Fucai Li

List of Publications by Year
in descending order

67 papers	881 citations	516710 16 h-index	501196 28 g-index
67 all docs	67 docs citations	67 times ranked	187 citing authors

#	Article	IF	Citations
1	Incompressible Limit of the Compressible Magnetohydrodynamic Equations with Periodic Boundary Conditions. Communications in Mathematical Physics, 2010, 297, 371-400.	2.2	133
2	Optimal decay rate of classical solutions to the compressible magnetohydrodynamic equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2011, 141, 109-126.	1.2	75
3	Low Mach number limit for the full compressible magnetohydrodynamic equations with general initial data. Advances in Mathematics, 2014, 259, 384-420.	1.1	73
4	Low Mach number limit for the multi-dimensional full magnetohydrodynamic equations. Nonlinearity, 2012, 25, 1351-1365.	1.4	59
5	Incompressible Limit of the Compressible Magnetohydrodynamic Equations with Vanishing Viscosity Coefficients. SIAM Journal on Mathematical Analysis, 2010, 42, 2539-2553.	1.9	57
6	The quasineutral limit of compressible Navierâ€“Stokesâ€“Poisson system with heat conductivity and general initial data. Journal of Differential Equations, 2009, 247, 203-224.	2.2	51
7	Convergence of the Navierâ€“Stokesâ€“Poisson system to the incompressible Navierâ€“Stokes equations. Journal of Mathematical Physics, 2008, 49, .	1.1	30
8	Rigorous derivation of the compressible magnetohydrodynamic equations from the electromagnetic fluid system. Nonlinearity, 2012, 25, 1735-1752.	1.4	27
9	Nonrelativistic Limit of the Compressible Navier--Stokes--Fourier--P1 Approximation Model Arising in Radiation Hydrodynamics. SIAM Journal on Mathematical Analysis, 2015, 47, 3726-3746.	1.9	25
10	Quasineutral limit of the electro-diffusion model arising in electrohydrodynamics. Journal of Differential Equations, 2009, 246, 3620-3641.	2.2	24
11	Incompressible Limit of the Nonisentropic Ideal Magnetohydrodynamic Equations. SIAM Journal on Mathematical Analysis, 2016, 48, 302-319.	1.9	22
12	Asymptotic Limits of the Full Compressible Magnetohydrodynamic Equations. SIAM Journal on Mathematical Analysis, 2013, 45, 2597-2624.	1.9	21
13	Regularity criteria for the three-dimensional magnetohydrodynamic equations. Journal of Differential Equations, 2014, 256, 2858-2875.	2.2	21
14	Convergence of the complete electromagnetic fluid system to the full compressible magnetohydrodynamic equations. Asymptotic Analysis, 2015, 95, 161-185.	0.5	19
15	Low Mach number limit of the full compressible Navierâ€“Stokesâ€“Maxwell system. Journal of Mathematical Analysis and Applications, 2014, 412, 334-344.	1.0	18
16	Zero dielectric constant limit to the non-isentropic compressible Euler-Maxwell system. Science China Mathematics, 2015, 58, 61-76.	1.7	16
17	Uniform well-posedness and singular limits of the isentropic Navierâ€“Stokesâ€“Maxwell system in a bounded domain. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1581-1593.	1.4	15
18	Local well-posedness for a compressible non-isothermal model for nematic liquid crystals. Journal of Mathematical Physics, 2018, 59, .	1.1	14

#	Article	IF	Citations
19	Asymptotic limits of the isentropic compressible viscous magnetohydrodynamic equations with Navier-slip boundary conditions. Journal of Differential Equations, 2019, 267, 6910-6957.	2.2	13
20	Global strong solution to the 2D density-dependent liquid crystal flows with vacuum. Nonlinear Analysis: Theory, Methods & Applications, 2014, 97, 185-190.	1.1	11
21	Non-relativistic and low mach number limits of two $P1$ approximation model arising in radiation hydrodynamics. Communications in Mathematical Sciences, 2016, 14, 2023-2036.	1.0	11
22	Convergence of the Vlasov-Poisson-Fokker-Planck system to the incompressible Euler equations. Science in China Series A: Mathematics, 2006, 49, 255-266.	0.5	10
23	A blow-up criterion to the 2D full compressible magnetohydrodynamic equations. Mathematical Methods in the Applied Sciences, 2015, 38, 2073-2080.	2.3	9
24	Combined quasineutral and inviscid limit of the Vlasov-Poisson-Fokker-Planck system. Communications on Pure and Applied Analysis, 2008, 7, 579-589.	0.8	9
25	Convergence of the full compressible Navier-Stokes-Maxwell system to the incompressible magnetohydrodynamic equations in a bounded domain. Kinetic and Related Models, 2016, 9, 443-453.	0.9	7
26	The incompressible limits of compressible Navier-Stokes equations in the whole space with general initial data. Chinese Annals of Mathematics Series B, 2009, 30, 17-26.	0.4	6
27	Regularity criteria and uniform estimates for the Boussinesq system with temperature-dependent viscosity and thermal diffusivity. Journal of Mathematical Physics, 2014, 55, 051505.	1.1	6
28	Large time behavior of the isentropic compressible Navierâ€“Stokesâ€“Maxwell system. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	6
29	Regularity criteria for the incompressible magnetohydrodynamic equations with partial viscosity. Analysis and Applications, 2016, 14, 321-339.	2.2	6
30	Global strong solutions to the 3D full compressible Navierâ€“Stokes system with vacuum in a bounded domain. Applied Mathematics Letters, 2018, 78, 31-35.	2.7	6
31	Incompressible limit of the degenerate quantum compressible Navierâ€“Stokes equations with general initial data. Journal of Differential Equations, 2018, 264, 3253-3284.	2.2	6
32	Low Mach Number Limit of the Non-isentropic Ideal Magnetohydrodynamic Equations. Journal of Mathematical Fluid Mechanics, 2021, 23, 1.	1.0	6
33	Local well-posedness and low Mach number limit of the compressible magnetohydrodynamic equations in critical spaces. Kinetic and Related Models, 2017, 10, 741-784.	0.9	6
34	Uniform Local Well-Posedness to the Density-Dependent Navier-Stokes-Maxwell System. Acta Applicandae Mathematicae, 2014, 133, 19-32.	1.0	5
35	Global strong solution to the two-dimensional density-dependent magnetohydrodynamic equations with vaccum. Communications on Pure and Applied Analysis, 2014, 13, 1481-1490.	0.8	5
36	Regularity criteria for Navier-Stokes-Allen-Cahn and related systems. Frontiers of Mathematics in China, 2019, 14, 301-314.	0.7	5

