

# Hitoshi Ishii

## List of Publications by Year in descending order

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95  
papers

6,742  
citations

147566

31  
h-index

62479

80  
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. <i>Mathematische Annalen</i> , 2021, 379, 909-950.  | 0.7 | 6         |
| 2  | The vanishing discount problem for monotone systems of Hamilton-Jacobi equations. Part 1: linear coupling. <i>Mathematics in Engineering</i> , 2021, 3, 1-21.   | 0.5 | 4         |
| 3  | Averaging of Hamilton-Jacobi equations along divergence-free vector fields. <i>Discrete and Continuous Dynamical Systems</i> , 2021, 41, 1519-1542.   | 0.5 | 0         |
| 4  | Existence and Uniqueness of Viscosity Solutions of an Integro-differential Equation Arising in Option Pricing. <i>SIAM Journal on Financial Mathematics</i> , 2021, 12, 604-640.                                    | 0.7 | 1         |
| 5  | Positivity sets of supersolutions of degenerate elliptic equations and the strong maximum principle. <i>Transactions of the American Mathematical Society</i> , 2021, 374, 539-564.                                 | 0.5 | 2         |
| 6  | The vanishing discount problem for monotone systems of Hamilton-Jacobi equations: part 2: nonlinear coupling. <i>Calculus of Variations and Partial Differential Equations</i> , 2020, 59, 1.                       | 0.9 | 5         |
| 7  | The vanishing discount problem for Hamilton-Jacobi equations in the Euclidean space. <i>Communications in Partial Differential Equations</i> , 2020, 45, 525-560.   | 1.0 | 12        |
| 8  | Vanishing contact structure problem and convergence of the viscosity solutions. <i>Communications in Partial Differential Equations</i> , 2019, 44, 801-836.  | 1.0 | 20        |
| 9  | Towards a reversed Faber-Krahn inequality for the truncated Laplacian. <i>Revista Matematica Iberoamericana</i> , 2019, 36, 723-740.  | 0.4 | 6         |
| 10 | A family of degenerate elliptic operators: Maximum principle and its consequences. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2018, 35, 417-441.  | 0.7 | 29        |
| 11 | The vanishing discount problem and viscosity Mather measures. Part 1: The problem on a torus. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2017, 108, 125-149.  | 0.8 | 45        |
| 12 | On Viscosity Solution of HJB Equations with State Constraints and Reflection Control. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 365-396.  | 1.1 | 3         |
| 13 | On the Langevin equation with variable friction. <i>Calculus of Variations and Partial Differential Equations</i> , 2017, 56, 1.  | 0.9 | 0         |
| 14 | The vanishing discount problem and viscosity Mather measures. Part 2: Boundary value problems. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2017, 108, 261-305.   | 0.8 | 37        |
| 15 | Metastability for parabolic equations with drift: part II. The quasilinear case. <i>Indiana University Mathematics Journal</i> , 2017, 66, 315-360.   | 0.4 | 2         |
| 16 | A convergence result for the ergodic problem for Hamilton-Jacobi equations with Neumann-type boundary conditions. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2016, 146, 225-242. | 0.8 | 31        |
| 17 | Eigenvalue problem for fully nonlinear second-order elliptic PDE on balls, II. <i>Bulletin of Mathematical Sciences</i> , 2015, 5, 451-510.   | 0.5 | 4         |
| 18 | Metastability for parabolic equations with drift: part 1. <i>Indiana University Mathematics Journal</i> , 2015, 64, 875-913.  | 0.4 | 4         |

