Feimin Huang

List of Publications by Year
in descending order

74 papers	2,155 citations	201674 27 h-index	233421 45 g-index
74 all docs	74 docs citations	74 times ranked	316 citing authors

#	Article	IF	Citations
1	Well Posedness for Pressureless Flow. Communications in Mathematical Physics, 2001, 222, 117-146.	2.2	165
2	Contact discontinuity with general perturbations for gas motions. Advances in Mathematics, 2008, 219, 1246-1297.	1.1	136
3	Asymptotic Stability of Combination of Viscous Contact Wave with Rarefaction Waves for One-Dimensional Compressible Navierâ€"Stokes System. Archive for Rational Mechanics and Analysis, 2010, 197, 89-116.	2.4	132
4	Stability of Contact Discontinuities for the 1-D Compressible Navier-Stokes Equations. Archive for Rational Mechanics and Analysis, 2006, 179, 55-77.	2.4	116
5	Convergence to the Barenblatt Solution for the Compressible Euler Equations with Damping and Vacuum. Archive for Rational Mechanics and Analysis, 2005, 176, 1-24.	2.4	113
6	Convergence Rate for Compressible Euler Equations with Damping and Vacuum. Archive for Rational Mechanics and Analysis, 2003, 166, 359-376.	2.4	106
7	Stability of a Composite Wave of Two Viscous Shock Waves for the Full Compressible Navier-Stokes Equation. Communications in Mathematical Physics, 2009, 289, 841-861.	2.2	72
8	Convergence of Viscosity Solutions for Isothermal Gas Dynamics. SIAM Journal on Mathematical Analysis, 2002, 34, 595-610.	1.9	69
9	Asymptotic behavior of the solutions to the damped compressible Euler equations with vacuum. Journal of Differential Equations, 2006, 220, 207-233.	2.2	60
10	Stability of boundary layer and rarefaction wave to an outflow problem for compressible Navierâ€"Stokes equations under large perturbation. Journal of Differential Equations, 2009, 246, 4077-4096.	2.2	59
11	L 1 Convergence to the Barenblatt Solution for Compressible Euler Equations with Damping. Archive for Rational Mechanics and Analysis, 2011, 200, 665-689.	2.4	59
12	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.	0.9	59
13	Large Time Behavior of Solutions to *n*-Dimensional Bipolar Hydrodynamic Models for Semiconductors. SIAM Journal on Mathematical Analysis, 2011, 43, 1595-1630.	1.9	54
14	Viscous Shock Wave and Boundary Layer Solution to an Inflow Problem for Compressible Viscous Gas. Communications in Mathematical Physics, 2003, 239, 261-285.	2.2	53
15	Asymptotic Convergence to Stationary Waves for Unipolar Hydrodynamic Model of Semiconductors. SIAM Journal on Mathematical Analysis, 2011, 43, 411-429.	1.9	51
16	Large time behavior and quasineutral limit of solutions to a bipolar hydrodynamic model with large data and vacuum. Discrete and Continuous Dynamical Systems, 2009, 24, 455-470.	0.9	49
17	Weak Solution to Pressureless Type System. Communications in Partial Differential Equations, 2005, 30, 283-304.	2.2	47
18	Long-time Behavior of Solutions to the Bipolar Hydrodynamic Model of Semiconductors with Boundary Effect. SIAM Journal on Mathematical Analysis, 2012, 44, 1134-1164.	1.9	41

