

Anna DeMasi

List of Publications by Year in descending order

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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 | An invariance principle for reversible Markov processes. Applications to random motions in random environments. <i>Journal of Statistical Physics</i> , 1989, 55, 787-855. | 0.5 | 229 |
| 2 | Reaction-diffusion equations for interacting particle systems. <i>Journal of Statistical Physics</i> , 1986, 44, 589-644. | 0.5 | 166 |
| 3 | Incompressible navier-stokes and euler limits of the boltzmann equation. <i>Communications on Pure and Applied Mathematics</i> , 1989, 42, 1189-1214. | 1.2 | 152 |
| 4 | Glauber evolution with Kac potentials. I. Mesoscopic and macroscopic limits, interface dynamics. <i>Nonlinearity</i> , 1994, 7, 633-696. | 0.6 | 98 |
| 5 | Rigorous Derivation of Reaction-Diffusion Equations with Fluctuations. <i>Physical Review Letters</i> , 1985, 55, 1947-1949. | 2.9 | 95 |
| 6 | Travelling fronts in non-local evolution equations. <i>Archive for Rational Mechanics and Analysis</i> , 1995, 132, 143-205. | 1.1 | 82 |
| 7 | Hydrodynamic Limit for Interacting Neurons. <i>Journal of Statistical Physics</i> , 2015, 158, 866-902. | 0.5 | 69 |
| 8 | Stability of the interface in a model of phase separation. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1994, 124, 1013-1022. | 0.8 | 67 |
| 9 | Self-diffusion in one-dimensional lattice gases in the presence of an external field. <i>Journal of Statistical Physics</i> , 1985, 38, 603-613. | 0.5 | 59 |
| 10 | Microscopic selection principle for a diffusion-reaction equation. <i>Journal of Statistical Physics</i> , 1986, 45, 905-920. | 0.5 | 50 |
| 11 | Motion by curvature by scaling nonlocal evolution equations. <i>Journal of Statistical Physics</i> , 1993, 73, 543-570. | 0.5 | 45 |
| 12 | A remark on the hydrodynamics of the zero-range processes. <i>Journal of Statistical Physics</i> , 1984, 36, 81-87. | 0.5 | 34 |
| 13 | Microscopic structure at the shock in the asymmetric simple exclusion. <i>Stochastic and Stochastics Reports</i> , 1989, 27, 151-165. | 0.6 | 32 |
| 14 | Coexistence of Ordered and Disordered Phases in Potts Models in the Continuum. <i>Journal of Statistical Physics</i> , 2009, 134, 243-306. | 0.5 | 31 |
| 15 | Hydrodynamic limit in a particle system with topological interactions. <i>Arabian Journal of Mathematics</i> , 2014, 3, 381-417. | 0.4 | 27 |
| 16 | Asymptotic Equivalence of Fluctuation Fields for Reversible Exclusion Processes with Speed Change. <i>Annals of Probability</i> , 1986, 14, 409. | 0.8 | 25 |
| 17 | Potts Models in the Continuum. Uniqueness and Exponential Decay in the Restricted Ensembles. <i>Journal of Statistical Physics</i> , 2008, 133, 281-345. | 0.5 | 24 |
| 18 | Quasi-Static Hydrodynamic Limits. <i>Journal of Statistical Physics</i> , 2015, 161, 1037-1058. | 0.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Latent heat and the Fourier law. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1710-1713. | 0.9 | 23 |
| 20 | Current Reservoirs in the Simple Exclusion Process. Journal of Statistical Physics, 2011, 144, 1151-1170. | 0.5 | 21 |
| 21 | Particle Models with Self Sustained Current. Journal of Statistical Physics, 2017, 167, 1081-1111. | 0.5 | 21 |
| 22 | Glauber evolution with Kac potentials: III. Spinodal decomposition. Nonlinearity, 1996, 9, 53-114. | 0.6 | 20 |
| 23 | Fourier Law, Phase Transitions and the Stationary Stefan Problem. Archive for Rational Mechanics and Analysis, 2011, 201, 681-725. | 1.1 | 20 |
| 24 | Microscopic models for uphill diffusion. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 435002. | 0.7 | 20 |
| 25 | Collective phenomena in interacting particle systems. Stochastic Processes and Their Applications, 1987, 25, 137-152. | 0.4 | 18 |
| 26 | Super-Hydrodynamic Limit in Interacting Particle Systems. Journal of Statistical Physics, 2014, 155, 867-887. | 0.5 | 17 |
| 27 | Nonequilibrium fluctuations in particle systems modelling reaction-diffusion equations. Stochastic Processes and Their Applications, 1992, 42, 1-30. | 0.4 | 16 |
