

# Rossana Marra

## List of Publications by Year in descending order

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45  
papers

666  
citations

623734

14  
h-index

580821

25  
g-index

46  
all docs

46  
docs citations

46  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Isothermal Boundary in the Boltzmann Theory and Fourier Law. Communications in Mathematical Physics, 2013, 323, 177-239.	2.2	93
2	Hydrodynamic limit of the stationary Boltzmann equation in a slab. Communications in Mathematical Physics, 1994, 160, 49-80.	2.2	61
3	Macroscopic evolution of particle systems with short- and long-range interactions. Nonlinearity, 2000, 13, 2143-2162.	1.4	43
4	The Navier-Stokes limit of stationary solutions of the nonlinear Boltzmann equation. Journal of Statistical Physics, 1995, 78, 389-412.	1.2	38
5	Title is missing!. Journal of Statistical Physics, 2000, 101, 1087-1136.	1.2	31
6	Discrete stochastic variational principles and quantum mechanics. Physical Review D, 1984, 29, 1647-1655.	4.7	30
7	Origin of the quantum observable operator algebra in the frame of stochastic mechanics. Physical Review D, 1983, 28, 1916-1921.	4.7	29
8	Hydrodynamic limits of the vlasov equation. Communications in Partial Differential Equations, 1993, 18, 805-820.	2.2	29
9	Navier-Stokes equations for stochastic particle systems on the lattice. Communications in Mathematical Physics, 1996, 182, 395-455.	2.2	26
10	The milne problem with a force term. Transport Theory and Statistical Physics, 1998, 27, 1-33.	0.4	23
11	Free energy minimizers for a two-species model with segregation and liquid-liquid vapour transition. Nonlinearity, 2003, 16, 1075-1105.	1.4	21
12	On the derivation of the incompressible Navier-Stokes equation for Hamiltonian particle systems. Journal of Statistical Physics, 1994, 74, 981-1004.	1.2	20
13	Variational principles for conservative and dissipative diffusions. Physical Review D, 1987, 36, 1724-1730.	4.7	17
14	Droplet minimizers for the Cahn-Hilliard free energy functional. Journal of Geometric Analysis, 2006, 16, 233-264.	1.0	15
15	Phase Transition in a Vlasov-Boltzmann Binary Mixture. Communications in Mathematical Physics, 2010, 296, 1-33.	2.2	15
16	Stability of the Front under a Vlasov-Fokker-Planck Dynamics. Archive for Rational Mechanics and Analysis, 2010, 195, 75-116.	2.4	14
17	Stability for Rayleigh-Benard Convective Solutions of the Boltzmann Equation. Archive for Rational Mechanics and Analysis, 2010, 198, 125-187.	2.4	14
18	Hydrodynamic Limit of a Kinetic Gas Flow Past an Obstacle. Communications in Mathematical Physics, 2018, 364, 765-823.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Solutions to the Boltzmann Equation in the Boussinesq Regime. <i>Journal of Statistical Physics</i> , 1998, 90, 1129-1178.	1.2	12
20	Ghost effect by curvature in planar Couette flow. <i>Kinetic and Related Models</i> , 2011, 4, 109-138.	0.9	12
21	Kinetics of a Model Weakly Ionized Plasma in the Presence of Multiple Equilibria. <i>Archive for Rational Mechanics and Analysis</i> , 1998, 142, 193-218.	2.4	11
22	Droplet minimizers for the Ginzburg-Landau-Penrose free energy functional. <i>Nonlinearity</i> , 2009, 22, 2919-2952.	1.4	11
23	Phase transitions in equilibrium systems: microscopic models and mesoscopic free energies. <i>Molecular Physics</i> , 2005, 103, 3141-3151.	1.7	10
24	Hydrodynamics of Binary Fluid Phase Segregation. <i>Physical Review Letters</i> , 2002, 89, 235701.	7.8	8
25	Stochastic mechanics of spin-1/2 particles. <i>Physical Review D</i> , 1984, 30, 2579-2584.	4.7	7
26	Displacement Convexity and Minimal Fronts at Phase Boundaries. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 823-847.	2.4	7
27	Approach to the Steady State in Kinetic Models with Thermal Reservoirs at Different Temperatures. <i>Journal of Statistical Physics</i> , 2018, 172, 522-543.	1.2	7
28	Navier-Stokes equations for stochastic lattice gases. <i>Physical Review E</i> , 1996, 53, 4486-4489.	2.1	5
29	10.1007/s10955-006-9040-z. <i>Journal of Statistical Physics</i> , 2006, 124, 445-483.	1.2	5
30	Phase segregation and interface dynamics in kinetic systems. <i>Nonlinearity</i> , 2006, 19, 115-147.	1.4	5
31	Configuration Spaces for Quantum Spinning Particles. <i>Physical Review Letters</i> , 1983, 50, 1715-1718.	7.8	4
32	Nonunique stationary states in driven collisional systems with application to plasmas. <i>Physical Review E</i> , 1995, 52, R40-R43.	2.1	4
33	Propagation of Chaos for a Thermostated Kinetic Model. <i>Journal of Statistical Physics</i> , 2014, 154, 265-285.	1.2	4
34	Uniqueness of the Non-Equilibrium Steady State for a 1d BGK Model in Kinetic Theory. <i>Acta Applicandae Mathematicae</i> , 2020, 169, 99-124.	1.0	4
35	Diffusive limit for a Boltzmann-like equation with non-conserved momentum. <i>Nonlinearity</i> , 2019, 32, 4834-4852.	1.4	3
36	Exponential stability of the solutions to the Boltzmann equation for the Benard problem. <i>Kinetic and Related Models</i> , 2012, 5, 673-695.	0.9	3

#	ARTICLE	IF	CITATIONS
37	A remark on a possible form of spin-statistics theorem in non-relativistic quantum mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 141, 93-94.	4.1	2
38	Probabilistic approach to the Navier-Stokes equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 148, 41-44.	2.1	2
39	Navier-Stokes Limit for a Thermal Stochastic Lattice Gas. Journal of Statistical Physics, 1999, 96, 653-713.	1.2	2
40	A KINETIC MODEL OF INTERFACE MOTION. International Journal of Modern Physics B, 2004, 18, 715-724.	2.0	2
41	Stability of a Vlasov-Boltzmann binary mixture at the phase transition on an interval. Kinetic and Related Models, 2013, 6, 761-787.	0.9	2
42	Validity of the Boltzmann equation with an external force. Kinetic and Related Models, 2011, 4, 499-515.	0.9	1
43	On a relation between percolation and phase transition in the gauge invariant Ising model. Journal of Mathematical Physics, 1983, 24, 913-916.	1.1	0
44	Mesoscopic Analysis of Droplets in Lattice Systems with Long-Range Kac Potentials. Acta Applicandae Mathematicae, 2013, 123, 221-237.	1.0	0
45	Kinetic modelling of late stages of phase separation. , 2007, , 195-214.		0