Yi Wang

List of Publications by Year
in descending order

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32 papers	638 citations	623734 14 h-index	580821 25 g-index
33 all docs	33 docs citations	33 times ranked	163 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Global Well-Posedness of 2D Compressible Navierâ€"Stokes Equations with Large Data and Vacuum. Journal of Mathematical Fluid Mechanics, 2014, 16, 483-521.	1.0	50
3	Global well-posedness of the Cauchy problem of two-dimensional compressible Navierâ€"Stokes equations in weighted spaces. Journal of Differential Equations, 2013, 255, 351-404.	2.2	46
4	Stability of Rarefaction Waves to the 1D Compressible Navierâ€"Stokes Equations with Density-Dependent Viscosity. Communications in Partial Differential Equations, 2011, 36, 602-634.	2.2	45
5	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.	2.4	40
6	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
7	Hydrodynamic Limit of the Boltzmann Equation with Contact Discontinuities. Communications in Mathematical Physics, 2010, 295, 293-326.	2.2	36
8	Zero Dissipation Limit to Rarefaction Wave with Vacuum for One-Dimensional Compressible Navierâ€"Stokes Equations. SIAM Journal on Mathematical Analysis, 2012, 44, 1742-1759.	1.9	32
9	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
10	Vacuum Behaviors around Rarefaction Waves to 1D Compressible Navier--Stokes Equations with Density-Dependent Viscosity. SIAM Journal on Mathematical Analysis, 2013, 45, 3194-3228.	1.9	25
11	Global classical solution to two-dimensional compressible Navierâ€"Stokes equations with large data in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math>. Physica D: Nonlinear Phenomena, 2018, 376-377, 180-194.	2.8	24
12	Stability of Planar Rarefaction Wave to Two-Dimensional Compressible Navier--Stokes Equations. SIAM Journal on Mathematical Analysis, 2018, 50, 4937-4963.	1.9	22
13	Stability of Planar Rarefaction Wave to 3D Full Compressible Navierâ€"Stokes Equations. Archive for Rational Mechanics and Analysis, 2018, 230, 911-937.	2.4	22
14	The Inviscid Limit to a Contact Discontinuity for the Compressible Navier--Stokes--Fourier System Using the Relative Entropy Method. SIAM Journal on Mathematical Analysis, 2015, 47, 4350-4359.	1.9	15
15	Stability of Nonlinear Wave Patterns to the Bipolar Vlasovâ€"Poissonâ€"Boltzmann System. Archive for Rational Mechanics and Analysis, 2018, 228, 39-127.	2.4	15
16	The limit to rarefaction wave with vacuum for 1D compressible fluids with temperature-dependent transport coefficients. Analysis and Applications, 2015, 13, 555-589.	2.2	14
17	The Global Existence of Solutions for a Cross-diffusion System. Acta Mathematicae Applicatae Sinica, 2005, 21, 519-528.	0.7	12
18	Zero dissipation limit with two interacting shocks of the 1D non-isentropic Navier-Stokes equation. Indiana University Mathematics Journal, 2013, 62, 249-309.	0.9	12

#	Article	IF	Citations
19	L2-contraction of large planar shock waves for multi-dimensional scalar viscous conservation laws. Journal of Differential Equations, 2019, 267, 2737-2791.	2.2	12
20	Vanishing Viscosity Limit to the Planar Rarefaction Wave for the Two-Dimensional Compressible Navierâ€"Stokes Equations. Communications in Mathematical Physics, 2020, 376, 353-384.	2.2	12
21	Energy and cross-helicity conservation for the three-dimensional ideal MHD equations in a bounded domain. Journal of Differential Equations, 2020, 268, 4079-4101.	2.2	12
22	Nonlinear stability of planar rarefaction wave to the three-dimensional Boltzmann equation. Kinetic and Related Models, 2019, 12, 637-679.	0.9	11
23	Stability of contact discontinuity for Jinâ€"Xin relaxation system. Journal of Differential Equations, 2008, 244, 1114-1140.	2.2	10
24	Vanishing viscosity of isentropic Navier-Stokes equations for interacting shocks. Science China Mathematics, 2015, 58, 653-672.	1.7	9
25	Stability of the Superposition of a Viscous Contact Wave with Two Rarefaction Waves to the Bipolar Vlasov--Poisson--Boltzmann System. SIAM Journal on Mathematical Analysis, 2018, 50, 1829-1876.	1.9	6
26	Uniqueness of a Planar Contact Discontinuity for 3D Compressible Euler System in a Class of Zero Dissipation Limits from Navierâ€"Stokesâ€"Fourier System. Communications in Mathematical Physics, 2021, 384, 1751-1782.	2.2	6
27	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
28	Wave Phenomena to the Three-Dimensional Fluid-Particle Model. Archive for Rational Mechanics and Analysis, 2022, 243, 1019-1089.	2.4	5
29	Global solution to 3D spherically symmetric compressible Navierâ€"Stokes equations with large data. Nonlinear Analysis: Real World Applications, 2018, 40, 260-289.	1.7	4
30	Stability of Superposition of Two Viscous Shock Waves for the Boltzmann Equation. SIAM Journal on Mathematical Analysis, 2015, 47, 1070-1120.	1.9	3
31	Vanishing dissipation limit to the planar rarefaction wave for the three-dimensional compressible Navier-Stokes-Fourier equations. Journal of Functional Analysis, 2022, 283, 109499.	1.4	2
32	Large-time behaviors of the solution to 3D compressible Navier-Stokes equations in half space with Navier boundary conditions. Communications on Pure and Applied Analysis, 2021, 20, 2811.	0.8	1