Tong Yang

List of Publications by Year
in descending order

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182 papers	5,948 citations	76196 40 h-index	91712 69 g-index
186 all docs	186 docs citations	186 times ranked	656 citing authors

#	Article	IF	Citations
1	L 1 Stability Estimates for n Ã— n Conservation Laws. Archive for Rational Mechanics and Analysis, 1999, 149, 1-22.	1.1	218
2	Vacuum states for compressible flow. Discrete and Continuous Dynamical Systems, 1998, 4, 1-32.	0.5	197
3	OPTIMAL CONVERGENCE RATES FOR THE COMPRESSIBLE NAVIERâ€“STOKES EQUATIONS WITH POTENTIAL FORCES. Mathematical Models and Methods in Applied Sciences, 2007, 17, 737-758.	1.7	181
4	Compressible Navierâ€“Stokes Equations with Degenerate Viscosity Coefficient and Vacuum. Communications in Mathematical Physics, 2002, 230, 329-363.	1.0	178
5	Energy method for Boltzmann equation. Physica D: Nonlinear Phenomena, 2004, 188, 178-192.	1.3	176
6	COMPRESSIBLE NAVIER-STOKES EQUATIONS WITH DENSITY-DEPENDENT VISCOSITY AND VACUUM. Communications in Partial Differential Equations, 2001, 26, 965-981.	1.0	169
7	The Pointwise Estimates of Solutions for Euler Equations with Damping in Multi-Dimensions. Journal of Differential Equations, 2001, 173, 410-450.	1.1	157
8	Optimal <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.1	142
9	Contact discontinuity with general perturbations for gas motions. Advances in Mathematics, 2008, 219, 1246-1297.	0.5	136
10	Lp-Convergence Rate to Nonlinear Diffusion Waves for p-System with Damping. Journal of Differential Equations, 2000, 161, 191-218.	1.1	116
11	A Vacuum Problem for the One-Dimensional Compressible Navierâ€“Stokes Equations with Density-Dependent Viscosity. Journal of Differential Equations, 2002, 184, 163-184.	1.1	116
12	Nonlinear Stability of Strong Rarefaction Waves for Compressible Navier--Stokes Equations. SIAM Journal on Mathematical Analysis, 2004, 35, 1561-1597.	0.9	107
13	Interface Behavior of Compressible Navier--Stokes Equations with Vacuum. SIAM Journal on Mathematical Analysis, 2000, 31, 1175-1191.	0.9	103
14	Compressible Navierâ€“Stokes equations with degenerate viscosity coefficient and vacuum (II). Journal of Differential Equations, 2003, 192, 475-501.	1.1	103
15	The Boltzmann equation without angular cutoff in the whole space: I, Global existence for soft potential. Journal of Functional Analysis, 2012, 262, 915-1010.	0.7	92
16	Well-posedness theory for hyperbolic conservation laws. Communications on Pure and Applied Mathematics, 1999, 52, 1553-1586.	1.2	89
17	Solutions of Euler-Poisson EquationsÂ¶for Gaseous Stars. Archive for Rational Mechanics and Analysis, 2002, 164, 261-285.	1.1	88
18	Regularizing Effect and Local Existence for the Non-Cutoff Boltzmann Equation. Archive for Rational Mechanics and Analysis, 2010, 198, 39-123.	1.1	86

#	Article	IF	Citations
19	Compressible Euler Equations with Vacuum. Journal of Differential Equations, 1997, 140, 223-237.	1.1	84
20	Global Existence and Full Regularity of the Boltzmann Equation Without Angular Cutoff. Communications in Mathematical Physics, 2011, 304, 513-581.	1.0	72
21	Nonlinear Boundary Layers of the Boltzmann Equation: I. Existence. Communications in Mathematical Physics, 2003, 236, 373-393.	1.0	70
22	Optimal Decay Estimates on the Linearized Boltzmann Equation with Time Dependent Force and their Applications. Communications in Mathematical Physics, 2007, 277, 189-236.	1.0	68
23	Compressible flow with vacuum and physical singularity. Methods and Applications of Analysis, 2000, 7, 495-510.	0.1	66
24	Compactness Framework ofLpApproximate Solutions for Scalar Conservation Laws. Journal of Mathematical Analysis and Applications, 1998, 220, 164-186.	0.5	64
25	Global Solutions to the One-Dimensional Compressible Navier--Stokes--Poisson Equations with Large Data. SIAM Journal on Mathematical Analysis, 2013, 45, 547-571.	0.9	63
