

Feimin Huang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Asymptotic stability of planar rarefaction waves under periodic perturbations for 3-d Navier-Stokes equations. <i>Advances in Mathematics</i> , 2022, 404, 108452.	1.1	2
2	Boundary Layer Solution of the Boltzmann Equation for Diffusive Reflection Boundary Conditions in Half-Space. <i>SIAM Journal on Mathematical Analysis</i> , 2022, 54, 3480-3534.	1.9	1
3	Hilbert Expansion of the Boltzmann Equation with Specular Boundary Condition in Half-Space. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 241, 231-309.	2.4	11
4	Stability of Large-Amplitude Viscous Shock Under Periodic Perturbation for 1-d Isentropic Navier-Stokes Equations. <i>Communications in Mathematical Physics</i> , 2021, 387, 1655-1679.	2.2	6
5	Stability of Transonic Contact Discontinuity for Two-Dimensional Steady Compressible Euler Flows in a Finitely Long Nozzle. <i>Annals of PDE</i> , 2021, 7, 1.	1.8	2
6	L^1 -Convergence to Generalized Barenblatt Solution for Compressible Euler Equations with Time-Dependent Damping. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 6048-6072.	1.9	3
7	Nonlinear stability of large amplitude viscous shock wave for general viscous gas. <i>Journal of Differential Equations</i> , 2020, 269, 1226-1242.	2.2	8
8	Existence of smooth solutions for the compressible barotropic Navier-Stokes-Korteweg system without increasing pressure law. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 5073-5096.	2.3	8
9	Global Entropy Solutions to the Gas Flow in General Nozzle. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 3276-3297.	1.9	6
10	Effects of Soft Interaction and Non-isothermal Boundary Upon Long-Time Dynamics of Rarefied Gas. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 234, 925-1006.	2.4	13
11	Global entropy solutions to multi-dimensional isentropic gas dynamics with spherical symmetry. <i>Nonlinearity</i> , 2019, 32, 4505-4523.	1.4	5
12	L^1 -convergence rates to the Barenblatt solution for the damped compressible Euler equations. <i>Journal of Differential Equations</i> , 2019, 266, 7890-7908.	2.2	11
13	Stability of supersonic contact discontinuity for two-dimensional steady compressible Euler flows in a finite nozzle. <i>Journal of Differential Equations</i> , 2019, 266, 4337-4376.	2.2	12
14	Macroscopic regularity for the Boltzmann equation. <i>Acta Mathematica Scientia</i> , 2018, 38, 1549-1566.	1.0	3
15	Large time behavior of entropy solutions to one-dimensional unipolar hydrodynamic model for semiconductor devices. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2018, 69, 1.	1.4	14
16	The non-steady Navier-Stokes systems with mixed boundary conditions including friction conditions. <i>Methods and Applications of Analysis</i> , 2018, 25, 13-50.	0.5	6
17	Global Well-Posedness of the Boltzmann Equation with Large Amplitude Initial Data. <i>Archive for Rational Mechanics and Analysis</i> , 2017, 225, 375-424.	2.4	26
18	Traveling wave to a reaction-hyperbolic system for axonal transport. <i>Journal of Differential Equations</i> , 2017, 263, 264-284.	2.2	0