#	ARTICLE	IF	CITATIONS
19	Vanishing Viscosity Limit of the Compressible Navier–Stokes Equations for Solutions to a Riemann Problem. Archive for Rational Mechanics and Analysis, 2012, 203, 379-413.	2.4	40
20	The Limit of the Boltzmann Equation to the Euler Equations for Riemann Problems. SIAM Journal on Mathematical Analysis, 2013, 45, 1741-1811.	1.9	39
21	Stability of superposition of viscous contact wave and rarefaction waves for compressible Navier-Stokes system. Indiana University Mathematics Journal, 2016, 65, 1833-1875.	0.9	38
22	On the Cauchy problem of transportation equations. Acta Mathematicae Applicatae Sinica, 1997, 13, 113-122.	0.7	37
23	Hydrodynamic Limit of the Boltzmann Equation with Contact Discontinuities. Communications in Mathematical Physics, 2010, 295, 293-326.	2.2	36
24	Asymptotic convergence to planar stationary waves for multi-dimensional unipolar hydrodynamic model of semiconductors. Journal of Differential Equations, 2011, 251, 1305-1331.	2.2	34
25	Zero Dissipation Limit to Rarefaction Wave with Vacuum for One-Dimensional Compressible Navier–Stokes Equations. SIAM Journal on Mathematical Analysis, 2012, 44, 1742-1759.	1.9	32
26	A global unique solvability of entropic weak solution to the one-dimensional pressureless Euler system with a flocking dissipation. Journal of Differential Equations, 2014, 257, 1333-1371.	2.2	31
27	Stability of contact discontinuity for the Boltzmann equation. Journal of Differential Equations, 2006, 229, 698-742.	2.2	28
28	Global Well-Posedness of the Boltzmann Equation with Large Amplitude Initial Data. Archive for Rational Mechanics and Analysis, 2017, 225, 375-424.	2.4	26
29	Large time behavior of Euler-Poisson system for semiconductor. Science in China Series A: Mathematics, 2008, 51, 965-972.	0.5	23
30	Weak solutions to isothermal hydrodynamic model for semiconductor devices. Journal of Differential Equations, 2009, 247, 3070-3099.	2.2	21
31	A Gas-Solid Free Boundary Problem for a Compressible Viscous Gas. SIAM Journal on Mathematical Analysis, 2003, 34, 1331-1355.	1.9	19
32	Existence and uniqueness of discontinuous solutions for a hyperbolic system. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1997, 127, 1193-1205.	1.2	17
33	On a nonhomogeneous system of pressureless flow. Quarterly of Applied Mathematics, 2004, 62, 509-528.	0.7	16
34	Large time behavior of entropy solutions to one-dimensional unipolar hydrodynamic model for semiconductor devices. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	14
35	Effects of Soft Interaction and Non-isothermal Boundary Upon Long-Time Dynamics of Rarefied Gas. Archive for Rational Mechanics and Analysis, 2019, 234, 925-1006.	2.4	13
36	Incompressible limit of solutions of multidimensional steady compressible Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	12

#	ARTICLE	IF	CITATIONS
37	Stability of supersonic contact discontinuity for two-dimensional steady compressible Euler flows in a finite nozzle. Journal of Differential Equations, 2019, 266, 4337-4376.	2.2	12
38	Solutions containing delta-waves of Cauchy problems for a nonstrictly hyperbolic system. Acta Mathematicae Applicatae Sinica, 1995, 11, 429-446.	0.7	11
39	Asymptotic behavior of solutions toward the superposition of contact discontinuity and shock wave for compressible Navier-Stokes equations with free boundary. Acta Mathematica Scientia, 2012, 32, 389-412.	1.0	11
40	Isometric Immersions of Surfaces with Two Classes of Metrics and Negative Gauss Curvature. Archive for Rational Mechanics and Analysis, 2015, 218, 1431-1457.	2.4	11
41	L1-convergence rates to the Barenblatt solution for the damped compressible Euler equations. Journal of Differential Equations, 2019, 266, 7890-7908.	2.2	11
42	Hilbert Expansion of the Boltzmann Equation with Specular Boundary Condition in Half-Space. Archive for Rational Mechanics and Analysis, 2021, 241, 231-309.	2.4	11
43	Zero dissipation limit of full compressible Navier-Stokes equations with a Riemann initial data. Communications in Information and Systems, 2013, 13, 211-246.	0.5	11
44	Stability of contact discontinuity for Jin–Xin relaxation system. Journal of Differential Equations, 2008, 244, 1114-1140.	2.2	10
45	Stability of viscous shock wave for compressible Navier-Stokes equations with free boundary. Kinetic and Related Models, 2010, 3, 409-425.	0.9	10
46	On the Convergence Rate of Vanishing Viscosity Approximations for Nonlinear Hyperbolic Systems. SIAM Journal on Mathematical Analysis, 2012, 44, 3537-3563.	1.9	9
47	Vanishing viscosity of isentropic Navier-Stokes equations for interacting shocks. Science China Mathematics, 2015, 58, 653-672.	1.7	9
48	Two-dimensional Riemann problems of simplified Euler equation. Science Bulletin, 1998, 43, 441-444.	1.7	8
49	Zero dissipation limit to rarefaction waves for the 1-D compressible Navier-Stokes equations. Chinese Annals of Mathematics Series B, 2012, 33, 385-394.	0.4	8
50	Global entropy solutions to an inhomogeneous isentropic compressible euler system. Acta Mathematica Scientia, 2016, 36, 1215-1224.	1.0	8
51	Nonlinear stability of large amplitude viscous shock wave for general viscous gas. Journal of Differential Equations, 2020, 269, 1226-1242.	2.2	8
52	Existence of smooth solutions for the compressible barotropic Navier–Stokes–Korteweg system without increasing pressure law. Mathematical Methods in the Applied Sciences, 2020, 43, 5073-5096.	2.3	8
53	Diffusive wave in the low Mach limit for compressible Navier–Stokes equations. Advances in Mathematics, 2017, 319, 348-395.	1.1	8
54	Well-Posedness and Stability of Quantum Hydrodynamics for Semiconductors in $\mathbb{R}^3$. Series in Contemporary Applied Mathematics, 2010, , 131-160.	0.8	8