26	Global Existence of Classical Solutions to the Vlasov-Poisson-Boltzmann System. Communications in Mathematical Physics, 2006, 268, 569-605.	1.0	62
27	Nonlinear Stability of Rarefaction Waves for the Boltzmann Equation. Archive for Rational Mechanics and Analysis, 2006, 181, 333-371.	1.1	60
28	MHD Boundary Layers Theory in Sobolev Spaces Without Monotonicity I: Wellâ€Posedness Theory. Communications on Pure and Applied Mathematics, 2019, 72, 63-121.	1.2	60
29	Regularity of solutions to the spatially homogeneous Boltzmann equation without angular cutoff. Discrete and Continuous Dynamical Systems, 2009, 24, 187-212.	0.5	59
30	Fluid dynamic limit to the Riemann Solutions of Euler equations: I. Superposition of rarefaction waves and contact discontinuity. Kinetic and Related Models, 2010, 3, 685-728.	0.5	59
31	THE BOLTZMANN EQUATION IN THE SPACE $L^2\cap L^\infty_\eta$: GLOBAL AND TIME-PERIODIC SOLUTIONS. Analysis and Applications, 2006, 04, 263-310.	1.2	58
32	CONVERGENCE RATE FOR THE COMPRESSIBLE NAVIERâ€“STOKES EQUATIONS WITH EXTERNAL FORCE. Journal of Hyperbolic Differential Equations, 2006, 03, 561-574.	0.3	57
33	The Boltzmann Equation Without Angular Cutoff in the Whole Space: Qualitative Properties of Solutions. Archive for Rational Mechanics and Analysis, 2011, 202, 599-661.	1.1	57
34	One-dimensional Compressible Navier--Stokes Equations with Temperature Dependent Transport Coefficients and Large Data. SIAM Journal on Mathematical Analysis, 2014, 46, 2185-2228.	0.9	56
35	Cauchy Problem for the Vlasovâ€“Poissonâ€“Boltzmann System. Archive for Rational Mechanics and Analysis, 2006, 182, 415-470.	1.1	53
36	Blowup phenomena of solutions to Eulerâ€“Poisson equations. Journal of Mathematical Analysis and Applications, 2003, 286, 295-306.	0.5	52

#	Article	IF	Citations
37	The Vlasovâ€“Poissonâ€“Boltzmann system in the whole space: The hard potential case. Journal of Differential Equations, 2012, 252, 6356-6386.	1.1	49
38	THE VLASOVâ€“POISSONâ€“BOLTZMANN SYSTEM FOR SOFT POTENTIALS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 979-1028.	1.7	48
39	Regularity of solutions for spatially homogeneous Boltzmann equation without angular cutoff. Kinetic and Related Models, 2008, 1, 453-489.	0.5	48
40	L_1 stability for $2 imes 2$ systems of hyperbolic conservation laws. Journal of the American Mathematical Society, 1999, 12, 729-774.	1.9	45
41	Hypocoercivity of the relativistic Boltzmann and Landau equations in the whole space. Journal of Differential Equations, 2010, 248, 1518-1560.	1.1	44
42	Stability of the nonrelativistic Vlasov-Maxwell-Boltzmann system for angular non-cutoff potentials. Kinetic and Related Models, 2013, 6, 159-204.	0.5	42
43	DIFFUSION IN A CONTINUUM MODEL OF SELF-PROPELLED PARTICLES WITH ALIGNMENT INTERACTION. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1459-1490.	1.7	41
44	Long-time Behavior of Solutions to the Bipolar Hydrodynamic Model of Semiconductors with Boundary Effect. SIAM Journal on Mathematical Analysis, 2012, 44, 1134-1164.	0.9	41
45	Uncertainty principle and kinetic equations. Journal of Functional Analysis, 2008, 255, 2013-2066.	0.7	40
46	Optimal Convergence Rates of Classical Solutions for Vlasov-Poisson-Boltzmann System. Communications in Mathematical Physics, 2011, 301, 319-355.	1.0	40
47	Vanishing Viscosity Limit of the Compressible Navierâ€“Stokes Equations for Solutions to a Riemann Problem. Archive for Rational Mechanics and Analysis, 2012, 203, 379-413.	1.1	40
48	Asymptotics of Initial Boundary Value Problems for Hydrodynamic and Drift Diffusion Models for Semiconductors. Journal of Differential Equations, 2001, 170, 472-493.	1.1	39
49	GLOBAL SOLUTIONS TO THE BOLTZMANN EQUATION WITH EXTERNAL FORCES. Analysis and Applications, 2005, 03, 157-193.	1.2	39
