

Panagiotis E Souganidis

List of Publications by Year in descending order

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55
papers

1,847
citations

279798

23
h-index

265206

42
g-index

55
all docs

55
docs citations

55
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Existence and stability of entropy solutions for the hyperbolic systems of isentropic gas dynamics in Eulerian and Lagrangian coordinates. <i>Communications on Pure and Applied Mathematics</i> , 1996, 49, 599-638.	3.1	233
2	Correctors for the homogenization of Hamilton-Jacobi equations in the stationary ergodic setting. <i>Communications on Pure and Applied Mathematics</i> , 2003, 56, 1501-1524.	3.1	109
3	Homogenization of fully nonlinear, uniformly elliptic and parabolic partial differential equations in stationary ergodic media. <i>Communications on Pure and Applied Mathematics</i> , 2005, 58, 319-361.	3.1	101
4	Fully nonlinear stochastic partial differential equations. <i>Comptes Rendus Mathematique</i> , 1998, 326, 1085-1092.	0.5	100
5	Homogenization of "Viscous" Hamilton-Jacobi Equations in Stationary Ergodic Media. <i>Communications in Partial Differential Equations</i> , 2005, 30, 335-375.	2.2	94
6	Fully nonlinear stochastic partial differential equations: non-smooth equations and applications. <i>Comptes Rendus Mathematique</i> , 1998, 327, 735-741.	0.5	88
7	A rate of convergence for monotone finite difference approximations to fully nonlinear, uniformly elliptic PDEs. <i>Communications on Pure and Applied Mathematics</i> , 2008, 61, 1-17.	3.1	86
8	Generalized motion of noncompact hypersurfaces with velocity having arbitrary growth on the curvature tensor. <i>Tohoku Mathematical Journal</i> , 1995, 47, 227.	0.2	80
9	Rates of convergence for the homogenization of fully nonlinear uniformly elliptic pde in random media. <i>Inventiones Mathematicae</i> , 2010, 180, 301-360.	2.5	69
10	Homogenization of degenerate second-order PDE in periodic and almost periodic environments and applications. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2005, 22, 667-677.	1.4	66
11	Convergence of Nonlocal Threshold Dynamics Approximations to Front Propagation. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 195, 1-23.	2.4	65
12	Generalized motion by mean curvature as a macroscopic limit of stochastic ising models with long range interactions and Glauber dynamics. <i>Communications in Mathematical Physics</i> , 1995, 169, 61-97.	2.2	54
13	Stochastic homogenization of Hamilton-Jacobi and degenerate Bellman equations in unbounded environments. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2012, 97, 460-504.	1.6	52
14	Threshold dynamics type approximation schemes for propagating fronts. <i>Journal of the Mathematical Society of Japan</i> , 1999, 51, 267.	0.4	50
15	Fully nonlinear stochastic pde with semilinear stochastic dependence. <i>Comptes Rendus Mathematique</i> , 2000, 331, 617-624.	0.5	49
16	Uniqueness of weak solutions of fully nonlinear stochastic partial differential equations. <i>Comptes Rendus Mathematique</i> , 2000, 331, 783-790.	0.5	46
17	Maximal solutions and universal bounds for some partial differential equations of evolution. <i>Archive for Rational Mechanics and Analysis</i> , 1989, 105, 163-190.	2.4	40
18	Stochastic Homogenization of Level-Set Convex Hamilton-Jacobi Equations. <i>International Mathematics Research Notices</i> , 2013, 2013, 3420-3449.	1.0	39

