Raffaele Esposito

List of Publications by Year
in descending order

56	1,195	430874	395702
papers	citations	18	33
		h-index	g-index

57	57	57	392
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Uniqueness of the Non-Equilibrium Steady State for a 1d BGK Model in Kinetic Theory. Acta Applicandae Mathematicae, 2020, 169, 99-124.	1.0	4
2	Stationary Non equilibrium States in Kinetic Theory. Journal of Statistical Physics, 2020, 180, 773-809.	1.2	5
3	Diffusive limit for a Boltzmann-like equation with non-conserved momentum. Nonlinearity, 2019, 32, 4834-4852.	1.4	3
4	Stationary Solutions to the Boltzmann Equation in the Hydrodynamic Limit. Annals of PDE, 2018, 4, 1.	1.8	54
5	Hydrodynamic Limit of a Kinetic Gas Flow Past an Obstacle. Communications in Mathematical Physics, 2018, 364, 765-823.	2.2	14
6	Approach to the Steady State in Kinetic Models with Thermal Reservoirs at Different Temperatures. Journal of Statistical Physics, 2018, 172, 522-543.	1.2	7
7	Equilibria of a clamped Euler beam (<i>Elastica</i>) with distributed load: Large deformations. Mathematical Models and Methods in Applied Sciences, 2017, 27, 1391-1421.	3.3	33
8	Macroscopic Description of Microscopically Strongly Inhomogenous Systems: A Mathematical Basis for the Synthesis of Higher Gradients Metamaterials. Archive for Rational Mechanics and Analysis, 2015, 218, 1239-1262.	2.4	126
9	Propagation of Chaos for a Thermostated Kinetic Model. Journal of Statistical Physics, 2014, 154, 265-285.	1.2	4
10	Non-Isothermal Boundary in the Boltzmann Theory and Fourier Law. Communications in Mathematical Physics, 2013, 323, 177-239.	2.2	93
11	Mesoscopic Analysis of Droplets in Lattice Systems with Long-Range Kac Potentials. Acta Applicandae Mathematicae, 2013, 123, 221-237.	1.0	0
12	Froth-like Minimizers of a Non-Local Free Energy Functional with Competing Interactions. Communications in Mathematical Physics, 2013, 322, 593-632.	2.2	2
13	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
14	Transport coefficients in the 2-dimensional Boltzmann equation. Kinetic and Related Models, 2013, 6, 789-800.	0.9	0
15	Exponential stability of the solutions to the Boltzmann equation for the Benard problem. Kinetic and Related Models, 2012, 5, 673-695.	0.9	3
16	Ghost effect by curvature in planar Couette flow. Kinetic and Related Models, 2011, 4, 109-138.	0.9	12
17	Validity of the Boltzmann equation with an external force. Kinetic and Related Models, 2011, 4, 499-515.	0.9	1
18	Stability of the Front under a Vlasov–Fokker–Planck Dynamics. Archive for Rational Mechanics and Analysis, 2010, 195, 75-116.	2.4	14

#	Article	IF	Citations
19	Stability for Rayleighâ€"Benard Convective Solutions of the Boltzmann Equation. Archive for Rational Mechanics and Analysis, 2010, 198, 125-187.	2.4	14
20	Phase Transition in a Vlasov-Boltzmann Binary Mixture. Communications in Mathematical Physics, 2010, 296, 1-33.	2.2	15
21	Rigorous validity of the Boltzmann equation for a thin layer of a rarefied gas. Kinetic and Related Models, 2010, 3, 281-297.	0.9	2
22	Droplet minimizers for the Gatesâ€"Lebowitzâ€"Penrose free energy functional. Nonlinearity, 2009, 22, 2919-2952.	1.4	11
23	Displacement Convexity and Minimal Fronts at Phase Boundaries. Archive for Rational Mechanics and Analysis, 2009, 194, 823-847.	2.4	7
24	From the N-body SchrÃ¶dinger Equation to the Quantum Boltzmann Equation: a Term-by-Term Convergence Result in the Weak Coupling Regime. Communications in Mathematical Physics, 2007, 277, 1-44.	2.2	28
25	Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation II: The Low Density Regime. Journal of Statistical Physics, 2006, 124, 951-996.	1.2	17
26	10.1007/s10955-006-9040-z. Journal of Statistical Physics, 2006, 124, 445-483.	1.2	5
27	Droplet minimizers for the Cahn-Hilliard free energy functional. Journal of Geometric Analysis, 2006, 16, 233-264.	1.0	15
28	Phase transitions in equilibrium systems: microscopic models and mesoscopic free energies. Molecular Physics, 2005, 103, 3141-3151.	1.7	10
29	ON THE WEAK-COUPLING LIMIT FOR BOSONS AND FERMIONS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1811-1843.	3.3	33
30	From Particles to Fluids. Handbook of Mathematical Fluid Dynamics, 2005, 3, 1-82.	0.1	14
31	Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation. Journal of Statistical Physics, 2004, 116, 381-410.	1.2	38
32	Fluctuations Ã l'Ã©quilibre pour des gaz rÃ©ticulÃ©s. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2003, 39, 743-777.	1.1	3
33	Free energy minimizers for a two-species model with segregation and liquidÂvapour transition. Nonlinearity, 2003, 16, 1075-1105.	1.4	21
34	Scaling Laws: Microscopic and Macroscopic Behavior. , 2003, , 79-85.		0
35	Hydrodynamics of Binary Fluid Phase Segregation. Physical Review Letters, 2002, 89, 235701.	7.8	8
36	Title is missing!. Journal of Statistical Physics, 2000, 101, 1087-1136.	1.2	31