50	The Limit of the Boltzmann Equation to the Euler Equations for Riemann Problems. SIAM Journal on Mathematical Analysis, 2013, 45, 1741-1811.	0.9	39
51	Justification of Prandtl Ansatz for MHD Boundary Layer. SIAM Journal on Mathematical Analysis, 2019, 51, 2748-2791.	0.9	39
52	Time asymptotic behavior of the bipolar Navier-Stokes-Poisson system. Acta Mathematica Scientia, 2009, 29, 1721-1736.	0.5	37
53	Time periodic solutions of compressible Navierâ€“Stokes equations. Journal of Differential Equations, 2010, 248, 2275-2293.	1.1	37
54	On the convergence rate of vanishing viscosity approximations. Communications on Pure and Applied Mathematics, 2004, 57, 1075-1109.	1.2	36

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55	Singular behavior of vacuum states for compressible fluids. Journal of Computational and Applied Mathematics, 2006, 190, 211-231.	1.1	36
56	Hydrodynamic Limit of the Boltzmann Equation with Contact Discontinuities. Communications in Mathematical Physics, 2010, 295, 293-326.	1.0	36
57	On the Ill-Posedness of the Prandtl Equations in Three-Dimensional Space. Archive for Rational Mechanics and Analysis, 2016, 220, 83-108.	1.1	35
58	Stability of the One-Species Vlasovâ€“Poissonâ€“Boltzmann System. SIAM Journal on Mathematical Analysis, 2010, 41, 2353-2387.	0.9	34
59	A new entropy functional for a scalar conservation law. Communications on Pure and Applied Mathematics, 1999, 52, 1427-1442.	1.2	33
60	Local existence with physical vacuum boundary condition to Euler equations with damping. Journal of Differential Equations, 2005, 210, 217-231.	1.1	33
61	Asymptotic Behavior of Global Classical Solutions of Quasilinear Hyperbolic Systems. Communications in Partial Differential Equations, 2003, 28, 1203-1220.	1.0	32
62	Well-posedness in Gevrey function spaces for the Prandtl equations with non-degenerate critical points. Journal of the European Mathematical Society, 2019, 22, 717-775.	0.7	30
63	Nonlinear Stability of Boundary Layers of the Boltzmann Equation, I. The case M ? <?1. Communications in Mathematical Physics, 2004, 244, 99-109.	1.0	29
64	A Half-space Problem for the Boltzmann Equation with Specular Reflection Boundary Condition. Communications in Mathematical Physics, 2005, 255, 683-726.	1.0	29
65	Local existence with mild regularity for the Boltzmann equation. Kinetic and Related Models, 2013, 6, 1011-1041.	0.5	29
66	Stability of contact discontinuity for the Boltzmann equation. Journal of Differential Equations, 2006, 229, 698-742.	1.1	28
67	A Lattice Boltzmann Method for Image Denoising. IEEE Transactions on Image Processing, 2009, 18, 2797-2802.	6.0	28
68	Global Classical Solutions for the Vlasovâ€“Maxwellâ€“Fokkerâ€“Planck System. SIAM Journal on Mathematical Analysis, 2010, 42, 459-488.	0.9	28
69	Magnetic effects on the solvability of 2D MHD boundary layer equations without resistivity in Sobolev spaces. Journal of Functional Analysis, 2020, 279, 108637.	0.7	28
70	Existence and Non-Existence of Global Smooth Solutions for p-System with Relaxation. Journal of Differential Equations, 2000, 161, 321-336.	1.1	27
71	A new energy method for the Boltzmann equation. Journal of Mathematical Physics, 2006, 47, 053301.	0.5	27
72	Boltzmann equation with external force and Vlasov-Poisson-Boltzmann system in infinite vacuum. Discrete and Continuous Dynamical Systems, 2006, 16, 253-277.	0.5	27

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73	Weak Solutions of General Systems of Hyperbolic Conservation Laws. Communications in Mathematical Physics, 2002, 230, 289-327.	1.0	26
74	EXISTENCE OF BOUNDARY LAYER SOLUTIONS TO THE BOLTZMANN EQUATION. Analysis and Applications, 2004, 02, 337-363.	1.2	26
75	Global Well-Posedness of the Boltzmann Equation with Large Amplitude Initial Data. Archive for Rational Mechanics and Analysis, 2017, 225, 375-424.	1.1	26
