

Raffaele Esposito

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,195
citations

430874

18
h-index

395702

33
g-index

57
all docs

57
docs citations

57
times ranked

392
citing authors

#	ARTICLE	IF	CITATIONS
1	Incompressible navier-stokes and euler limits of the boltzmann equation. Communications on Pure and Applied Mathematics, 1989, 42, 1189-1214.	3.1	152
2	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
3	Non-Isothermal Boundary in the Boltzmann Theory and Fourier Law. Communications in Mathematical Physics, 2013, 323, 177-239.	2.2	93
4	Hydrodynamic limit of the stationary Boltzmann equation in a slab. Communications in Mathematical Physics, 1994, 160, 49-80.	2.2	61
5	The Boltzmann equation for weakly inhomogeneous data. Communications in Mathematical Physics, 1987, 111, 393-407.	2.2	60
6	Stationary Solutions to the Boltzmann Equation in the Hydrodynamic Limit. Annals of PDE, 2018, 4, 1.	1.8	54
7	DIFFUSIVE LIMIT OF ASYMMETRIC SIMPLE EXCLUSION. Reviews in Mathematical Physics, 1994, 06, 1233-1267.	1.7	39
8	The Navier-Stokes limit of stationary solutions of the nonlinear Boltzmann equation. Journal of Statistical Physics, 1995, 78, 389-412.	1.2	38
9	Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation. Journal of Statistical Physics, 2004, 116, 381-410.	1.2	38
10	ON THE WEAK-COUPPLING LIMIT FOR BOSONS AND FERMIONS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1811-1843.	3.3	33
11	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
12	Title is missing!. Journal of Statistical Physics, 2000, 101, 1087-1136.	1.2	31
13	On the derivation of hydrodynamics from the Boltzmann equation. Physics of Fluids, 1999, 11, 2354-2366.	4.0	29
14	From the N-body Schrödinger 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
15	Navier-Stokes equations for stochastic particle systems on the lattice. Communications in Mathematical Physics, 1996, 182, 395-455.	2.2	26
16	The milne problem with a force term. Transport Theory and Statistical Physics, 1998, 27, 1-33.	0.4	23
17	Free energy minimizers for a two-species model with segregation and liquid-vapour transition. Nonlinearity, 2003, 16, 1075-1105.	1.4	21
18	On the derivation of the incompressible Navier-Stokes equation for Hamiltonian particle systems. Journal of Statistical Physics, 1994, 74, 981-1004.	1.2	20

#	ARTICLE	IF	CITATIONS
19	Hydrodynamics of stochastic cellular automata. <i>Communications in Mathematical Physics</i> , 1989, 125, 127-145.	2.2	18
20	Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation II: The Low Density Regime. <i>Journal of Statistical Physics</i> , 2006, 124, 951-996.	1.2	17
21	Planar Navier-Stokes flow for singular initial data. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1985, 9, 533-545.	1.1	16
22	Droplet minimizers for the Cahn-Hilliard free energy functional. <i>Journal of Geometric Analysis</i> , 2006, 16, 233-264.	1.0	15
23	Phase Transition in a Vlasov-Boltzmann Binary Mixture. <i>Communications in Mathematical Physics</i> , 2010, 296, 1-33.	2.2	15
24	The Boltzmann Equation for a One-Dimensional Quantum Lorentz Gas. <i>Communications in Mathematical Physics</i> , 1999, 204, 619-649.	2.2	14
25	From Particles to Fluids. <i>Handbook of Mathematical Fluid Dynamics</i> , 2005, 3, 1-82.	0.1	14
26	Stability of the Front under a Vlasov-Fokker-Planck Dynamics. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 195, 75-116.	2.4	14
27	Stability for Rayleigh-Benard Convective Solutions of the Boltzmann Equation. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 198, 125-187.	2.4	14
28	Hydrodynamic Limit of a Kinetic Gas Flow Past an Obstacle. <i>Communications in Mathematical Physics</i> , 2018, 364, 765-823.	2.2	14
29	Solutions to the Boltzmann Equation in the Boussinesq Regime. <i>Journal of Statistical Physics</i> , 1998, 90, 1129-1178.	1.2	12
30	Ghost effect by curvature in planar Couette flow. <i>Kinetic and Related Models</i> , 2011, 4, 109-138.	0.9	12
31	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
32	Droplet minimizers for the Ginzburg-Landau free energy functional. <i>Nonlinearity</i> , 2009, 22, 2919-2952.	1.4	11
33	The Navier-Stokes limit of the stationary Boltzmann equation for hard potentials. <i>Journal of Statistical Physics</i> , 1996, 84, 859-873.	1.2	10
34	Phase transitions in equilibrium systems: microscopic models and mesoscopic free energies. <i>Molecular Physics</i> , 2005, 103, 3141-3151.	1.7	10
35	Hydrodynamics of Binary Fluid Phase Segregation. <i>Physical Review Letters</i> , 2002, 89, 235701.	7.8	8
36	Displacement Convexity and Minimal Fronts at Phase Boundaries. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 823-847.	2.4	7

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37	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
38	Navier-Stokes equations for stochastic lattice gases. Physical Review E, 1996, 53, 4486-4489.	2.1	5
39	10.1007/s10955-006-9040-z. Journal of Statistical Physics, 2006, 124, 445-483.	1.2	5
40	Stationary Non equilibrium States in Kinetic Theory. Journal of Statistical Physics, 2020, 180, 773-809.	1.2	5
41	Nonunique stationary states in driven collisional systems with application to plasmas. Physical Review E, 1995, 52, R40-R43.	2.1	4
42	Propagation of Chaos for a Thermostated Kinetic Model. Journal of Statistical Physics, 2014, 154, 265-285.	1.2	4
43	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
44	Kinetic limits of the HPP cellular automaton. Journal of Statistical Physics, 1992, 66, 403-464.	1.2	3
45	Fluctuations à l'équilibre pour des gaz réticulés. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2003, 39, 743-777.	1.1	3
46	Diffusive limit for a Boltzmann-like equation with non-conserved momentum. Nonlinearity, 2019, 32, 4834-4852.	1.4	3
47	Exponential stability of the solutions to the Boltzmann equation for the Benard problem. Kinetic and Related Models, 2012, 5, 673-695.	0.9	3
48	Diffusive Limit of the Asymmetric Simple Exclusion: The Navier-Stokes Correction. NATO ASI Series Series B: Physics, 1994, , 43-51.	0.2	3
49	Navier-Stokes Limit for a Thermal Stochastic Lattice Gas. Journal of Statistical Physics, 1999, 96, 653-713.	1.2	2
50	Froth-like Minimizers of a Non-Local Free Energy Functional with Competing Interactions. Communications in Mathematical Physics, 2013, 322, 593-632.	2.2	2
51	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
52	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
53	Validity of the Boltzmann equation with an external force. Kinetic and Related Models, 2011, 4, 499-515.	0.9	1
54	Mesoscopic Analysis of Droplets in Lattice Systems with Long-Range Kac Potentials. Acta Applicandae Mathematicae, 2013, 123, 221-237.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Scaling Laws: Microscopic and Macroscopic Behavior. , 2003, , 79-85.		0
56	Transport coefficients in the d -dimensional Boltzmann equation. Kinetic and Related Models, 2013, 6, 789-800.	0.9	0