Yves Achdou

List of Publications by Year in descending order

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Version: 2024-02-01

| | 394421 | 302126 |
|----------------|--------------|-----------------------------------|
| 1,713 | 19 | 39 |
| citations | h-index | g-index |
| | | |
| | | |
| 50 | 5 0 | 601 |
| 58 | 58 | 681 |
| docs citations | times ranked | citing authors |
| | | |
| | citations 58 | 1,713 19 citations h-index 58 58 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Mean Field Games: Numerical Methods. SIAM Journal on Numerical Analysis, 2010, 48, 1136-1162. | 2.3 | 226 |
| 2 | Effective Boundary Conditions for Laminar Flows over Periodic Rough Boundaries. Journal of Computational Physics, 1998, 147, 187-218. | 3.8 | 175 |
| 3 | Mean Field Games: Numerical Methods for the Planning Problem. SIAM Journal on Control and Optimization, 2012, 50, 77-109. | 2.1 | 138 |
| 4 | Income and Wealth Distribution in Macroeconomics: A Continuous-Time Approach. Review of Economic Studies, 2022, 89, 45-86. | 5.4 | 100 |
| 5 | Partial differential equation models in macroeconomics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130397. | 3.4 | 94 |
| 6 | Iterative Substructuring Preconditioners for Mortar Element Methods in Two Dimensions. SIAM Journal on Numerical Analysis, 1999, 36, 551-580. | 2.3 | 88 |
| 7 | Mean Field Games: Convergence of a Finite Difference Method. SIAM Journal on Numerical Analysis, 2013, 51, 2585-2612. | 2.3 | 65 |
| 8 | A domain decomposition preconditioner for an advection–diffusion problem. Computer Methods in Applied Mechanics and Engineering, 2000, 184, 145-170. | 6.6 | 57 |
| 9 | Hamilton–Jacobi equations constrained on networks. Nonlinear Differential Equations and Applications, 2013, 20, 413-445. | 0.8 | 44 |
| 10 | Convergence of a Finite Difference Scheme to Weak Solutions of the System of Partial Differential Equations Arising in Mean Field Games. SIAM Journal on Numerical Analysis, 2016, 54, 161-186. | 2.3 | 42 |
| 11 | Mean field games models of segregation. Mathematical Models and Methods in Applied Sciences, 2017, 27, 75-113. | 3.3 | 38 |
| 12 | An Inverse Problem for a Parabolic Variational Inequality Arising in Volatility Calibration with American Options. SIAM Journal on Control and Optimization, 2005, 43, 1583-1615. | 2.1 | 37 |
| 13 | HOMOGENIZATION OF HAMILTON–JACOBI EQUATIONS: NUMERICAL METHODS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1115-1143. | 3.3 | 35 |
| 14 | Iterative strategies for solving linearized discrete mean field games systems. Networks and Heterogeneous Media, 2012, 7, 197-217. | 1.1 | 32 |
| 15 | On the system of partial differential equations arising in mean field type control. Discrete and Continuous Dynamical Systems, 2015, 35, 3879-3900. | 0.9 | 31 |
| 16 | Finite Difference Methods for Mean Field Games. Lecture Notes in Mathematics, 2013, , 1-47. | 0.2 | 30 |
| 17 | Hamilton-Jacobi Equations: Approximations, Numerical Analysis and Applications. Lecture Notes in Mathematics, 2013, , . | 0.2 | 28 |
| 18 | Mean Field Games and Applications: Numerical Aspects. Lecture Notes in Mathematics, 2020, , 249-307. | 0.2 | 26 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Variational Analysis for the Black and Scholes Equation with Stochastic Volatility. ESAIM: Mathematical Modelling and Numerical Analysis, 2002, 36, 373-395. | 1.9 | 25 |
| 20 | Hamilton-Jacobi Equations on Networks as Limits of Singularly Perturbed Problems in Optimal Control: Dimension Reduction. Communications in Partial Differential Equations, 2015, 40, 652-693. | 2.2 | 21 |
| 21 | Mean field games with congestion. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2018, 35, 443-480. | 1.4 | 20 |
| 22 | A Robin-Robin preconditioner for an advection-diffusion problem. Comptes Rendus Mathematique, 1997, 325, 1211-1216. | 0.5 | 19 |
| 23 | The Mortar Element Method with Overlapping Subdomains. SIAM Journal on Numerical Analysis, 2002, 40, 601-628. | 2.3 | 19 |
| 24 | VOLATILITY SMILE BY MULTILEVEL LEAST SQUARE. International Journal of Theoretical and Applied Finance, 2002, 05, 619-643. | 0.5 | 18 |
| 25 | Mean Field Type Control with Congestion. Applied Mathematics and Optimization, 2016, 73, 393-418. | 1.6 | 18 |
| 26 | Numerical Procedure for Calibration of Volatility with American Options. Applied Mathematical Finance, 2005, 12, 201-241. | 1.2 | 16 |
| 27 | A Posteriori Error Estimates for Parabolic Variational Inequalities. Journal of Scientific Computing, 2008, 37, 336-366. | 2.3 | 16 |
| 28 | Mean Field Type Control with Congestion (II): An Augmented Lagrangian Method. Applied Mathematics and Optimization, 2016, 74, 535-578. | 1.6 | 16 |