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|----|---|-----|-----------|
| 19 | Asymptotic analysis for the eikonal equation with the dynamical boundary conditions. <i>Mathematische Nachrichten</i> , 2014, 287, 1563-1588.   | 0.4 | 8         |
| 20 | A new PDE approach to the large time asymptotics of solutions of Hamilton-Jacobi equations. <i>Bulletin of Mathematical Sciences</i> , 2013, 3, 363-388.  | 0.5 | 14        |
| 21 | Hamilton-Jacobi Equations: Approximations, Numerical Analysis and Applications. <i>Lecture Notes in Mathematics</i> , 2013, , .   | 0.1 | 28        |
| 22 | A Short Introduction to Viscosity Solutions and the Large Time Behavior of Solutions of Hamilton-Jacobi Equations. <i>Lecture Notes in Mathematics</i> , 2013, , 111-249.                       | 0.1 | 17        |
| 23 | Eigenvalue problem for fully nonlinear second-order elliptic PDE on balls. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2012, 29, 783-812.                            | 0.7 | 9         |
| 24 | On the Large Time Behavior of Solutions of Hamilton-Jacobi Equations Associated with Nonlinear Boundary Conditions. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 204, 515-558.    | 1.1 | 14        |
| 25 | A pde approach to small stochastic perturbations of Hamiltonian flows. <i>Journal of Differential Equations</i> , 2012, 252, 1748-1775.   | 1.1 | 7         |
| 26 | Long-time asymptotic solutions of convex Hamilton-Jacobi equations with Neumann type boundary conditions. <i>Calculus of Variations and Partial Differential Equations</i> , 2011, 42, 189-209. | 0.9 | 13        |
| 27 | Weak KAM aspects of convex Hamilton-Jacobi equations with Neumann type boundary conditions. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2011, 95, 99-135.                            | 0.8 | 18        |
| 28 | A class of integral equations and approximation of p-Laplace equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2010, 37, 485-522.                                   | 0.9 | 65        |
| 29 | Non-Local Hamilton-Jacobi Equations Arising in Dislocation Dynamics. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2010, 29, 309-350.  | 0.8 | 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. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 383-419.                    | 1.1 | 27        |
| 32 | Asymptotic solutions for large time of Hamilton-Jacobi equations in Euclidean n space. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2008, 25, 231-266.                | 0.7 | 72        |
| 33 | Asymptotic Solutions of Hamilton-Jacobi Equations with Semi-Periodic Hamiltonians. <i>Communications in Partial Differential Equations</i> , 2008, 33, 784-807.                                 | 1.0 | 21        |
| 34 | SDEs with oblique reflections on nonsmooth domains. <i>Annals of Probability</i> , 2008, 36, .  | 0.8 | 7         |
| 35 | The Large-time Behavior of Solutions of Hamilton-Jacobi Equations on the Real Line. <i>Methods and Applications of Analysis</i> , 2008, 15, 223-242.  | 0.1 | 13        |
| 36 | Representation formulas for solutions of Hamilton-Jacobi equations with convex Hamiltonians. <i>Indiana University Mathematics Journal</i> , 2007, 56, 2159-2184.                               | 0.4 | 33        |

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|----|---|-----|-----------|
| 37 | Asymptotic Solutions of Viscous Hamilton-Jacobi Equations with Ornstein-Uhlenbeck Operator. Communications in Partial Differential Equations, 2006, 31, 827-848.  | 1.0 | 25        |
| 38 | Asymptotic solutions of Hamilton-Jacobi equations in Euclidean $\mathbb{R}^n$ space. Indiana University Mathematics Journal, 2006, 55, 1671-1700.   | 0.4 | 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.  | 0.9 | 23        |
| 40 | Motion of a Graph by R-Curvature. Archive for Rational Mechanics and Analysis, 2004, 171, 1-23.   | 1.1 | 4         |
| 41 | Nonlinear oblique derivative problems for singular degenerate parabolic equations on a general domain. Nonlinear Analysis: Theory, Methods & Applications, 2004, 57, 1077-1098.                                     | 0.6 | 22        |
| 42 | Convexified Gauss Curvature flow of Sets: A Stochastic Approximation. SIAM Journal on Mathematical Analysis, 2004, 36, 552-579.   | 0.9 | 3         |
| 43 | Relaxation of Hamilton-Jacobi Equations. Archive for Rational Mechanics and Analysis, 2003, 169, 265-304.   | 1.1 | 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.   | 0.9 | 6         |
| 45 | Relaxation in an $L^\infty$ -optimization problem. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2003, 133, 599-615.  | 0.8 | 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.                         | 1.0 | 3         |
| 47 | Simultaneous Effects of Homogenization and Vanishing Viscosity in Fully Nonlinear Elliptic Equations. Funkcialaj Ekvacioj, 2003, 46, 63-88.   | 0.2 | 8         |
| 48 | A class of stochastic optimal control problems with state constraint. Indiana University Mathematics Journal, 2002, 51, 1167-1196.  | 0.4 | 18        |
| 49 | A two-dimensional random crystalline algorithm for Gauss curvature flow. Advances in Applied Probability, 2002, 34, 491-504.  | 0.4 | 4         |
| 50 | HAMILTON-JACOBI EQUATIONS WITH PARTIAL GRADIENT AND APPLICATION TO HOMOGENIZATION. Communications in Partial Differential Equations, 2001, 26, 983-1002.  | 1.0 | 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. | 0.8 | 7         |
| 52 | A Mathematical Model of the Wearing Process of a Nonconvex Stone. SIAM Journal on Mathematical Analysis, 2001, 33, 860-876.   | 0.9 | 9         |
| 53 | An Approximation Scheme for Motion by Mean Curvature with Right-Angle Boundary Condition. SIAM Journal on Mathematical Analysis, 2001, 33, 369-389.   | 0.9 | 3         |
| 54 | On $\hat{\mu}$ -optimal controls for state constraint problems. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2000, 17, 473-502.   | 0.7 | 4         |

