Claude Bardos

List of Publications by Year in descending order

51 papers	3,185 citations	331670 21 h-index	189892 50 g-index
52 all docs	52 docs citations	52 times ranked	965 citing authors

#	Article	IF	Citations
1	The radiative transfer model for the greenhouse effect. SeMA Journal, 2022, 79, 489-525.	2.0	4
2	Diffusion limit of the Vlasov equation in the weak turbulent regime. Journal of Mathematical Physics, 2021, 62, 101505.	1.1	1
3	Onsagerâ€™s Conjecture with Physical Boundaries and an Application to the Vanishing Viscosity Limit. Communications in Mathematical Physics, 2019, 370, 291-310.	2.2	35
4	On the Extension of Onsagerâ€™s Conjecture for General Conservation Laws. Journal of Nonlinear Science, 2019, 29, 501-510.	2.1	17
5	Onsager-type conjecture and renormalized solutions for the relativistic Vlasovâ€“Maxwell system. Quarterly of Applied Mathematics, 2019, 78, 193-217.	0.7	6
6	Onsagerâ€™s Conjecture for the Incompressible Euler Equations in Bounded Domains. Archive for Rational Mechanics and Analysis, 2018, 228, 197-207.	2.4	56
7	Kinetic Equations: A French History. EMS Newsletter, 2018, 2018-9, 10-18.	0.1	3
8	Observation estimate for kinetic transport equations by diffusion approximation. Comptes Rendus Mathematique, 2017, 355, 640-664.	0.3	12
9	Simultaneous diffusion and homogenization asymptotic for the linear Boltzmann equation. Asymptotic Analysis, 2016, 100, 111-130.	0.5	2
10	Short-time heat diffusion in compact domains with discontinuous transmission boundary conditions. Mathematical Models and Methods in Applied Sciences, 2016, 26, 59-110.	3.3	9
11	On the classical limit of the SchrÃ¶dinger equation. Discrete and Continuous Dynamical Systems, 2015, 35, 5689-5709.	0.9	3
12	Hamiltonian Evolution of Monokinetic Measures with Rough Momentum Profile. Archive for Rational Mechanics and Analysis, 2015, 217, 71-111.	2.4	3
13	Hamiltonian Structure, Fluid Representation and Stability for the Vlasovâ€“Diracâ€“Benney Equation. Fields Institute Communications, 2015, , 1-30.	1.3	7
14	The diffusion approximation for the linear Boltzmann equation with vanishing scattering coefficient. Communications in Mathematical Sciences, 2015, 13, 641-671.	1.0	7
15	The Cauchy problem for the Vlasov-Dirac-Benney equation and related issues in fluid mechanics and semi-classical limits. Kinetic and Related Models, 2013, 6, 893-917.	0.9	23
16	A Vlasov equation with Dirac potential used in fusion plasmas. Journal of Mathematical Physics, 2012, 53, .	1.1	23
17	The Classification of Well-Posed Kinetic Boundary Layer for Hard Sphere Gas Mixtures. Communications in Partial Differential Equations, 2012, 37, 1286-1314.	2.2	10
18	Setting and Analysis of the Multi-configuration Time-dependent Hartreeâ€“Fock Equations. Archive for Rational Mechanics and Analysis, 2010, 198, 273-330.	2.4	21

