Raffaele Esposito

List of Publications by Year
in descending order

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43	822	567281	501196
papers	citations	15 h-index	28 g-index

44	44	44	324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of the third-generation lead-based neutron spallation target for the neutron time-of-flight facility at CERN. Physical Review Accelerators and Beams, 2021, 24, .	1.6	17
2	Design of the third-generation neutron spallation target for the CERNâ€™s n_TOF facility. Journal of Neutron Research, 2020, 22, 221-231.	1.1	9
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 (Elastica) 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 Vlasovâ€“Fokkerâ€“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	From Particles to Fluids. Handbook of Mathematical Fluid Dynamics, 2005, 3, 1-82.	0.1	14
30	Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation. Journal of Statistical Physics, 2004, 116, 381-410.	1.2	38
31	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
32	Free energy minimizers for a two-species model with segregation and liquidÂvapour transition. Nonlinearity, 2003, 16, 1075-1105.	1.4	21
33	Scaling Laws: Microscopic and Macroscopic Behavior. , 2003, , 79-85.		0
34	Hydrodynamics of Binary Fluid Phase Segregation. Physical Review Letters, 2002, 89, 235701.	7.8	8
35	The Navier-Stokes limit of stationary solutions of the nonlinear Boltzmann equation. Journal of Statistical Physics, 1995, 78, 389-412.	1.2	38
36	Nonunique stationary states in driven collisional systems with application to plasmas. Physical Review E, 1995, 52, R40-R43.	2.1	4

#	Article	IF	Citations
37	Hydrodynamic limit of the stationary Boltzmann equation in a slab. Communications in Mathematical Physics, 1994, 160, 49-80.	2.2	61
38	On the derivation of the incompressible Mavier-Stokes equation for Hamiltonian particle systems. Journal of Statistical Physics, 1994, 74, 981-1004.	1.2	20
39	Kinetic limits of the HPP cellular automaton. Journal of Statistical Physics, 1992, 66, 403-464.	1.2	3
40	Hydrodynamics of stochastic cellular automata. Communications in Mathematical Physics, 1989, 125, 127-145.	2.2	18
41	The Boltzmann equation for weakly inhomogeneous data. Communications in Mathematical Physics, 1987, 111, 393-407.	2.2	60
42	Planar Navier-Stokes flow for singular initial data. Nonlinear Analysis: Theory, Methods & Applications, 1985, 9, 533-545.	1.1	16
43	Gibb's variational principles for the equilibrium of continuous systems with an interface. Zeitschrift Fur Angewandte Mathematik Und Physik, 1984, 35, 460-469.	1.4	0