76	Pointwise estimates and Lp convergence rates to diffusion waves for p-system with damping. Journal of Differential Equations, 2003, 187, 310-336.	1.1	25
77	Vanishing Shear Viscosity and Boundary Layer for the Navierâ€“Stokes Equations with Cylindrical Symmetry. Archive for Rational Mechanics and Analysis, 2015, 216, 1049-1086.	1.1	23
78	Smoothing effect of weak solutions for the spatially homogeneous Boltzmann equation without angular cutoff. Kyoto Journal of Mathematics, 2012, 52, .	0.2	22
79	A well-posedness theory for the Prandtl equations in three space variables. Advances in Mathematics, 2017, 308, 1074-1126.	0.5	22
80	A note on the ill-posedness of shear flow for the MHD boundary layer equations. Science China Mathematics, 2018, 61, 2065-2078.	0.8	22
81	Global BV Solutions of Compressible Euler Equations with Spherical Symmetry and Damping. Journal of Differential Equations, 1998, 146, 203-225.	1.1	20
82	Global existence to Boltzmann equation with external force in infinite vacuum. Journal of Mathematical Physics, 2005, 46, 053307.	0.5	20
83	Ill-posedness of the Prandtl equations in Sobolev spaces around a shear flow with general decay. Journal Des Mathematiques Pures Et Appliquees, 2017, 108, 150-162.	0.8	20
84	Decay Rate for Travelling Waves of a Relaxation Model. Journal of Differential Equations, 1997, 134, 343-367.	1.1	19
85	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi>L</mml:mi><mml:mi>p</mml:mi></mml:msup></mml:math> convergence rates of planar waves for multi-dimensional Euler equations with damping. Journal of Differential Equations, 2009, 247, 303-329.	1.1	19
86	Global BV Solutions to a p-System with Relaxation. Journal of Differential Equations, 2000, 162, 174-198.	1.1	18
87	A Sharp Decay Estimate for Positive Nonlinear Waves. SIAM Journal on Mathematical Analysis, 2004, 36, 659-677.	0.9	18
88	Existence and stability of planar diffusion waves for 2-D Euler equations with damping. Journal of Differential Equations, 2007, 242, 40-71.	1.1	18
89	Spectrum Analysis of Some Kinetic Equations. Archive for Rational Mechanics and Analysis, 2016, 222, 731-768.	1.1	18
90	Lifespan of Solutions to MHD Boundary Layer Equations with Analytic Perturbation of General Shear Flow. Acta Mathematicae Applicatae Sinica, 2019, 35, 209-229.	0.4	18

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91	Convergence rates to travelling waves for a nonconvex relaxation model. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1998, 128, 1053-1068.	0.8	17
92	PROPAGATION OF SINGULARITIES IN THE SOLUTIONS TO THE BOLTZMANN EQUATION NEAR EQUILIBRIUM. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1093-1114.	1.7	17
93	Time periodic solution for a 3-D compressible Navierâ€“Stokes system with an external force in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup></mml:math>. Journal of Differential Equations, 2015, 259, 2578-2601.	1.1	17
94	Global-in-Time Stability of 2D MHD Boundary Layer in the Prandtl–Hartmann Regime. SIAM Journal on Mathematical Analysis, 2018, 50, 5749-5760.	0.9	17
95	A functional integral approach to shock wave solutions of Euler equations with spherical symmetry. Communications in Mathematical Physics, 1995, 171, 607-638.	1.0	16
96	Global smooth solutions for a class of quasilinear hyperbolic systems with dissipative terms. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1997, 127, 1311-1324.	0.8	16
97	Nonlinear stability of boundary layers of the Boltzmann equation for cutoff hard potentials. Journal of Mathematical Physics, 2006, 47, 083301.	0.5	16
98	Convergence Rate to Stationary Solutions for Boltzmann Equation with External Force*. Chinese Annals of Mathematics Series B, 2006, 27, 363-378.	0.2	16
99	A combination of energy method and spectral analysis for study of equations of gas motion. Frontiers of Mathematics in China, 2009, 4, 253-282.	0.4	16