| 28 | Small deviations from local equilibrium for a process which exhibits hydrodynamical behavior. II. Journal of Statistical Physics, 1982, 29, 81-93. | 0.5 | 15 |
| 29 | Glauber evolution with Kac potentials: II. Fluctuations. Nonlinearity, 1996, 9, 27-51. | 0.6 | 15 |
| 30 | Flux Fluctuations in the One Dimensional Nearest Neighbors Symmetric Simple Exclusion Process. Journal of Statistical Physics, 2002, 107, 677-683. | 0.5 | 15 |
| 31 | Spatial Patterns when Phases Separate in an Interacting Particle System. Annals of Probability, 1994, 22, 334. | 0.8 | 14 |
| 32 | Interface Fluctuations and Couplings in the D=1 Ginzburg-Landau Equation with Noise. Journal of Theoretical Probability, 1998, 11, 25-80. | 0.4 | 14 |
| 33 | 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 |
| 34 | A microscopic model of interface related to the Burgers equation. Journal of Statistical Physics, 1989, 55, 601-609. | 0.5 | 12 |
| 35 | A stochastic particle system modeling the Carleman equation. Journal of Statistical Physics, 1989, 55, 625-638. | 0.5 | 12 |
| 36 | Truncated correlations in the stirring process with births and deaths. Electronic Journal of Probability, 2012, 17, . | 0.5 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Free Boundary Problems in PDEs and Particle Systems. SpringerBriefs in Mathematical Physics, 2016, , . | 0.1 | 12 |
| 38 | Hydrodynamics of the N-BBM Process. Springer Proceedings in Mathematics and Statistics, 2019, , 523-549. | 0.1 | 12 |
| 39 | Small deviations from local equilibrium for a process which exhibits hydrodynamical behavior. I. Journal of Statistical Physics, 1982, 29, 57-79. | 0.5 | 11 |
| 40 | Interface Instability under Forced Displacements. Annales Henri Poincare, 2006, 7, 471-511. | 0.8 | 10 |
| 41 | Non-equilibrium Stationary States in the Symmetric Simple Exclusion with Births and Deaths. Journal of Statistical Physics, 2012, 147, 519-528. | 0.5 | 10 |
| 42 | Energy levels of a nonlocal functional. Journal of Mathematical Physics, 2005, 46, 083302. | 0.5 | 8 |
| 43 | Symmetric simple exclusion process with free boundaries. Probability Theory and Related Fields, 2015, 161, 155-193. | 0.9 | 8 |
| 44 | Slow Motion and Metastability for a Nonlocal Evolution Equation. Journal of Statistical Physics, 2003, 112, 709-764. | 0.5 | 7 |
| 45 | Tunnelling in Nonlocal Evolution Equations. Journal of Nonlinear Mathematical Physics, 2005, 12, 50. | 0.8 | 7 |
| 46 | Tunneling in Two Dimensions. Communications in Mathematical Physics, 2006, 269, 715-763. | 1.0 | 7 |
| 47 | A Note on Fick's Law with Phase Transitions. Journal of Statistical Physics, 2019, 175, 203-211. | 0.5 | 6 |
| 48 | Separation versus diffusion in a two species system. Brazilian Journal of Probability and Statistics, 2015, 29, . | 0.1 | 5 |
| 49 | One-dimensional DLR invariant measures are regular. Communications in Mathematical Physics, 1979, 67, 43-50. | 1.0 | 4 |
| 50 | Kinetic limits of the HPP cellular automaton. Journal of Statistical Physics, 1992, 66, 403-464. | 0.5 | 3 |
| 51 | Exponential rate of convergence in current reservoirs. Bernoulli, 2015, 21, . | 0.7 | 2 |
| 52 | Extinction time for a random walk in a random environment. Bernoulli, 2015, 21, . | 0.7 | 2 |
| 53 | Interface Fluctuations in Non Equilibrium Stationary States: The SOS Approximation. Journal of Statistical Physics, 2020, 180, 414-426. | 0.5 | 2 |
| 54 | Reservoirs, Fick law, and the Darken effect. Journal of Mathematical Physics, 2021, 62, 073301. | 0.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Spin Systems with Long Range Interactions. , 2003, , 25-81. | | 2 |
| 56 | Rigorous Derivation of Reaction-Diffusion Equations with Fluctuations.. Physical Review Letters, 1986, 56, 1317-1317. | 2.9 | 1 |
| 57 | Stability of invariant manifolds in one and two dimensions. Nonlinearity, 2007, 20, 537-582. | 0.6 | 1 |
| 58 | Quasi-static large deviations. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2020, 56, . | 0.7 | 1 |
| 59 | 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 |
| 60 | Other Models. SpringerBriefs in Mathematical Physics, 2016, , 101-107. | 0.1 | 0 |
| 61 | Quasi-static limit for the asymmetric simple exclusion. Probability Theory and Related Fields, 2022, 183, 1075-1117. | 0.9 | 0 |