| 29 | Diffusion and propagation problems in some ramified domains with a fractal boundary. ESAIM: Mathematical Modelling and Numerical Analysis, 2006, 40, 623-652. | 1.9 | 14 |
| 30 | Trace results on domains with self-similar fractal boundaries. Journal Des Mathematiques Pures Et Appliquees, 2008, 89, 596-623. | 1.6 | 13 |
| 31 | Hamilton–Jacobi equations for optimal control on junctions and networks. ESAIM - Control, Optimisation and Calculus of Variations, 2015, 21, 876-899. | 1.3 | 12 |
| 32 | Deterministic mean field games with control on the acceleration. Nonlinear Differential Equations and Applications, 2020, 27, 1. | 0.8 | 12 |
| 33 | On a Parallel Implementation of the Mortar Element Method. ESAIM: Mathematical Modelling and Numerical Analysis, 1999, 33, 245-259. | 1.9 | 11 |
| 34 | A Multiscale Numerical Method for Poisson Problems in Some Ramified Domains with a Fractal Boundary. Multiscale Modeling and Simulation, 2006, 5, 828-860. | 1.6 | 11 |
| 35 | Mean Field Games for Modeling Crowd Motion. Computational Methods in Applied Sciences (Springer), 2019, , 17-42. | 0.3 | 11 |
| 36 | A Long-Term Mathematical Model for Mining Industries. Applied Mathematics and Optimization, 2016, 74, 579-618. | 1.6 | 10 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Transparent boundary conditions for the Helmholtz equation in some ramified domains with a fractal boundary. Journal of Computational Physics, 2007, 220, 712-739. | 3.8 | 9 |
| 38 | Hamilton-Jacobi equations on networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2577-2582. | 0.4 | 9 |
| 39 | Mean field games of controls: Finite difference approximations. Mathematics in Engineering, 2021, 3, 1-35. | 0.9 | 9 |
| 40 | Trace Theorems for a Class of Ramified Domains with Self-Similar Fractal Boundaries. SIAM Journal on Mathematical Analysis, 2010, 42, 1449-1482. | 1.9 | 8 |
| 41 | A partial differential equation connected to option pricing with stochastic volatility: Regularity results and discretization. Mathematics of Computation, 2004, 74, 1291-1323. | 2.1 | 7 |
| 42 | An Inverse Problem for a Parabolic Variational Inequality with an Integro-Differential Operator. SIAM Journal on Control and Optimization, 2008, 47, 733-767. | 2.1 | 7 |
| 43 | Effective transmission conditions for Hamilton–Jacobi equations defined on two domains separated by an oscillatory interface. Journal Des Mathematiques Pures Et Appliquees, 2016, 106, 1091-1121. | 1.6 | 6 |
| 44 | JLip versus Sobolev spaces on a class of self-similar fractal foliages. Journal Des Mathematiques Pures Et Appliquees, 2012, 97, 142-172. | 1.6 | 5 |
| 45 | A Transmission Problem Across a Fractal Self-Similar Interface. Multiscale Modeling and Simulation, 2016, 14, 708-736. | 1.6 | 5 |
| 46 | Optimal control of conditioned processes with feedback controls. Journal Des Mathematiques Pures Et Appliquees, 2021, 148, 308-341. | 1.6 | 4 |
| 47 | HOMOGENIZATION OF FIRST-ORDER EQUATIONS WITH u/\hat{a}^* -PERIODIC HAMILTONIAN: RATE OF CONVERGENCE AS \hat{a}^* \hat{a}^* 0 AND NUMERICAL METHODS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 1317-1353. | 3.3 | 3 |
| 48 | Comparison of Different Definitions of Traces for a Class of Ramified Domains with Self-Similar Fractal Boundaries. Potential Analysis, 2014, 40, 345-362. | 0.9 | 3 |
| 49 | Homogenization of a transmission problem with Hamilton–Jacobi equations and a two-scale interface. Effective transmission conditions. Journal Des Mathematiques Pures Et Appliquees, 2019, 122, 164-197. | 1.6 | 3 |
| 50 | Deterministic Mean Field Games with Control on the Acceleration and State Constraints. SIAM Journal on Mathematical Analysis, 2022, 54, 3757-3788. | 1.9 | 3 |
| 51 | Partial Differential Equations for Option Pricing. Handbook of Numerical Analysis, 2009, 15, 369-495. | 1.8 | 2 |
| 52 | Finite horizon mean field games on networks. Calculus of Variations and Partial Differential Equations, 2020, 59, 1. | 1.7 | 2 |
| 53 | Comparison of wall laws for unsteady incompressible Navier-Stokes equations over rough interfaces. , 2001, , 762-763. | | 2 |
| 54 | Boundary Value Problems in Ramified Domains with Fractal Boundaries. Lecture Notes in Computational Science and Engineering, 2008, , 419-426. | 0.3 | 1 |

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| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 55 | Calibration of Lévy Processes with American Options. Computational Methods in Applied Sciences (Springer), 2008, , 259-277. | 0.3 | O |
| 56 | A class of short-term models for the oil industry that accounts for speculative oil storage. Finance and Stochastics, 2022, 26, 631-669. | 1.1 | 0 |