

Claude Bardos

List of Publications by Year in descending order

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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	Sharp Sufficient Conditions for the Observation, Control, and Stabilization of Waves from the Boundary. <i>SIAM Journal on Control and Optimization</i> , 1992, 30, 1024-1065.	2.1	1,030
2	Fluid dynamic limits of kinetic equations. I. Formal derivations. <i>Journal of Statistical Physics</i> , 1991, 63, 323-344.	1.2	369
3	Fluid dynamic limits of kinetic equations II convergence proofs for the boltzmann equation. <i>Communications on Pure and Applied Mathematics</i> , 1993, 46, 667-753.	3.1	276
4	The milne and kramers problems for the boltzmann equation of a hard sphere gas. <i>Communications on Pure and Applied Mathematics</i> , 1986, 39, 323-352.	3.1	157
5	Problèmes aux limites pour les Équations aux dérivées partielles du premier ordre à coefficients réels; théorèmes d'approximation; application à l'Équation de transport. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 1970, 3, 185-233.	0.8	137
6	THE CLASSICAL INCOMPRESSIBLE NAVIER-STOKES LIMIT OF THE BOLTZMANN EQUATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 1991, 01, 235-257.	3.3	113
7	Weak coupling limit of the N -particle Schrödinger equation. <i>Methods and Applications of Analysis</i> , 2000, 7, 275-294.	0.5	107
8	Mean field dynamics of fermions and the time-dependent Hartree-Fock equation. <i>Journal Des Mathématiques Pures Et Appliquées</i> , 2003, 82, 665-683.	1.6	84
9	Euler equations for incompressible ideal fluids. <i>Russian Mathematical Surveys</i> , 2007, 62, 409-451.	0.6	79
10	The Acoustic Limit for the Boltzmann Equation. <i>Archive for Rational Mechanics and Analysis</i> , 2000, 153, 177-204.	2.4	74
11	Derivation of the Schrödinger-Poisson equation from the quantum n -body problem. <i>Comptes Rendus Mathématique</i> , 2002, 334, 515-520.	0.3	74
12	Knudsen Layer for Gas Mixtures. <i>Journal of Statistical Physics</i> , 2003, 112, 629-655.	1.2	58
13	Onsager's Conjecture for the Incompressible Euler Equations in Bounded Domains. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 228, 197-207.	2.4	56
14	Control and Stabilization for the Wave Equation, Part III: Domain with Moving Boundary. <i>SIAM Journal on Control and Optimization</i> , 1981, 19, 123-138.	2.1	52
15	Half-Space Problems for the Boltzmann Equation: A Survey. <i>Journal of Statistical Physics</i> , 2006, 124, 275-300.	1.2	49
16	A nonlinear wave equation in a time dependent domain. <i>Journal of Mathematical Analysis and Applications</i> , 1973, 42, 29-60.	1.0	40
17	Onsager's Conjecture with Physical Boundaries and an Application to the Vanishing Viscosity Limit. <i>Communications in Mathematical Physics</i> , 2019, 370, 291-310.	2.2	35
18	Loss of smoothness and energy conserving rough weak solutions for the 3d Euler equations. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2010, 3, 185-197.	1.1	31