100	Local Well-Posedness of Prandtl Equations for Compressible Flow in Two Space Variables. SIAM Journal on Mathematical Analysis, 2015, 47, 321-346.	0.9	16
101	Interaction of Elementary Waves for Compressible Euler Equations with Frictional Damping. Journal of Differential Equations, 2000, 161, 42-86.	1.1	15
102	Asymptotic Behavior of Solutions to a Hyperbolic System with Relaxation and Boundary Effect. Journal of Differential Equations, 2000, 163, 348-380.	1.1	15
103	Global solutions to the relativistic Landauâ€“Maxwell system in the whole space. Journal Des Mathematiques Pures Et Appliquees, 2012, 97, 602-634.	0.8	15
104	The Vlasovâ€“Maxwellâ€“Boltzmann System Near Maxwellians in the Whole Space with Very Soft Potentials. Communications in Mathematical Physics, 2017, 351, 95-153.	1.0	15
105	Stability of Nonlinear Wave Patterns to the Bipolar Vlasovâ€“Poissonâ€“Boltzmann System. Archive for Rational Mechanics and Analysis, 2018, 228, 39-127.	1.1	15
106	Wellâ€Posedness in Gevrey Function Space for 3D Prandtl Equations without Structural Assumption. Communications on Pure and Applied Mathematics, 2022, 75, 1755-1797.	1.2	14
107	Global existence of weak solutions to the three-dimensional Prandtl equations with a special structure. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 2011-2029.	0.6	14
108	Bounded solutions of the Boltzmann equation in the whole space. Kinetic and Related Models, 2011, 4, 17-40.	0.5	14

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109	SOME RECENT RESULTS ON COMPRESSIBLE FLOW WITH VACUUM. Taiwanese Journal of Mathematics, 2000, 4, 33.	0.2	13
110	The Boltzmann Equation with Soft Potentials Near a Local Maxwellian. Archive for Rational Mechanics and Analysis, 2012, 206, 239-296.	1.1	13
111	Existence of Globally Bounded Continuous Solutions for Nonisentropic Gas Dynamics Equations. Journal of Mathematical Analysis and Applications, 1997, 209, 492-506.	0.5	12
112	Existence of stationary solutions to the Vlasovâ€“Poissonâ€“Boltzmann system. Journal of Mathematical Analysis and Applications, 2007, 327, 425-434.	0.5	12
113	Multiplicity of stationary solutions to the Eulerâ€“Poisson equations. Journal of Differential Equations, 2006, 231, 252-289.	1.1	11
114	Existence of boundary layers to the Boltzmann equation with cutoff soft potentials. Journal of Mathematical Physics, 2007, 48, .	0.5	11
115	A new characterization and global regularity of infinite energy solutions to the homogeneous Boltzmann equation. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 809-829.	0.8	11
116	Smoothing effect of the homogeneous Boltzmann equation with measure valued initial datum. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 429-442.	0.7	11
117	Measure Valued Solutions to the Spatially Homogeneous Boltzmann Equation Without Angular Cutoff. Journal of Statistical Physics, 2016, 165, 866-906.	0.5	11
118	Local-in-time well-posedness for compressible MHD boundary layer. Journal of Differential Equations, 2019, 266, 2978-3013.	1.1	11
119	L1 Stability for Systems of Hyperbolic Conservation Laws with a Resonant Moving Source. SIAM Journal on Mathematical Analysis, 2003, 34, 1226-1251.	0.9	10
120	Spectrum Structure and Behaviors of the Vlasov--Maxwell--Boltzmann Systems. SIAM Journal on Mathematical Analysis, 2016, 48, 595-669.	0.9	10
121	BV Estimates on Laxâ€“Friedrichs' Scheme or a Model of Radiating Gas. Applicable Analysis, 2004, 83, 533-539.	0.6	9
122	Optimal convergence rates of Landau equation with external forcing in the whole space. Acta Mathematica Scientia, 2009, 29, 1035-1062.	0.5	9
123	On the Convergence Rate of Vanishing Viscosity Approximations for Nonlinear Hyperbolic Systems. SIAM Journal on Mathematical Analysis, 2012, 44, 3537-3563.	0.9	9
124	Compressible Navierâ€“Stokes approximation to the Boltzmann equation. Journal of Differential Equations, 2014, 256, 3770-3816.	1.1	9