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55	Justification of limit for the Boltzmann equation related to Korteweg theory. Quarterly of Applied Mathematics, 2016, 74, 719-764.	0.7	7
56	Global Entropy Solutions to the Gas Flow in General Nozzle. SIAM Journal on Mathematical Analysis, 2019, 51, 3276-3297.	1.9	6
57	Stability of Large-Amplitude Viscous Shock Under Periodic Perturbation for 1-d Isentropic Navier–Stokes Equations. Communications in Mathematical Physics, 2021, 387, 1655-1679.	2.2	6
58	The non-steady Navier–Stokes systems with mixed boundary conditions including friction conditions. Methods and Applications of Analysis, 2018, 25, 13-50.	0.5	6
59	Large time behavior of the solutions to the Boltzmann equation with specular reflective boundary condition. Journal of Differential Equations, 2007, 240, 399-429.	2.2	5
60	Stability of planar diffusion wave for nonlinear evolution equation. Science China Mathematics, 2012, 55, 337-352.	1.7	5
61	On the Strong Solution of the Ghost Effect System. SIAM Journal on Mathematical Analysis, 2017, 49, 3496-3526.	1.9	5
62	Global entropy solutions to multi-dimensional isentropic gas dynamics with spherical symmetry. Nonlinearity, 2019, 32, 4505-4523.	1.4	5
63	Thermal creep flow for the Boltzmann equation. Chinese Annals of Mathematics Series B, 2015, 36, 855-870.	0.4	4
64	Macroscopic regularity for the Boltzmann equation. Acta Mathematica Scientia, 2018, 38, 1549-1566.	1.0	3
65	L^1-Convergence to Generalized Barenblatt Solution for Compressible Euler Equations with Time-Dependent Damping. SIAM Journal on Mathematical Analysis, 2021, 53, 6048-6072.	1.9	3
66	Viscous Shock Wave to a Gas-Solid Free Boundary Problem for Compressible Gas. SIAM Journal on Mathematical Analysis, 2004, 36, 498-522.	1.9	2
67	On the convergence rate of a class of reaction hyperbolic systems for axonal transport. Acta Mathematica Scientia, 2015, 35, 945-954.	1.0	2
68	Stability of Transonic Contact Discontinuity for Two-Dimensional Steady Compressible Euler Flows in a Finitely Long Nozzle. Annals of PDE, 2021, 7, 1.	1.8	2
69	Asymptotic stability of planar rarefaction waves under periodic perturbations for 3-d Navier-Stokes equations. Advances in Mathematics, 2022, 404, 108452.	1.1	2
70	Uniqueness on zero pressure gas dynamics. Acta Mathematica Scientia, 2001, 21, 145-151.	1.0	1
71	Isometric Immersion of Surface with Negative Gauss Curvature and the Lax--Friedrichs Scheme. SIAM Journal on Mathematical Analysis, 2016, 48, 2227-2249.	1.9	1
72	Boundary Layer Solution of the Boltzmann Equation for Diffusive Reflection Boundary Conditions in Half-Space. SIAM Journal on Mathematical Analysis, 2022, 54, 3480-3534.	1.9	1

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73	Traveling wave to a reaction-hyperbolic system for axonal transport. Journal of Differential Equations, 2017, 263, 264-284.	2.2	0
74	Large Time Behavior of Solutions for Compressible Navier-Stokes Equations. Series in Contemporary Applied Mathematics, 2012, , 28-43.	0.8	0