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19	On the Strong Solution of the Ghost Effect System. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 3496-3526.	1.9	5
20	Diffusive wave in the low Mach limit for compressible Navier–Stokes equations. <i>Advances in Mathematics</i> , 2017, 319, 348-395.	1.1	8
21	Stability of superposition of viscous contact wave and rarefaction waves for compressible Navier-Stokes system. <i>Indiana University Mathematics Journal</i> , 2016, 65, 1833-1875.	0.9	38
22	Justification of limit for the Boltzmann equation related to Korteweg theory. <i>Quarterly of Applied Mathematics</i> , 2016, 74, 719-764.	0.7	7
23	Isometric Immersion of Surface with Negative Gauss Curvature and the Lax–Friedrichs Scheme. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 2227-2249.	1.9	1
24	Global entropy solutions to an inhomogeneous isentropic compressible euler system. <i>Acta Mathematica Scientia</i> , 2016, 36, 1215-1224.	1.0	8
25	Incompressible limit of solutions of multidimensional steady compressible Euler equations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016, 67, 1.	1.4	12
26	Isometric Immersions of Surfaces with Two Classes of Metrics and Negative Gauss Curvature. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 218, 1431-1457.	2.4	11
27	Vanishing viscosity of isentropic Navier-Stokes equations for interacting shocks. <i>Science China Mathematics</i> , 2015, 58, 653-672.	1.7	9
28	On the convergence rate of a class of reaction hyperbolic systems for axonal transport. <i>Acta Mathematica Scientia</i> , 2015, 35, 945-954.	1.0	2
29	Thermal creep flow for the Boltzmann equation. <i>Chinese Annals of Mathematics Series B</i> , 2015, 36, 855-870.	0.4	4
30	A global unique solvability of entropic weak solution to the one-dimensional pressureless Euler system with a flocking dissipation. <i>Journal of Differential Equations</i> , 2014, 257, 1333-1371.	2.2	31
31	The Limit of the Boltzmann Equation to the Euler Equations for Riemann Problems. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 1741-1811.	1.9	39
32	Zero dissipation limit of full compressible Navier-Stokes equations with a Riemann initial data. <i>Communications in Information and Systems</i> , 2013, 13, 211-246.	0.5	11
33	Zero Dissipation Limit to Rarefaction Wave with Vacuum for One-Dimensional Compressible Navier–Stokes Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 1742-1759.	1.9	32
34	Long-time Behavior of Solutions to the Bipolar Hydrodynamic Model of Semiconductors with Boundary Effect. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 1134-1164.	1.9	41
35	On the Convergence Rate of Vanishing Viscosity Approximations for Nonlinear Hyperbolic Systems. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 3537-3563.	1.9	9
36	Zero dissipation limit to rarefaction waves for the 1-D compressible Navier-Stokes equations. <i>Chinese Annals of Mathematics Series B</i> , 2012, 33, 385-394.	0.4	8

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37	Asymptotic behavior of solutions toward the superposition of contact discontinuity and shock wave for compressible Navier-Stokes equations with free boundary. <i>Acta Mathematica Scientia</i> , 2012, 32, 389-412.	1.0	11
38	Stability of planar diffusion wave for nonlinear evolution equation. <i>Science China Mathematics</i> , 2012, 55, 337-352.	1.7	5
39	Vanishing Viscosity Limit of the Compressible Navier-Stokes Equations for Solutions to a Riemann Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 203, 379-413.	2.4	40
40	Large Time Behavior of Solutions for Compressible Navier-Stokes Equations. <i>Series in Contemporary Applied Mathematics</i> , 2012, , 28-43.	0.8	0
41	Large Time Behavior of Solutions to n -Dimensional Bipolar Hydrodynamic Models for Semiconductors. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 1595-1630.	1.9	54
42	Asymptotic Convergence to Stationary Waves for Unipolar Hydrodynamic Model of Semiconductors. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 411-429.	1.9	51
43	L^1 Convergence to the Barenblatt Solution for Compressible Euler Equations with Damping. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 200, 665-689.	2.4	59
44	Asymptotic convergence to planar stationary waves for multi-dimensional unipolar hydrodynamic model of semiconductors. <i>Journal of Differential Equations</i> , 2011, 251, 1305-1331.	2.2	34
45	Asymptotic Stability of Combination of Viscous Contact Wave with Rarefaction Waves for One-Dimensional Compressible Navier-Stokes System. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 197, 89-116.	2.4	132
46	Hydrodynamic Limit of the Boltzmann Equation with Contact Discontinuities. <i>Communications in Mathematical Physics</i> , 2010, 295, 293-326.	2.2	36
47	Well-Posedness and Stability of Quantum Hydrodynamics for Semiconductors in \mathbb{R}^3 . <i>Series in Contemporary Applied Mathematics</i> , 2010, , 131-160.	0.8	8
48	Stability of viscous shock wave for compressible Navier-Stokes equations with free boundary. <i>Kinetic and Related Models</i> , 2010, 3, 409-425.	0.9	10
49	Fluid dynamic limit to the Riemann Solutions of Euler equations: I. Superposition of rarefaction waves and contact discontinuity. <i>Kinetic and Related Models</i> , 2010, 3, 685-728.	0.9	59
50	Stability of a Composite Wave of Two Viscous Shock Waves for the Full Compressible Navier-Stokes Equation. <i>Communications in Mathematical Physics</i> , 2009, 289, 841-861.	2.2	72
51	Stability of boundary layer and rarefaction wave to an outflow problem for compressible Navier-Stokes equations under large perturbation. <i>Journal of Differential Equations</i> , 2009, 246, 4077-4096.	2.2	59
52	Weak solutions to isothermal hydrodynamic model for semiconductor devices. <i>Journal of Differential Equations</i> , 2009, 247, 3070-3099.	2.2	21
53	Large time behavior and quasineutral limit of solutions to a bipolar hydrodynamic model with large data and vacuum. <i>Discrete and Continuous Dynamical Systems</i> , 2009, 24, 455-470.	0.9	49
54	Large time behavior of Euler-Poisson system for semiconductor. <i>Science in China Series A: Mathematics</i> , 2008, 51, 965-972.	0.5	23

