Anna DeMasi

List of Publications by Year
in descending order

61 papers	2,040 citations	304368 22 h-index	233125 45 g-index
67 all docs	67 docs citations	67 times ranked	622 citing authors

#	Article	IF	Citations
1	Quasi-static limit for the asymmetric simple exclusion. Probability Theory and Related Fields, 2022, 183, 1075-1117.	0.9	0
2	Reservoirs, Fick law, and the Darken effect. Journal of Mathematical Physics, 2021, 62, 073301.	0.5	2
3	Interface Fluctuations in Non Equilibrium Stationary States: The SOS Approximation. Journal of Statistical Physics, 2020, 180, 414-426.	0.5	2
4	Quasi-static large deviations. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2020, 56, .	0.7	1
5	A Note on Fickâ€™s Law with Phase Transitions. Journal of Statistical Physics, 2019, 175, 203-211.	0.5	6
6	Hydrodynamics of the N-BBM Process. Springer Proceedings in Mathematics and Statistics, 2019, , 523-549.	0.1	12
7	Particle Models with Self Sustained Current. Journal of Statistical Physics, 2017, 167, 1081-1111.	0.5	21
8	Microscopic models for uphill diffusion. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 435002.	0.7	20
9	Free Boundary Problems in PDEs and Particle Systems. SpringerBriefs in Mathematical Physics, 2016, , .	0.1	12
10	Latent heat and the Fourier law. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1710-1713.	0.9	23
11	Other Models. SpringerBriefs in Mathematical Physics, 2016, , 101-107.	0.1	0
12	Separation versus diffusion in a two species system. Brazilian Journal of Probability and Statistics, 2015, 29, .	0.1	5
13	Exponential rate of convergence in current reservoirs. Bernoulli, 2015, 21, .	0.7	2
14	Extinction time for a random walk in a random environment. Bernoulli, 2015, 21, .	0.7	2
15	Quasi-Static Hydrodynamic Limits. Journal of Statistical Physics, 2015, 161, 1037-1058.	0.5	24
16	Hydrodynamic Limit for Interacting Neurons. Journal of Statistical Physics, 2015, 158, 866-902.	0.5	69
17	Symmetric simple exclusion process with free boundaries. Probability Theory and Related Fields, 2015, 161, 155-193.	0.9	8
18	Hydrodynamic limit in a particle system with topological interactions. Arabian Journal of Mathematics, 2014, 3, 381-417.	0.4	27

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19	Super-Hydrodynamic Limit in Interacting Particle Systems. Journal of Statistical Physics, 2014, 155, 867-887.	0.5	17
20	Truncated correlations in the stirring process with births and deaths. Electronic Journal of Probability, 2012, 17, .	0.5	12
21	Non-equilibrium Stationary States in the Symmetric Simple Exclusion with Births and Deaths. Journal of Statistical Physics, 2012, 147, 519-528.	0.5	10
22	Current Reservoirs in the Simple Exclusion Process. Journal of Statistical Physics, 2011, 144, 1151-1170.	0.5	21
23	Fourier Law, Phase Transitions and the Stationary Stefan Problem. Archive for Rational Mechanics and Analysis, 2011, 201, 681-725.	1.1	20
24	Coexistence of Ordered and Disordered Phases inÂPottsÂModels in the Continuum. Journal of Statistical Physics, 2009, 134, 243-306.	0.5	31
25	Potts Models in the Continuum. Uniqueness andÂExponential Decay in the Restricted Ensembles. Journal of Statistical Physics, 2008, 133, 281-345.	0.5	24
26	Stability of invariant manifolds in one and two dimensions. Nonlinearity, 2007, 20, 537-582.	0.6	1
27	Interface Instability under Forced Displacements. Annales Henri Poincare, 2006, 7, 471-511.	0.8	10
28	Tunneling in Two Dimensions. Communications in Mathematical Physics, 2006, 269, 715-763.	1.0	7
29	Energy levels of a nonlocal functional. Journal of Mathematical Physics, 2005, 46, 083302.	0.5	8
30	Tunnelling in Nonlocal Evolution Equations. Journal of Nonlinear Mathematical Physics, 2005, 12, 50.	0.8	7
31	Liquid-Vapor Interfaces and Surface Tension in a Mesoscopic Model of Fluid with Nonlocal Interactions. Journal of Statistical Physics, 2004, 115, 643-679.	0.5	0
32	Slow Motion and Metastability for a Nonlocal Evolution Equation. Journal of Statistical Physics, 2003, 112, 709-764.	0.5	7
33	Spin Systems with Long Range Interactions. , 2003, , 25-81.		2
34	Flux Fluctuations in the One Dimensional Nearest Neighbors Symmetric Simple Exclusion Process. Journal of Statistical Physics, 2002, 107, 677-683.	0.5	15
35	Interface Fluctuations and Couplings in the D=1 Ginzburgâ€“Landau Equation with Noise. Journal of Theoretical Probability, 1998, 11, 25-80.	0.4	14
36	Glauber evolution with Kac potentials: III. Spinodal decomposition. Nonlinearity, 1996, 9, 53-114.	0.6	20