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|----|--|-----|-----------|
| 55 | A Characterization of the Existence of Solutions for Hamilton–Jacobi Equations in Ergodic Control Problems with Applications. <i>Applied Mathematics and Optimization</i> , 2000, 42, 35-50. | 0.8 | 7         |
| 56 | A PDE approach to stochastic invariance. <i>Discrete and Continuous Dynamical Systems</i> , 2000, 6, 651-664.  | 0.5 | 0         |
| 57 | Threshold dynamics type approximation schemes for propagating fronts. <i>Journal of the Mathematical Society of Japan</i> , 1999, 51, 267.   | 0.3 | 50        |
| 58 | Homogenization of Hamilton-Jacobi equations on domains with small scale periodic structure. <i>Indiana University Mathematics Journal</i> , 1998, 47, 0-0.                                   | 0.4 | 17        |
| 59 | Some properties of ergodic attractors for controlled dynamical systems. <i>Discrete and Continuous Dynamical Systems</i> , 1998, 4, 43-54.   | 0.5 | 2         |
| 60 | Comparison results for hamilton-jacobi equations without growth condition on solutions from above. <i>Applicable Analysis</i> , 1997, 67, 357-372.   | 0.6 | 18        |
| 61 | A New Formulation of State Constraint Problems for First-Order PDEs. <i>SIAM Journal on Control and Optimization</i> , 1996, 34, 554-571.  | 1.1 | 54        |
| 62 | Generalized motion of noncompact hypersurfaces with velocity having arbitrary growth on the curvature tensor. <i>Tohoku Mathematical Journal</i> , 1995, 47, 227.                            | 0.4 | 80        |
| 63 | Uniqueness results for a class of hamilton-jacobi equations with singular coefficients. <i>Communications in Partial Differential Equations</i> , 1995, 20, 2187-2213.                       | 1.0 | 35        |
| 64 | SDEs with Oblique Reflection on Nonsmooth Domains. <i>Annals of Probability</i> , 1993, 21, 554.   | 0.8 | 117       |
| 65 | Viscosity solutions of nonlinear second-order partial differential equations in hilbert spaces. <i>Communications in Partial Differential Equations</i> , 1993, 18, 601-650.                 | 1.0 | 21        |
| 66 | Global Existence of Weak Solutions for Interface Equations Coupled with Diffusion Equations. <i>SIAM Journal on Mathematical Analysis</i> , 1992, 23, 821-835.                               | 0.9 | 29        |
| 67 | User’s guide to viscosity solutions of second order partial differential equations. <i>Bulletin of the American Mathematical Society</i> , 1992, 27, 1-67.                                   | 0.8 | 3,288     |
| 68 | Viscosity solutions for a class of Hamilton-Jacobi equations in Hilbert spaces. <i>Journal of Functional Analysis</i> , 1992, 105, 301-341.  | 0.7 | 45        |
| 69 | On lipschitz continuity of the solution mapping to the skorokhod problem, with applications. <i>Stochastic and Stochastics Reports</i> , 1991, 35, 31-62.                                    | 0.6 | 181       |
| 70 | On oblique derivative problems for fully nonlinear second-order elliptic PDE's on domains with corners. <i>Hokkaido Mathematical Journal</i> , 1991, 20, 135.                                | 0.2 | 35        |
| 71 | Remarks on elliptic singular perturbation problems. <i>Applied Mathematics and Optimization</i> , 1991, 23, 1-15.  | 0.8 | 19        |
| 72 | Fully nonlinear oblique derivative problems for nonlinear second-order elliptic PDE’s. <i>Duke Mathematical Journal</i> , 1991, 62, .  | 0.8 | 40        |