#	Article	IF	Citations
19	Entire Solutions of Hydrodynamical Equations with Exponential Dissipation. Communications in Mathematical Physics, 2010, 293, 519-543.	2.2	11
20	Global regularity and convergence of a Birkhoffâ€Rottâ€Î± approximation of the dynamics of vortex sheets of the twoâ€dimensional Euler equations. Communications on Pure and Applied Mathematics, 2010, 63, 697-746.	3.1	12
21	Loss of smoothness and energy conserving rough weak solutions for the $3d$ Euler equations. Discrete and Continuous Dynamical Systems - Series S, 2010, 3, 185-197.	1.1	31
22	Global-in-time existence of solutions to the multiconfiguration time-dependent Hartreeâ€“Fock equations: A sufficient condition. Applied Mathematics Letters, 2009, 22, 147-152.	2.7	9
23	Global regularity for a Birkhoffâ€“Rott- approximation of the dynamics of vortex sheets of the 2D Euler equations. Physica D: Nonlinear Phenomena, 2008, 237, 1905-1911.	2.8	14
24	Euler equations for incompressible ideal fluids. Russian Mathematical Surveys, 2007, 62, 409-451.	0.6	79
25	Half-Space Problems for the Boltzmann Equation: A Survey. Journal of Statistical Physics, 2006, 124, 275-300.	1.2	49
26	Sound-field modeling in architectural acoustics by a transport theory: Application to street canyons. Physical Review E, 2005, 72, 046609.	2.1	11
27	On the Derivation of Nonlinear SchrÃ¶dinger and Vlasov Equations. The IMA Volumes in Mathematics and Its Applications, 2004, , 1-23.	0.5	4
28	Knudsen Layer for Gas Mixtures. Journal of Statistical Physics, 2003, 112, 629-655.	1.2	58
29	Mean field dynamics of fermions andÂtheÂtime-dependentÂHartreeâ€“Fock equation. Journal Des Mathematiques Pures Et Appliquees, 2003, 82, 665-683.	1.6	84
30	Navier-Stokes Equations and Dynamical Systems. Handbook of Dynamical Systems, 2002, , 503-597.	0.6	3
31	Derivation of the SchrÃ¶dingerâ€“Poisson equation from the quantum -body problem. Comptes Rendus Mathematique, 2002, 334, 515-520.	0.3	74
32	A NOTE ON THE PROPAGATION OF BOUNDARY INDUCED DISCONTINUITIES IN KINETIC THEORY. Mathematical Models and Methods in Applied Sciences, 2001, 11, 1581-1595.	3.3	19
33	What Use for the Mathematical Theory of the Navier-Stokes Equations. , 2001, , 1-25.		2
34	Optimal control approach in inverse radiative transfer problems: the problem on boundary function. ESAIM - Control, Optimisation and Calculus of Variations, 2000, 5, 259-278.	1.3	7
35	The Acoustic Limit for the Boltzmann Equation. Archive for Rational Mechanics and Analysis, 2000, 153, 177-204.	2.4	74
36	Weak coupling limit of the N-particle SchrÃ¶dinger equation. Methods and Applications of Analysis, 2000, 7, 275-294.	0.5	107

#	Article	IF	Citations
37	Acoustic and Stokes limits for the Boltzmann equation. Comptes Rendus Mathematique, 1998, 327, 323-328.	0.5	30
38	Diffusion approximation for billiards with totally accommodating scatterers. Journal of Statistical Physics, 1997, 86, 351-375.	1.2	13
39	Diffusion approximation and hyperbolic automorphisms of the torus. Physica D: Nonlinear Phenomena, 1997, 104, 32-60.	2.8	9
40	Fluid dynamic limits of kinetic equations II convergence proofs for the boltzmann equation. Communications on Pure and Applied Mathematics, 1993, 46, 667-753.	3.1	276
41	Sharp Sufficient Conditions for the Observation, Control, and Stabilization of Waves from the Boundary. SIAM Journal on Control and Optimization, 1992, 30, 1024-1065.	2.1	1,030
42	Diffusion approximation for a Knudsen gas in a thin domain with accommodation on the boundary. Asymptotic Analysis, 1991, 3, 265-289.	0.5	30
43	Stabilisation de l'Ã©quation des ondes au moyen d'un feedback portant sur la condition aux limites de Dirichlet. Asymptotic Analysis, 1991, 4, 285-291.	0.5	18
44	Fluid dynamic limits of kinetic equations. I. Formal derivations. Journal of Statistical Physics, 1991, 63, 323-344.	1.2	369
45	THE CLASSICAL INCOMPRESSIBLE NAVIER-STOKES LIMIT OF THE BOLTZMANN EQUATION. Mathematical Models and Methods in Applied Sciences, 1991, 01, 235-257.	3.3	113
46	Different aspects of the milne problem (based on energy estimates). Transport Theory and Statistical Physics, 1987, 16, 561-585.	0.4	7
47	The milne and kramers problems for the boltzmann equation of a hard sphere gas. Communications on Pure and Applied Mathematics, 1986, 39, 323-352.	3.1	157
48	Control and Stabilization for the Wave Equation, Part III: Domain with Moving Boundary. SIAM Journal on Control and Optimization, 1981, 19, 123-138.	2.1	52
49	A nonlinear wave equation in a time dependent domain. Journal of Mathematical Analysis and Applications, 1973, 42, 29-60.	1.0	40
50	ProblÃ¨mes aux limites pour les Ã©quations aux dÃ©rivÃ©es partielles du premier ordre Ã coefficients rÃ©els; thÃ©orÃ¨mes d'approximation; application Ã l'Ã©quation de transport. Annales Scientifiques De L'Ecole Normale Superieure, 1970, 3, 185-233.	0.8	137
51	About a Variant of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:m Vlasov equation, dubbed â€œVlasov-Dirac-Benney Equation". SÃ©minaire Laurent Schwartz â€” EDP Et Applications, 0, , 1-21.	0.0	7