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37	Glauber evolution with Kac potentials: II. Fluctuations. Nonlinearity, 1996, 9, 27-51.	0.6	15
38	Travelling fronts in non-local evolution equations. Archive for Rational Mechanics and Analysis, 1995, 132, 143-205.	1.1	82
39	Spatial Patterns when Phases Separate in an Interacting Particle System. Annals of Probability, 1994, 22, 334.	0.8	14
40	Glauber evolution with Kac potentials. I. Mesoscopic and macroscopic limits, interface dynamics. Nonlinearity, 1994, 7, 633-696.	0.6	98
41	Stability of the interface in a model of phase separation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1994, 124, 1013-1022.	0.8	67
42	Motion by curvature by scaling nonlocal evolution equations. Journal of Statistical Physics, 1993, 73, 543-570.	0.5	45
43	Kinetic limits of the HPP cellular automaton. Journal of Statistical Physics, 1992, 66, 403-464.	0.5	3
44	Nonequilibrium fluctuations in particle systems modelling reaction-diffusion equations. Stochastic Processes and Their Applications, 1992, 42, 1-30.	0.4	16
45	Incompressible navier-stokes and euler limits of the boltzmann equation. Communications on Pure and Applied Mathematics, 1989, 42, 1189-1214.	1.2	152
46	A microscopic model of interface related to the Burgers equation. Journal of Statistical Physics, 1989, 55, 601-609.	0.5	12
47	A stochastic particle system modeling the Carleman equation. Journal of Statistical Physics, 1989, 55, 625-638.	0.5	12
48	An invariance principle for reversible Markov processes. Applications to random motions in random environments. Journal of Statistical Physics, 1989, 55, 787-855.	0.5	229
49	Microscopic structure at the shock in the asymmetric simple exclusion. Stochastic and Stochastics Reports, 1989, 27, 151-165.	0.6	32
50	Collective phenomena in interacting particle systems. Stochastic Processes and Their Applications, 1987, 25, 137-152.	0.4	18
51	Asymptotic Equivalence of Fluctuation Fields for Reversible Exclusion Processes with Speed Change. Annals of Probability, 1986, 14, 409.	0.8	25
52	Reaction-diffusion equations for interacting particle systems. Journal of Statistical Physics, 1986, 44, 589-644.	0.5	166
53	Escape from the unstable equilibrium in a random process with infinitely many interacting particles. Journal of Statistical Physics, 1986, 44, 645-696.	0.5	13
54	Microscopic selection principle for a diffusion-reaction equation. Journal of Statistical Physics, 1986, 45, 905-920.	0.5	50

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55	Rigorous Derivation of Reaction-Diffusion Equations with Fluctuations.. Physical Review Letters, 1986, 56, 1317-1317.	2.9	1
56	Self-diffusion in one-dimensional lattice gases in the presence of an external field. Journal of Statistical Physics, 1985, 38, 603-613.	0.5	59
57	Rigorous Derivation of Reaction-Diffusion Equations with Fluctuations. Physical Review Letters, 1985, 55, 1947-1949.	2.9	95
58	A remark on the hydrodynamics of the zero-range processes. Journal of Statistical Physics, 1984, 36, 81-87.	0.5	34
59	Small deviations from local equilibrium for a process which exhibits hydrodynamical behavior. I. Journal of Statistical Physics, 1982, 29, 57-79.	0.5	11
60	Small deviations from local equilibrium for a process which exhibits hydrodynamical behavior. II. Journal of Statistical Physics, 1982, 29, 81-93.	0.5	15
61	One-dimensional DLR invariant measures are regular. Communications in Mathematical Physics, 1979, 67, 43-50.	1.0	4