#	ARTICLE	IF	CITATIONS
19	Long-Time Behavior, Invariant Measures, and Regularizing Effects for Stochastic Scalar Conservation Laws. Communications on Pure and Applied Mathematics, 2017, 70, 1562-1597.	3.1	39
20	Error estimates and convergence rates for the stochastic homogenization of Hamilton-Jacobi equations. Journal of the American Mathematical Society, 2014, 27, 479-540.	3.9	36
21	Stochastic homogenization of Hamilton-Jacobi and "viscous"-Hamilton-Jacobi equations with convex nonlinearities – Revisited. Communications in Mathematical Sciences, 2010, 8, 627-637.	1.0	34
22	Scalar conservation laws with multiple rough fluxes. Communications in Mathematical Sciences, 2015, 13, 1569-1597.	1.0	29
23	Stochastic non-isotropic degenerate parabolic-hyperbolic equations. Stochastic Processes and Their Applications, 2017, 127, 2961-3004.	0.9	24
24	Large-Time Behavior for Viscous and Nonviscous Hamilton-Jacobi Equations Forced by Additive Noise. SIAM Journal on Mathematical Analysis, 2005, 37, 777-796.	1.9	23
25	Homogenization and non-homogenization of certain non-convex Hamilton-Jacobi equations. Journal Des Mathematiques Pures Et Appliquees, 2017, 108, 751-782.	1.6	21
26	Existence and uniqueness of weak solutions for precipitation fronts: A novel hyperbolic free boundary problem in several space variables. Communications on Pure and Applied Mathematics, 2010, 63, 1351-1361.	3.1	20
27	Scalar conservation laws with rough (stochastic) fluxes. Stochastics and Partial Differential Equations: Analysis and Computations, 2013, 1, 664-686.	0.9	20
28	Homogenization and Enhancement of the $\langle i \rangle G \langle i \rangle$ -Equation in Random Environments. Communications on Pure and Applied Mathematics, 2013, 66, 1582-1628.	3.1	19
29	Asymmetric potentials and motor effect: a homogenization approach. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2009, 26, 2055-2071.	1.4	17
30	Scalar conservation laws with rough (stochastic) fluxes: the spatially dependent case. Stochastics and Partial Differential Equations: Analysis and Computations, 2014, 2, 517-538.	0.9	17
31	Semi-discretization for Stochastic Scalar Conservation Laws with Multiple Rough Fluxes. SIAM Journal on Numerical Analysis, 2016, 54, 2187-2209.	2.3	13
32	Front propagation for integro-differential KPP reaction-diffusion equations in periodic media. Nonlinear Differential Equations and Applications, 2019, 26, 1.	0.8	12
33	Stochastic averaging lemmas for kinetic equations. SÃ©minaire Laurent Schwartz "EDP Et Applications, 0, , 1-17.	0.0	12
34	Free boundary problems for tumor growth: A viscosity solutions approach. Nonlinear Analysis: Theory, Methods & Applications, 2016, 138, 207-228.	1.1	10
35	On the existence of correctors for the stochastic homogenization of viscous Hamilton-Jacobi equations. Comptes Rendus Mathematique, 2017, 355, 786-794.	0.3	10
36	Asymmetric Potentials and Motor Effect: A Large Deviation Approach. Archive for Rational Mechanics and Analysis, 2009, 193, 153-169.	2.4	9

#	ARTICLE	IF	CITATIONS
37	Speed of propagation for Hamiltonâ€™Jacobi equations with multiplicative rough time dependence and convex Hamiltonians. Probability Theory and Related Fields, 2020, 176, 421-448.	1.8	8
38	Eikonal equations and pathwise solutions to fully non-linear SPDEs. Stochastics and Partial Differential Equations: Analysis and Computations, 2017, 5, 256-277.	0.9	7
39	Stochastic homogenization of viscous superquadratic Hamiltonâ€™Jacobi equations in dynamic random environment. Research in Mathematical Sciences, 2017, 4, 1.	1.0	6
40	Stochastic homogenization of interfaces moving with changing sign velocity. Journal of Differential Equations, 2015, 258, 1025-1057.	2.2	5
41	Pathwise Solutions for Fully Nonlinear First- and Second-Order Partial Differential Equations with Multiplicative Rough Time Dependence. Lecture Notes in Mathematics, 2019, , 75-220.	0.2	5
42	A homogenization approach to flashing ratchets. Nonlinear Differential Equations and Applications, 2011, 18, 45-58.	0.8	4
43	Quantitative homogenization of elliptic partial differential equations with random oscillatory boundary data. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 958-1002.	1.6	4
44	New regularity results for Hamiltonâ€™Jacobi equations and long time behavior of pathwise (stochastic) viscosity solutions. Research in Mathematical Sciences, 2020, 7, 1.	1.0	4
45	Addendum to: ?Dissipative and Entropy Solutions to Non-Isotropic Degenerate Parabolic Balance Laws?. Archive for Rational Mechanics and Analysis, 2004, 174, 443-447.	2.4	3
46	Concentration phenomena for neutronic multigroup diffusion in random environments. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 419-439.	1.4	3
47	Perturbation problems in homogenization of Hamiltonâ€™Jacobi equations. Journal Des Mathematiques Pures Et Appliquees, 2018, 117, 221-262.	1.6	3
48	On first order mean field game systems with a common noise. Annals of Applied Probability, 2022, 32, .	1.3	3
49	Periodic approximations of the ergodic constants in the stochastic homogenization of nonlinear second-order (degenerate) equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 571-591.	1.4	2
50	Brownian fluctuations of flame fronts with small random advection. Mathematical Models and Methods in Applied Sciences, 2020, 30, 1375-1406.	3.3	2
51	 <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:struct-bib="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:struct-no="http://www.elsevier.com/xml/common/struct-no/dtd"/></small>	1.1	1
52	Convergence of Deterministic Growth Models. Archive for Rational Mechanics and Analysis, 2022, 245, 863-898.	2.4	1
53	On the Langevin equation with variable friction. Calculus of Variations and Partial Differential Equations, 2017, 56, 1.	1.7	0
54	The reactive-telegraph equation and a related kinetic model. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.8	0

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55	Scalar conservation laws: Initial and boundary value problems revisited and saturated solutions. Comptes Rendus Mathematique, 2018, 356, 1167-1178.	0.3	0