripta Mathematica, 1984, 49, 109-139.	0.6	31
87	Title is missing!. Indiana University Mathematics Journal, 1984, 33, 721.	0.9	150
88	Boundary regularity and uniqueness for an elliptic equations with gradient constraint. Communications in Partial Differential Equations, 1983, 8, 317-346.	2.2	35
89	Global stability of stationary solutions to a nonlinear diffusion equation in phytoplankton dynamics. Journal of Mathematical Biology, 1982, 16, 1-24.	1.9	38
90	On the existence of almost periodic complete trajectories for contractive almost periodic processes. Journal of Differential Equations, 1982, 43, 66-72.	2.2	19

#	Article	IF	Citations
91	On a certain estimate of the free boundary in the Stefan problem. Journal of Differential Equations, 1981, 42, 106-115.	2.2	10
92	Asymptotic stability and blowing up of solutions of some nonlinear equations. Journal of Differential Equations, 1977, 26, 291-319.	2.2	98
93	Some Uniqueness Theorems for First Order Hyperbolic Systems. Publications of the Research Institute for Mathematical Sciences, 1975, 11, 403-415.	0.8	0
94	Discrete approximation of the viscous HJ equation. Stochastics and Partial Differential Equations: Analysis and Computations, 0, , 1.	0.9	1
95	Hamilton–Jacobi equations with their Hamiltonians depending Lipschitz continuously on the unknown. Communications in Partial Differential Equations, 0, , 1-36.	2.2	1