

Xianpeng Hu

List of Publications by Year in descending order

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31
papers

1,196
citations

567281

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docs citations

31
times ranked

243
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Existence and Large-Time Behavior of Solutions to the Three-Dimensional Equations of Compressible Magnetohydrodynamic Flows. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 197, 203-238.	2.4	250
2	Global Solutions to the Three-Dimensional Full Compressible Magnetohydrodynamic Flows. <i>Communications in Mathematical Physics</i> , 2008, 283, 255-284.	2.2	197
3	Low Mach Number Limit of Viscous Compressible Magnetohydrodynamic Flows. <i>SIAM Journal on Mathematical Analysis</i> , 2009, 41, 1272-1294.	1.9	117
4	Global existence for the multi-dimensional compressible viscoelastic flows. <i>Journal of Differential Equations</i> , 2011, 250, 1200-1231.	2.2	86
5	Global Existence and Optimal Decay Rates for Three-Dimensional Compressible Viscoelastic Flows. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 2815-2833.	1.9	69
6	Local strong solution to the compressible viscoelastic flow with large data. <i>Journal of Differential Equations</i> , 2010, 249, 1179-1198.	2.2	64
7	Global Solution to the Three-Dimensional Incompressible Flow of Liquid Crystals. <i>Communications in Mathematical Physics</i> , 2010, 296, 861-880.	2.2	57
8	Compactness of weak solutions to the three-dimensional compressible magnetohydrodynamic equations. <i>Journal of Differential Equations</i> , 2008, 245, 2176-2198.	2.2	45
9	Global Solutions of Two-Dimensional Incompressible Viscoelastic Flows with Discontinuous Initial Data. <i>Communications on Pure and Applied Mathematics</i> , 2016, 69, 372-404.	3.1	43
10	Global Solution to the Three-Dimensional Compressible Flow of Liquid Crystals. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 2678-2699.	1.9	42
11	Strong solutions to the three-dimensional compressible viscoelastic fluids. <i>Journal of Differential Equations</i> , 2012, 252, 4027-4067.	2.2	27
12	The initial-boundary value problem for the compressible viscoelastic flows. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 917-934.	0.9	25
13	Long-time behavior and weak-strong uniqueness for incompressible viscoelastic flows. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 3437-3461.	0.9	23
14	Global existence of weak solutions to two dimensional compressible viscoelastic flows. <i>Journal of Differential Equations</i> , 2018, 265, 3130-3167.	2.2	17
15	A Blowup Criterion for Ideal Viscoelastic Flow. <i>Journal of Mathematical Fluid Mechanics</i> , 2013, 15, 431-437.	1.0	16
16	Global existence for the compressible viscoelastic system with zero shear viscosity in three dimensions. <i>Journal of Differential Equations</i> , 2020, 268, 1658-1685.	2.2	15
17	Suitable Weak Solutions for the Co-rotational Beris-Edwards System in Dimension Three. <i>Archive for Rational Mechanics and Analysis</i> , 2020, 238, 749-803.	2.4	15
18	Optimal decay rates of isentropic compressible Navier-Stokes equations with discontinuous initial data. <i>Journal of Differential Equations</i> , 2020, 269, 8132-8172.	2.2	12

#	ARTICLE	IF	CITATIONS
19	Long-time dynamics of the nonhomogeneous incompressible flow of nematic liquid crystals. <i>Communications in Mathematical Sciences</i> , 2013, 11, 779-806.	1.0	12
20	Global Solutions to Repulsive Hookean Elastodynamics. <i>Archive for Rational Mechanics and Analysis</i> , 2017, 223, 543-590.	2.4	11
21	Global Existence of Compressible Dissipative Elastodynamics Systems with Zero Shear Viscosity in Two Dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 2020, 235, 1177-1243.	2.4	11
22	Formation of singularity for compressible viscoelasticity. <i>Acta Mathematica Scientia</i> , 2012, 32, 109-128.	1.0	8
23	Well-posedness of the free boundary problem for incompressible elastodynamics. <i>Journal of Differential Equations</i> , 2019, 266, 7844-7889.	2.2	8
24	Hausdorff Dimension of Concentration for Isentropic Compressible Navier–Stokes Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 234, 375-416.	2.4	7
25	Equations for Viscoelastic Fluids. , 2018, , 1045-1073.		6
26	Global solution to the 3D inhomogeneous nematic liquid crystal flows with variable density. <i>Journal of Differential Equations</i> , 2018, 264, 5300-5332.	2.2	4
27	Scaling Limit for Compressible Viscoelastic Fluids. , 2014, , 243-269.		3
28	Weak Solutions for Compressible Isentropic Navier–Stokes Equations in Dimensions Three. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 242, 1907-1945.	2.4	2
29	Incompressible Limit of Three Dimensional Compressible Viscoelastic Systems with Vanishing Shear Viscosity. <i>Archive for Rational Mechanics and Analysis</i> , 2022, 245, 753-807.	2.4	2
30	Equations for Viscoelastic Fluids. , 2016, , 1-29.		1
31	Defects in Liquid Crystal Flows. <i>SIAM Journal on Mathematical Analysis</i> , 2022, 54, 1695-1717.	1.9	1