ClÃ©ment Mouhot

List of Publications by Year
in descending order

39 papers	1,904 citations	331670 21 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	706 citing authors

#	Article	IF	Citations
1	Weighted Korn and PoincarÃ©-Korn Inequalities in the Euclidean Space and Associated Operators. Archive for Rational Mechanics and Analysis, 2022, 243, 1565.	2.4	0
2	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
3	Gaussian Lower Bounds for the Boltzmann Equation without Cutoff. SIAM Journal on Mathematical Analysis, 2020, 52, 2930-2944.	1.9	15
4	Hypocoercivity without confinement. Pure and Applied Analysis, 2020, 2, 203-232.	1.1	20
5	From Boltzmann to incompressible Navierâ€“Stokes in Sobolev spaces with polynomial weight. Analysis and Applications, 2019, 17, 85-116.	2.2	22
6	Long time behavior in locally activated random walks. Communications in Mathematical Sciences, 2019, 17, 1071-1094.	1.0	1
7	Landau Damping in Finite Regularity for Unconfined Systems with Screened Interactions. Communications on Pure and Applied Mathematics, 2018, 71, 537-576.	3.1	25
8	Exponential Decay to Equilibrium for a Fiber Lay-Down Process on a Moving Conveyor Belt. SIAM Journal on Mathematical Analysis, 2017, 49, 3233-3251.	1.9	9
9	Exponential Stability of Slowly Decaying Solutions to the Kinetic-Fokker-Planck Equation. Archive for Rational Mechanics and Analysis, 2016, 221, 677-723.	2.4	35
10	On the Mean Field and Classical Limits of Quantum Mechanics. Communications in Mathematical Physics, 2016, 343, 165-205.	2.2	67
11	Landau Damping: Paraproducts and Gevrey Regularity. Annals of PDE, 2016, 2, 1.	1.8	57
12	Hypocoercivity for a Linearized Multispecies Boltzmann System. SIAM Journal on Mathematical Analysis, 2016, 48, 538-568.	1.9	20
13	Towards anH-theorem for granular gases. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P11009.	2.3	13
14	On measure solutions of the Boltzmann equation, Part II: Rate of convergence to equilibrium. Journal of Differential Equations, 2015, 258, 3742-3810.	2.2	8
15	Hypocoercivity for linear kinetic equations conserving mass. Transactions of the American Mathematical Society, 2015, 367, 3807-3828.	0.9	154
16	A new approach to quantitative propagation of chaos for drift, diffusion and jump processes. Probability Theory and Related Fields, 2015, 161, 1-59.	1.8	44
17	Lyapunov functionals for boundary-driven nonlinear driftâ€“diffusion equations. Nonlinearity, 2014, 27, 2111-2132.	1.4	21
18	Kacâ€™s program in kinetic theory. Inventiones Mathematicae, 2013, 193, 1-147.	2.5	95

#	ARTICLE	IF	CITATIONS
19	A New Approach to the Creation and Propagation of Exponential Moments in the Boltzmann Equation. Communications in Partial Differential Equations, 2013, 38, 155-169.	2.2	22
20	Empirical measures and Vlasov hierarchies. Kinetic and Related Models, 2013, 6, 919-943.	0.9	14
21	THE WIGNERâ€“FOKKERâ€“PLANCK EQUATION: STATIONARY STATES AND LARGE TIME BEHAVIOR. Mathematical Models and Methods in Applied Sciences, 2012, 22, .	3.3	15
22	On measure solutions of the Boltzmann equation, part I: Moment production and stability estimates. Journal of Differential Equations, 2012, 252, 3305-3363.	2.2	35
23	About KacÊ¼s program in kinetic theory. Comptes Rendus Mathematique, 2011, 349, 1245-1250.	0.3	3
24	On Landau damping. Acta Mathematica, 2011, 207, 29-201.	3.9	288
25	Fractional Diffusion Limit for Collisional Kinetic Equations. Archive for Rational Mechanics and Analysis, 2011, 199, 493-525.	2.4	106
26	Fractional PoincarÃ© inequalities for general measures. Journal Des Mathematiques Pures Et Appliquees, 2011, 95, 72-84.	1.6	21
27	Analysis of spectral methods for the homogeneous Boltzmann equation. Transactions of the American Mathematical Society, 2011, 363, 1947-1947.	0.9	31
28	Rate of Convergence to Self-Similarity for Smoluchowski's Coagulation Equation with Constant Coefficients. SIAM Journal on Mathematical Analysis, 2010, 41, 2283-2314.	1.9	9
29	Stability and Uniqueness for the Spatially Homogeneous Boltzmann Equation with Long-Range Interactions. Archive for Rational Mechanics and Analysis, 2009, 193, 227-253.	2.4	34
30	On the Well-Posedness of the Spatially Homogeneous Boltzmann Equation with a Moderate Angular Singularity. Communications in Mathematical Physics, 2009, 289, 803-824.	2.2	28
31	Spectral gap and coercivity estimates for linearized Boltzmann collision operators without angular cutoff. Journal Des Mathematiques Pures Et Appliquees, 2007, 87, 515-535.	1.6	77
32	Quantitative Linearized Study of the Boltzmann Collision Operator and Applications. Communications in Mathematical Sciences, 2007, 5, 73-86.	1.0	8
33	Fast algorithms for computing the Boltzmann collision operator. Mathematics of Computation, 2006, 75, 1833-1852.	2.1	128
34	Rate of Convergence to Equilibrium for the Spatially Homogeneous Boltzmann Equation with Hard Potentials. Communications in Mathematical Physics, 2006, 261, 629-672.	2.2	86
35	Explicit Coercivity Estimates for the Linearized Boltzmann and Landau Operators. Communications in Partial Differential Equations, 2006, 31, 1321-1348.	2.2	77
36	Quantitative perturbative study of convergence to equilibrium for collisional kinetic models in the torus. Nonlinearity, 2006, 19, 969-998.	1.4	114

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37	Solving the Boltzmann Equation in N log2N. SIAM Journal of Scientific Computing, 2006, 28, 1029-1053.	2.8	82
38	Quantitative Lower Bounds for the Full Boltzmann Equation, Part I: Periodic Boundary Conditions. Communications in Partial Differential Equations, 2005, 30, 881-917.	2.2	30
39	Regularity Theory for the Spatially Homogeneous Boltzmann Equation with Cut-Off. Archive for Rational Mechanics and Analysis, 2004, 173, 169-212.	2.4	86