125	Vanishing viscosity of isentropic Navier-Stokes equations for interacting shocks. Science China Mathematics, 2015, 58, 653-672.	0.8	9
126	Time periodic solution to the compressible navier-stokes equations in a periodic domain. Acta Mathematica Scientia, 2016, 36, 1015-1029.	0.5	9

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127	Well-posedness of the MHD Boundary Layer System in Gevrey Function Space without Structural Assumption. SIAM Journal on Mathematical Analysis, 2021, 53, 3236-3264.	0.9	9
128	A Functional Integral Approach to Shock Wave Solutions of the Euler Equations with Spherical Symmetry (II). Journal of Differential Equations, 1996, 130, 162-178.	1.1	8
129	Navierâ€“Stokes equations with degenerate viscosity, vacuum and gravitational force. Mathematical Methods in the Applied Sciences, 2007, 30, 347-374.	1.2	8
130	Local existence of polynomial decay solutions to the Boltzmann equation for soft potentials. Analysis and Applications, 2015, 13, 663-683.	1.2	8
131	Vanishing shear viscosity limit and boundary layer study for the planar MHD system. Mathematical Models and Methods in Applied Sciences, 2019, 29, 1139-1174.	1.7	8
132	Nonlinear stability and existence of stationary discrete travelling waves for the relaxing schemes. Japan Journal of Industrial and Applied Mathematics, 1999, 16, 195-224.	0.5	7
133	A study on the boundary layer for the planar magnetohydrodynamics system. Acta Mathematica Scientia, 2015, 35, 787-806.	0.5	7
134	Justification of limit for the Boltzmann equation related to Korteweg theory. Quarterly of Applied Mathematics, 2016, 74, 719-764.	0.5	7
135	Greenâ€™s Function and Pointwise Space-time Behaviors of the Vlasov-Poisson-Boltzmann System. Archive for Rational Mechanics and Analysis, 2020, 235, 1011-1057.	1.1	7
136	CONVERGENCE RATE OF GLIMM SCHEME FOR GENERAL SYSTEMS OF HYPERBOLIC CONSERVATION LAWS. Taiwanese Journal of Mathematics, 2003, 7, 195.	0.2	6
137	Regularity of solutions for the Boltzmann equation without angular cutoff. Comptes Rendus Mathematique, 2009, 347, 747-752.	0.1	6
138	A New Glimm Functional and Convergence Rate of Glimm Scheme for General Systems of Hyperbolic Conservation Laws. Archive for Rational Mechanics and Analysis, 2010, 196, 433-454.	1.1	6
139	A New Stability and Convergence Proof of the Fourier--Galerkin Spectral Method for the Spatially Homogeneous Boltzmann Equation. SIAM Journal on Numerical Analysis, 2021, 59, 613-633.	1.1	6
140	Uniqueness of solutions for the non-cutoff Boltzmann equation with soft potential. Kinetic and Related Models, 2011, 4, 919-934.	0.5	6
141	The rate of asymptotic convergence of strong detonations for a model problem. Japan Journal of Industrial and Applied Mathematics, 1999, 16, 467-487.	0.5	5
142	BV estimates of Lax-Friedrichsâ€™ scheme for a class of nonlinear hyperbolic conservation laws. Proceedings of the American Mathematical Society, 2002, 131, 1257-1266.	0.4	5
143	A note on â€œwell-posedness theory for hyperbolic conservation lawsâ€. Applied Mathematics Letters, 2003, 16, 143-146.	1.5	5
144	Uncertainty principle and regularity for Boltzmann type equations. Comptes Rendus Mathematique, 2007, 345, 673-677.	0.1	5

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145	Compressible non-isentropic bipolar navierâ€“stokesâ€“poisson system in â„•3. Acta Mathematica Scientia, 2011, 31, 2169-2194.	0.5	5
146	Probability Measures with Finite Moments and the Homogeneous Boltzmann Equation. SIAM Journal on Mathematical Analysis, 2016, 48, 2399-2413.	0.9	5
147	Optimal convergence rate of the vanishing shear viscosity limit for compressible Navier-Stokes equations with cylindrical symmetry. Journal Des Mathematiques Pures Et Appliquees, 2021, 146, 99-126.	0.8	5
148	Uniform regularity and vanishing viscosity limit for the incompressible non-resistive MHD system with TMF. Communications on Pure and Applied Analysis, 2021, 20, 2725.	0.4	5