#	Article	IF	Citations
37	Navier–Stokes Limit for a Thermal Stochastic Lattice Gas. Journal of Statistical Physics, 1999, 96, 653-713.	1.2	2
38	The Boltzmann Equation for a One-Dimensional Quantum Lorentz Gas. Communications in Mathematical Physics, 1999, 204, 619-649.	2.2	14
39	On the derivation of hydrodynamics from the Boltzmann equation. Physics of Fluids, 1999, 11, 2354-2366.	4.0	29
40	Solutions to the Boltzmann Equation in the Boussinesq Regime. Journal of Statistical Physics, 1998, 90, 1129-1178.	1.2	12
41	Kinetics of a Model Weakly Ionized Plasma in the Presence of Multiple Equilibria. Archive for Rational Mechanics and Analysis, 1998, 142, 193-218.	2.4	11
42	The milne problem with a force term. Transport Theory and Statistical Physics, 1998, 27, 1-33.	0.4	23
43	Navier-Stokes equations for stochastic particle systems on the lattice. Communications in Mathematical Physics, 1996, 182, 395-455.	2.2	26
44	The Navier-Stokes limit of the stationary boltzmann equation for hard potentials. Journal of Statistical Physics, 1996, 84, 859-873.	1.2	10
45	Navier-Stokes equations for stochastic lattice gases. Physical Review E, 1996, 53, 4486-4489.	2.1	5
46	The Navier-Stokes limit of stationary solutions of the nonlinear Boltzmann equation. Journal of Statistical Physics, 1995, 78, 389-412.	1.2	38
47	Nonunique stationary states in driven collisional systems with application to plasmas. Physical Review E, 1995, 52, R40-R43.	2.1	4
48	DIFFUSIVE LIMIT OF ASYMMETRIC SIMPLE EXCLUSION. Reviews in Mathematical Physics, 1994, 06, 1233-1267.	1.7	39
49	Hydrodynamic limit of the stationary Boltzmann equation in a slab. Communications in Mathematical Physics, 1994, 160, 49-80.	2.2	61
50	On the derivation of the incompressible Mavier-Stokes equation for Hamiltonian particle systems. Journal of Statistical Physics, 1994, 74, 981-1004.	1.2	20
51	Diffusive Limit of the Asymmetric Simple Exclusion: The Navier-Stokes Correction. NATO ASI Series Series B: Physics, 1994, , 43-51.	0.2	3
52	Kinetic limits of the HPP cellular automaton. Journal of Statistical Physics, 1992, 66, 403-464.	1.2	3
53	Incompressible navier-stokes and euler limits of the boltzmann equation. Communications on Pure and Applied Mathematics, 1989, 42, 1189-1214.	3.1	152
54	Hydrodynamics of stochastic cellular automata. Communications in Mathematical Physics, 1989, 125, 127-145.	2.2	18

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55	The Boltzmann equation for weakly inhomogeneous data. Communications in Mathematical Physics, 1987, 111, 393-407.	2.2	60
56	Planar Navier-Stokes flow for singular initial data. Nonlinear Analysis: Theory, Methods & Applications, 1985, 9, 533-545.	1.1	16