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|----|--|-----|-----------|
| 73 | Viscosity solutions for monotone systems of second-order elliptic PDES. <i>Communications in Partial Differential Equations</i> , 1991, 16, 1095-1128.   | 1.0 | 99        |
| 74 | Viscosity solutions of fully nonlinear second-order elliptic partial differential equations. <i>Journal of Differential Equations</i> , 1990, 83, 26-78.   | 1.1 | 389       |
| 75 | On oblique derivative problems for fully nonlinear second-order elliptic partial differential equations on nonsmooth domains. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1990, 15, 1123-1138. | 0.6 | 29        |
| 76 | A Viscosity Solution Approach to the Asymptotic Analysis of Queueing Systems. <i>Annals of Probability</i> , 1990, 18, .   | 0.8 | 43        |
| 77 | On uniqueness and existence of viscosity solutions of fully nonlinear second-order elliptic PDE's. <i>Communications on Pure and Applied Mathematics</i> , 1989, 42, 15-45.  | 1.2 | 241       |
| 78 | A remark on a system of inequalities with bilateral obstacles. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1989, 13, 1295-1301.  | 0.6 | 2         |
| 79 | The Bellman equation for minimizing the maximum cost. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1989, 13, 1067-1090.   | 0.6 | 102       |
| 80 | Representation of solutions of Hamilton-Jacobi equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1988, 12, 121-146.   | 0.6 | 36        |
| 81 | Perron's method for Hamilton-Jacobi equations. <i>Duke Mathematical Journal</i> , 1987, 55, 369.   | 0.8 | 302       |
| 82 | Uniqueness of viscosity solutions of Hamilton-Jacobi equations revisited. <i>Journal of the Mathematical Society of Japan</i> , 1987, 39, 581.   | 0.3 | 78        |
| 83 | A simple, direct proof of uniqueness for solutions of the Hamilton-Jacobi equations of eikonal type. <i>Proceedings of the American Mathematical Society</i> , 1987, 100, 247-247.                                 | 0.4 | 80        |
| 84 | On Representation of Solutions of Hamilton-Jacobi Equations with Convex Hamiltonians. <i>North-Holland Mathematics Studies</i> , 1985, 128, 15-52.   | 0.2 | 7         |
| 85 | Approximate solutions of the bellman equation of deterministic control theory. <i>Applied Mathematics and Optimization</i> , 1984, 11, 161-181.  | 0.8 | 128       |
| 86 | Differential games and nonlinear first order PDE on bounded domains. <i>Manuscripta Mathematica</i> , 1984, 49, 109-139.   | 0.3 | 31        |
| 87 | Title is missing!. <i>Indiana University Mathematics Journal</i> , 1984, 33, 721.  | 0.4 | 150       |
| 88 | Boundary regularity and uniqueness for an elliptic equations with gradient constraint. <i>Communications in Partial Differential Equations</i> , 1983, 8, 317-346.   | 1.0 | 35        |
| 89 | Global stability of stationary solutions to a nonlinear diffusion equation in phytoplankton dynamics. <i>Journal of Mathematical Biology</i> , 1982, 16, 1-24.   | 0.8 | 38        |
| 90 | On the existence of almost periodic complete trajectories for contractive almost periodic processes. <i>Journal of Differential Equations</i> , 1982, 43, 66-72.   | 1.1 | 19        |

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|----|---|-----|-----------|
| 91 | On a certain estimate of the free boundary in the Stefan problem. Journal of Differential Equations, 1981, 42, 106-115.   | 1.1 | 10        |
| 92 | Asymptotic stability and blowing up of solutions of some nonlinear equations. Journal of Differential Equations, 1977, 26, 291-319.                               | 1.1 | 98        |
| 93 | Some Uniqueness Theorems for First Order Hyperbolic Systems. Publications of the Research Institute for Mathematical Sciences, 1975, 11, 403-415.                 | 0.4 | 0         |
| 94 | Discrete approximation of the viscous HJ equation. Stochastics and Partial Differential Equations: Analysis and Computations, 0, , 1.                             | 0.5 | 1         |
| 95 | Hamiltonâ€“Jacobi equations with their Hamiltonians depending Lipschitz continuously on the unknown. Communications in Partial Differential Equations, 0, , 1-36. | 1.0 | 1         |