#	ARTICLE	IF	CITATIONS
19	Diffusion approximation for a Knudsen gas in a thin domain with accommodation on the boundary. <i>Asymptotic Analysis</i> , 1991, 3, 265-289.	0.5	30
20	Acoustic and Stokes limits for the Boltzmann equation. <i>Comptes Rendus Mathematique</i> , 1998, 327, 323-328.	0.5	30
21	A Vlasov equation with Dirac potential used in fusion plasmas. <i>Journal of Mathematical Physics</i> , 2012, 53, .	1.1	23
22	The Cauchy problem for the Vlasov-Dirac-Benney equation and related issues in fluid mechanics and semi-classical limits. <i>Kinetic and Related Models</i> , 2013, 6, 893-917.	0.9	23
23	Setting and Analysis of the Multi-configuration Time-dependent Hartree-Fock Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 198, 273-330.	2.4	21
24	A NOTE ON THE PROPAGATION OF BOUNDARY INDUCED DISCONTINUITIES IN KINETIC THEORY. <i>Mathematical Models and Methods in Applied Sciences</i> , 2001, 11, 1581-1595.	3.3	19
25	Stabilisation de l'Équation des ondes au moyen d'un feedback portant sur la condition aux limites de Dirichlet. <i>Asymptotic Analysis</i> , 1991, 4, 285-291.	0.5	18
26	On the Extension of Onsager's Conjecture for General Conservation Laws. <i>Journal of Nonlinear Science</i> , 2019, 29, 501-510.	2.1	17
27	Global regularity for a Birkhoff-Rott approximation of the dynamics of vortex sheets of the 2D Euler equations. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 1905-1911.	2.8	14
28	Diffusion approximation for billiards with totally accommodating scatterers. <i>Journal of Statistical Physics</i> , 1997, 86, 351-375.	1.2	13
29	Global regularity and convergence of a Birkhoff-Rott approximation of the dynamics of vortex sheets of the two-dimensional Euler equations. <i>Communications on Pure and Applied Mathematics</i> , 2010, 63, 697-746.	3.1	12
30	Observation estimate for kinetic transport equations by diffusion approximation. <i>Comptes Rendus Mathematique</i> , 2017, 355, 640-664.	0.3	12
31	Sound-field modeling in architectural acoustics by a transport theory: Application to street canyons. <i>Physical Review E</i> , 2005, 72, 046609.	2.1	11
32	Entire Solutions of Hydrodynamical Equations with Exponential Dissipation. <i>Communications in Mathematical Physics</i> , 2010, 293, 519-543.	2.2	11
33	The Classification of Well-Posed Kinetic Boundary Layer for Hard Sphere Gas Mixtures. <i>Communications in Partial Differential Equations</i> , 2012, 37, 1286-1314.	2.2	10
34	Diffusion approximation and hyperbolic automorphisms of the torus. <i>Physica D: Nonlinear Phenomena</i> , 1997, 104, 32-60.	2.8	9
35	Global-in-time existence of solutions to the multiconfiguration time-dependent Hartree-Fock equations: A sufficient condition. <i>Applied Mathematics Letters</i> , 2009, 22, 147-152.	2.7	9
36	Short-time heat diffusion in compact domains with discontinuous transmission boundary conditions. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 59-110.	3.3	9

#	ARTICLE	IF	CITATIONS
37	Different aspects of the milne problem (based on energy estimates). <i>Transport Theory and Statistical Physics</i> , 1987, 16, 561-585.	0.4	7
38	Optimal control approach in inverse radiative transfer problems: the problem on boundary function. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2000, 5, 259-278.	1.3	7
39	Hamiltonian Structure, Fluid Representation and Stability for the Vlasov-Dirac-Benney Equation. <i>Fields Institute Communications</i> , 2015, , 1-30.	1.3	7
40	The diffusion approximation for the linear Boltzmann equation with vanishing scattering coefficient. <i>Communications in Mathematical Sciences</i> , 2015, 13, 641-671.	1.0	7
41	About a Variant of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mrow}> \langle \text{mml:mn}>1 \langle \text{mml:mn}> \langle \text{mml:mi}>d \langle \text{mml:mi}> \langle \text{mml:mrow}> \langle \text{mml:mn}>1 \langle \text{mml:mn}> \langle \text{mml:mi}>Vlasov \text{ equation, dubbed "Vlasov-Dirac-Benney Equation". SÃ©minaire Laurent Schwartz "EDP Et Applications, 0., 1-21.$	0.0	7
42	Onsager-type conjecture and renormalized solutions for the relativistic Vlasov-Maxwell system. <i>Quarterly of Applied Mathematics</i> , 2019, 78, 193-217.	0.7	6
43	The radiative transfer model for the greenhouse effect. <i>SeMA Journal</i> , 2022, 79, 489-525.	2.0	4
44	On the Derivation of Nonlinear Schrödinger and Vlasov Equations. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2004, , 1-23.	0.5	4
45	Navier-Stokes Equations and Dynamical Systems. <i>Handbook of Dynamical Systems</i> , 2002, , 503-597.	0.6	3
46	On the classical limit of the Schrödinger equation. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 5689-5709.	0.9	3
47	Hamiltonian Evolution of Monokinetic Measures with Rough Momentum Profile. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 217, 71-111.	2.4	3
48	Kinetic Equations: A French History. <i>EMS Newsletter</i> , 2018, 2018-9, 10-18.	0.1	3
49	Simultaneous diffusion and homogenization asymptotic for the linear Boltzmann equation. <i>Asymptotic Analysis</i> , 2016, 100, 111-130.	0.5	2
50	What Use for the Mathematical Theory of the Navier-Stokes Equations. , 2001, , 1-25.		2
51	Diffusion limit of the Vlasov equation in the weak turbulent regime. <i>Journal of Mathematical Physics</i> , 2021, 62, 101505.	1.1	1