Ronghua Pan

List of Publications by Year
in descending order

35 papers	1,198 citations	331670 21 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	304 citing authors

#	Article	IF	Citations
1	Stability and instability of the 3D incompressible viscous flow in a bounded domain. Calculus of Variations and Partial Differential Equations, 2022, 61, 1.	1.7	0
2	On Classical Solutions for Viscous Polytropic Fluids with Degenerate Viscosities and Vacuum. Archive for Rational Mechanics and Analysis, 2019, 234, 1281-1334.	2.4	25
3	Global Classical Solutions of Three Dimensional Viscous MHD System Without Magnetic Diffusion on Periodic Boxes. Archive for Rational Mechanics and Analysis, 2018, 227, 637-662.	2.4	66
4	Modeling Aurora Type Phenomena by Short Wave-Long Wave Interactions in Multidimensional Large Magnetohydrodynamic Flows. SIAM Journal on Mathematical Analysis, 2018, 50, 6156-6195.	1.9	3
5	Global smooth solutions 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> to short wave-long wave interactions in magnetohydrodynamics. Journal of Differential Equations, 2017, 262, 4129-4179.	2.2	6
6	Singularity Formation for the Compressible Euler Equations. SIAM Journal on Mathematical Analysis, 2017, 49, 2591-2614.	1.9	40
7	On Classical Solutions to 2D Shallow Water Equations with Degenerate Viscosities. Journal of Mathematical Fluid Mechanics, 2017, 19, 151-190.	1.0	25
8	Recent progress on classical solutions for compressible isentropic Navier-Stokes equations with degenerate viscosities and vacuum. Bulletin of the Brazilian Mathematical Society, 2016, 47, 507-519.	0.8	15
9	Initial boundary value problem for 2D Boussinesq equations with temperature-dependent diffusion. Journal of Hyperbolic Differential Equations, 2015, 12, 469-488.	0.5	24
10	On Isentropic Approximations for Compressible Euler Equations. Journal of Scientific Computing, 2015, 64, 745-760.	2.3	2
11	Compressible Navier-Stokes equations with temperature dependent heat conductivity. Communications in Mathematical Sciences, 2015, 13, 401-425.	1.0	51
12	Global Smooth Solutions in $mathbb{R}^3$ to Short Wave-Long Wave Interactions Systems for Viscous Compressible Fluids. SIAM Journal on Mathematical Analysis, 2014, 46, 1946-1968.	1.9	6
13	Zero dissipation limit to a Riemann solution consisting of two shock waves for the 1D compressible isentropic Navier-Stokes equations. Science China Mathematics, 2013, 56, 2205-2232.	1.7	5
14	Global Dynamics of a Hyperbolic-Parabolic Model Arising from Chemotaxis. SIAM Journal on Applied Mathematics, 2012, 72, 417-443.	1.8	72
15	Darcy's Law in One-dimensional Isentropic Porous Medium Flow. Series in Contemporary Applied Mathematics, 2012, , 238-250.	0.8	0
16	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
17	Initial Boundary Value Problem for Two-Dimensional Viscous Boussinesq Equations. Archive for Rational Mechanics and Analysis, 2011, 199, 739-760.	2.4	115
18	Global BV Solutions for theP-System with Frictional Damping. SIAM Journal on Mathematical Analysis, 2009, 41, 1190-1205.	1.9	39

#	Article	IF	Citations
19	The 3D compressible Euler equations with damping in a bounded domain. Journal of Differential Equations, 2009, 246, 581-596.	2.2	52
20	Large time behavior of Euler-Poisson system for semiconductor. Science in China Series A: Mathematics, 2008, 51, 965-972.	0.5	23
21	Stability of contact discontinuity for Jinâ€“Xin relaxation system. Journal of Differential Equations, 2008, 244, 1114-1140.	2.2	10
22	Initial boundary value problem for compressible Euler equations with damping. Indiana University Mathematics Journal, 2008, 57, 2257-2282.	0.9	22
23	Darcy's law as long-time limit of adiabatic porous media flow. Journal of Differential Equations, 2006, 220, 121-146.	2.2	38
24	Asymptotic behavior of the solutions to the damped compressible Euler equations with vacuum. Journal of Differential Equations, 2006, 220, 207-233.	2.2	60
25	Blowup of Smooth Solutions for Relativistic Euler Equations. Communications in Mathematical Physics, 2006, 262, 729-755.	2.2	33
26	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
27	Convergence Rate for Compressible Euler Equations with Damping and Vacuum. Archive for Rational Mechanics and Analysis, 2003, 166, 359-376.	2.4	106
28	On the Diffusive Profiles for the System of Compressible Adiabatic Flow through Porous Media. SIAM Journal on Mathematical Analysis, 2001, 33, 790-826.	1.9	36
29	Boundary effects and large time behavior for the system of compressible adiabatic flow through porous media. Michigan Mathematical Journal, 2001, 49, 519.	0.4	18
30	The linear stability of traveling wave solutions for a reacting flow model with source term. Quarterly of Applied Mathematics, 2000, 58, 219-238.	0.7	4
31	THE NONLINEAR STABILITY OF TRAVELLING WAVE SOLUTIONS FOR A REACTING FLOW MODEL WITH SOURCE TERM. Acta Mathematica Scientia, 1999, 19, 26-36.	1.0	9
32	Zero Relaxation Limit to Centered Rarefaction Waves for a Rate-Type Viscoelastic System. Journal of Differential Equations, 1999, 157, 20-40.	2.2	18
33	Initial Boundary Value Problem for the System of Compressible Adiabatic Flow Through Porous Media. Journal of Differential Equations, 1999, 159, 280-305.	2.2	60
34	NONLINEAR STABILITY OF RAREFACTION WAVES FOR A RATE-TYPE VISCOELASTIC SYSTEM. Chinese Annals of Mathematics Series B, 1999, 20, 223-232.	0.4	16
35	NONLINEAR STABILITY OF TWO-MODE SHOCK PROFILES FOR A RATE-TYPE VISCOELASTIC SYSTEM WITH RELAXATION. Chinese Annals of Mathematics Series B, 1999, 20, 479-488.	0.4	6