149	Diffusion limit of the Vlasov-Poisson-Boltzmann system. Kinetic and Related Models, 2021, 14, 211.	0.5	5
150	Existence of strong travelling wave profiles to $2imes 2$ systems of viscous conservation laws. Proceedings of the American Mathematical Society, 2007, 135, 1843-1849.	0.4	5
151	Stationary solutions to the exterior problems for the Boltzmann equation, I. Existence. Discrete and Continuous Dynamical Systems, 2008, 23, 495-520.	0.5	5
152	Global weak solutions for elastic equations with damping and different end states. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1998, 128, 797-807.	0.8	4
153	Existence of global smooth solutions for Euler equations with symmetry (II). Nonlinear Analysis: Theory, Methods & Applications, 2000, 41, 187-203.	0.6	4
154	Global structure and asymptotic behavior of weak solutions to flood wave equations. Journal of Differential Equations, 2004, 207, 117-160.	1.1	4
155	An improved convergence rate of Glimm scheme for general systems of hyperbolic conservation laws. Journal of Differential Equations, 2006, 231, 92-107.	1.1	4
156	Convergence to self-similar solutions for the homogeneous Boltzmann equation. Journal of the European Mathematical Society, 2017, 19, 2241-2267.	0.7	4
157	Exterior Problem of Boltzmann Equation with Temperature Difference. Communications on Pure and Applied Analysis, 2009, 8, 473-491.	0.4	4
158	Convergence of the Viscosity Method for the Systems of Isentropic Gas Dynamics in Lagrangian Coordinates. Journal of Differential Equations, 1993, 102, 330-341.	1.1	3
159	Non-existence of global smooth solutions to symmetrizable nonlinear hyperbolic systems. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2003, 133, 719-728.	0.8	3
160	A NOTE ON THE NEW GLIMM FUNCTIONAL FOR GENERAL SYSTEMS OF HYPERBOLIC CONSERVATION LAWS. Mathematical Models and Methods in Applied Sciences, 2010, 20, 815-842.	1.7	3
161	Waiting time for a non-Newtonian polytropic filtration equation with convection. Journal of Differential Equations, 2012, 252, 4862-4885.	1.1	3
162	Moment classification of infinite energy solutions to the homogeneous Boltzmann equation. Analysis and Applications, 2017, 15, 391-411.	1.2	3

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163	Existence of global weak solutions for a viscoelastic model with relaxation. Applicable Analysis, 1997, 67, 313-326.	0.6	2
164	Euler equations with spherical symmetry and an outing absorbing boundary. Communications in Partial Differential Equations, 1999, 24, 1-23.	1.0	2
165	Spectrum Analysis for the Vlasovâ€“Poissonâ€“Boltzmann System. Archive for Rational Mechanics and Analysis, 2021, 241, 311-355.	1.1	2
166	Study of boundary layers in compressible non-isentropic flows. Methods and Applications of Analysis, 2021, 28, 453-466.	0.1	2
167	Convergence of The Laxâ€“Friedrichs' Scheme For Equaitons of Isentropic Gas Dynamics in Lagrangian Coordinatesâˆ—. Communications in Partial Differential Equations, 1991, 16, 1441-1460.	1.0	1
168	Nonlinear Stability of Strong Detonation Waves for a Dissipative Model. Journal of Differential Equations, 1999, 151, 134-160.	1.1	1
169	Self-similar solutions and asymptotic behaviour for a class of degenerate and singular diffusion equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2007, 137, 581-602.	0.8	1
170	A nonlinear functional for general scalar hyperbolic conservation laws. Journal of Differential Equations, 2007, 235, 658-667.	1.1	1
171	Existence of local solutions for the Boltzmann equation without angular cutoff. Comptes Rendus Mathematique, 2009, 347, 1237-1242.	0.1	1
172	Kinetic Theory and Conservation Laws: An Introduction. Series in Contemporary Applied Mathematics, 2009, , 126-229.	0.8	1
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