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55	Stability of contact discontinuity for Jin's Xin relaxation system. <i>Journal of Differential Equations</i> , 2008, 244, 1114-1140.	2.2	10
56	Contact discontinuity with general perturbations for gas motions. <i>Advances in Mathematics</i> , 2008, 219, 1246-1297.	1.1	136
57	Large time behavior of the solutions to the Boltzmann equation with specular reflective boundary condition. <i>Journal of Differential Equations</i> , 2007, 240, 399-429.	2.2	5
58	Stability of contact discontinuity for the Boltzmann equation. <i>Journal of Differential Equations</i> , 2006, 229, 698-742.	2.2	28
59	Asymptotic behavior of the solutions to the damped compressible Euler equations with vacuum. <i>Journal of Differential Equations</i> , 2006, 220, 207-233.	2.2	60
60	Stability of Contact Discontinuities for the 1-D Compressible Navier-Stokes Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2006, 179, 55-77.	2.4	116
61	Convergence to the Barenblatt Solution for the Compressible Euler Equations with Damping and Vacuum. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 176, 1-24.	2.4	113
62	Weak Solution to Pressureless Type System. <i>Communications in Partial Differential Equations</i> , 2005, 30, 283-304.	2.2	47
63	Viscous Shock Wave to a Gas-Solid Free Boundary Problem for Compressible Gas. <i>SIAM Journal on Mathematical Analysis</i> , 2004, 36, 498-522.	1.9	2
64	On a nonhomogeneous system of pressureless flow. <i>Quarterly of Applied Mathematics</i> , 2004, 62, 509-528.	0.7	16
65	Convergence Rate for Compressible Euler Equations with Damping and Vacuum. <i>Archive for Rational Mechanics and Analysis</i> , 2003, 166, 359-376.	2.4	106
66	Viscous Shock Wave and Boundary Layer Solution to an Inflow Problem for Compressible Viscous Gas. <i>Communications in Mathematical Physics</i> , 2003, 239, 261-285.	2.2	53
67	A Gas-Solid Free Boundary Problem for a Compressible Viscous Gas. <i>SIAM Journal on Mathematical Analysis</i> , 2003, 34, 1331-1355.	1.9	19
68	Convergence of Viscosity Solutions for Isothermal Gas Dynamics. <i>SIAM Journal on Mathematical Analysis</i> , 2002, 34, 595-610.	1.9	69
69	Uniqueness on zero pressure gas dynamics. <i>Acta Mathematica Scientia</i> , 2001, 21, 145-151.	1.0	1
70	Well Posedness for Pressureless Flow. <i>Communications in Mathematical Physics</i> , 2001, 222, 117-146.	2.2	165
71	Two-dimensional Riemann problems of simplified Euler equation. <i>Science Bulletin</i> , 1998, 43, 441-444.	1.7	8
72	Existence and uniqueness of discontinuous solutions for a hyperbolic system. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1997, 127, 1193-1205.	1.2	17

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73	On the Cauchy problem of transportation equations. <i>Acta Mathematicae Applicatae Sinica</i> , 1997, 13, 113-122.	0.7	37
74	Solutions containing delta-waves of Cauchy problems for a nonstrictly hyperbolic system. <i>Acta Mathematicae Applicatae Sinica</i> , 1995, 11, 429-446.	0.7	11