

Yu Gu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10583884/publications.pdf>

Version: 2024-02-01

31
papers

251
citations

1040056

9
h-index

996975

15
g-index

31
all docs

31
docs citations

31
times ranked

66
citing authors

#	ARTICLE	IF	CITATIONS
1	The Edwards-Wilkinson Limit of the Random Heat Equation in Dimensions Three and Higher. <i>Communications in Mathematical Physics</i> , 2018, 363, 351-388.	2.2	32
2	Scaling Limit of Fluctuations in Stochastic Homogenization. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 452-481.	1.6	27
3	Fluctuations of the solutions to the KPZ equation in dimensions three and higher. <i>Probability Theory and Related Fields</i> , 2020, 176, 1217-1258.	1.8	22
4	Moments of the 2D SHE at criticality. <i>Probability and Mathematical Physics</i> , 2021, 2, 179-219.	1.5	19
5	Gaussian fluctuations from the 2D KPZ equation. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2020, 8, 150-185.	0.9	17
6	Random homogenization and convergence to integrals with respect to the Rosenblatt process. <i>Journal of Differential Equations</i> , 2012, 253, 1069-1087.	2.2	16
7	Corrector theory for elliptic equations with long-range correlated random potential. <i>Asymptotic Analysis</i> , 2012, 77, 123-145.	0.5	15
8	Kardar-Parisi-Zhang Equation and Large Deviations for Random Walks in Weak Random Environments. <i>Journal of Statistical Physics</i> , 2017, 166, 150-168.	1.2	14
9	High order correctors and two-scale expansions in stochastic homogenization. <i>Probability Theory and Related Fields</i> , 2017, 169, 1221-1259.	1.8	10
10	Limiting models for equations with large random potential: A review. <i>Communications in Mathematical Sciences</i> , 2015, 13, 729-748.	1.0	10
11	Fluctuations of a Nonlinear Stochastic Heat Equation in Dimensions Three and Higher. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 5422-5440.	1.9	7
12	The Random Heat Equation in Dimensions Three and Higher: The Homogenization Viewpoint. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 242, 827-873.	2.4	7
13	Homogenization of parabolic equations with large time-dependent random potential. <i>Stochastic Processes and Their Applications</i> , 2015, 125, 91-115.	0.9	6
14	Weak convergence approach for parabolic equations with large, highly oscillatory, random potential. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2016, 52, .	1.1	6
15	Fluctuations of parabolic equations with large random potentials. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2015, 3, 1-51.	0.9	5
16	Moments of 2D parabolic Anderson model. <i>Asymptotic Analysis</i> , 2018, 108, 151-161.	0.5	5
17	An invariance principle for Brownian motion in random scenery. <i>Electronic Journal of Probability</i> , 2014, 19, .	1.0	4
18	The Random Schrödinger Equation: Homogenization in Time-Dependent Potentials. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 323-363.	1.6	4

#	ARTICLE	IF	CITATIONS
19	The Schrödinger equation with spatial white noise: The average wave function. Journal of Functional Analysis, 2018, 274, 2113-2138.	1.4	4
20	Another look into the Wong-Zakai theorem for stochastic heat equation. Annals of Applied Probability, 2019, 29, .	1.3	4
21	Pointwise two-scale expansion for parabolic equations with random coefficients. Probability Theory and Related Fields, 2016, 166, 585-618.	1.8	3
22	On generalized Gaussian free fields and stochastic homogenization. Electronic Journal of Probability, 2017, 22, .	1.0	3
23	Gaussian fluctuations from random Schrödinger equation. Communications in Partial Differential Equations, 2021, 46, 201-232.	2.2	2
24	A PDE hierarchy for directed polymers in random environments. Nonlinearity, 2021, 34, 7335-7370.	1.4	2
25	A quenched local limit theorem for stochastic flows. Journal of Functional Analysis, 2022, 282, 109372.	1.4	2
26	High Temperature Behaviors of the Directed Polymer on a Cylinder. Journal of Statistical Physics, 2022, 186, 1.	1.2	2
27	A central limit theorem for fluctuations in 1D stochastic homogenization. Stochastics and Partial Differential Equations: Analysis and Computations, 2016, 4, 713-745.	0.9	1
28	The random Schrödinger equation: Slowly decorrelating time-dependent potentials. Communications in Mathematical Sciences, 2017, 15, 359-378.	1.0	1
29	A forward-backward SDE from the 2D nonlinear stochastic heat equation. Annals of Probability, 2022, 50, .	1.8	1
30	Radiative transport limit of Dirac equations with random electromagnetic field. Communications in Partial Differential Equations, 2018, 43, 699-732.	2.2	0
31	The 1D Schrödinger equation with a spacetime white noise: the average wave function. ESAIM - Probability and Statistics, 2019, 23, 338-349.	0.5	0