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37	Convergence of the Full Compressible Navierâ€“Stokesâ€“Maxwell System to the Incompressible Magnetohydrodynamic Equations in a Bounded Domain II: Global Existence Case. Journal of Mathematical Fluid Mechanics, 2018, 20, 359-378.	1.0	4
38	Global strong solutions to the 3D compressible non-isentropic MHD equations with zero resistivity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	4
39	Low Mach number limit for the compressible magnetohydrodynamic equations in a periodic domain. Discrete and Continuous Dynamical Systems, 2018, 38, 1669-1705.	0.9	4
40	Semigroup decay of the linearized Boltzmann equation in a torus. Journal of Differential Equations, 2016, 260, 2729-2749.	2.2	3
41	Local wellâ€posedness and blowâ€up criterion for a compressible Navierâ€Stokesâ€Fourierâ€P1 approximate model arising in radiation hydrodynamics. Mathematical Methods in the Applied Sciences, 2017, 40, 6987-6997.	2.3	3
42	Incompressible inviscid limit of the viscous two-fluid model with general initial data. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	1.4	3
43	Quasi-neutral limit of the Navierâ€“Stokesâ€“Fourierâ€“Poisson system for ionic dynamics. Applicable Analysis, 2019, 98, 651-665.	1.3	3
44	Global Strong Solutions to a Coupled Chemotaxis-Fluid Model with Subcritical Sensitivity. Acta Applicandae Mathematicae, 2020, 169, 767-791.	1.0	3
45	Regularity criteria for a mathematical model for the deformation of electrolyte droplets. Applied Mathematics Letters, 2013, 26, 494-499.	2.7	2
46	Global solutions to the Navierâ€“Stokes- $${ar omega}$$ and related models with rough initial data. Zeitschrift Fur Angewandte Mathematik Und Physik, 2014, 65, 301-314.	1.4	2
47	Asymptotic limit of the Gross-Pitaevskii equation with general initial data. Science China Mathematics, 2016, 59, 1113-1126.	1.7	2
48	Optimal Exponential Decay for the Linearized Ellipsoidal BGK Model in Weighted Sobolev Spaces. Journal of Statistical Physics, 2020, 181, 690-714.	1.2	2
49	Convergence of the twoâ€fluid compressible Navierâ€“Stokesâ€“Poisson system to the incompressible Euler equations. Mathematical Methods in the Applied Sciences, 2020, 43, 6262-6275.	2.3	2
50	Zero viscosity-resistivity limit for the 3D incompressible magnetohydrodynamic equations in Gevrey class. Discrete and Continuous Dynamical Systems, 2018, 38, 4279-4304.	0.9	2
51	Global existence and low Mach number limit to the 3D compressible magnetohydrodynamic equations in a bounded domain. , 2015, , .		2
52	A Regularity Criterion for the 3 D $3D$ Full Compressible Navier-Stokes-Maxwell System in a Bounded Domain. Acta Applicandae Mathematicae, 2017, 149, 1-10.	1.0	1
53	Low Mach Number Limit of a Compressible Non-Isothermal Nematic Liquid Crystals Model. Acta Mathematica Scientia, 2019, 39, 449-460.	1.0	1
54	Zero Kinematic Viscosity-Magnetic Diffusion Limit of the Incompressible Viscous Magnetohydrodynamic Equations with Navier Boundary Conditions. Acta Mathematica Scientia, 2021, 41, 1503-1536.	1.0	1

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55	Global strong solutions to the Vlasov-Poisson-Boltzmann system with soft potential in a bounded domain. Journal of Differential Equations, 2021, 305, 143-205.	2.2	1
56	Uniform local well-posedness and regularity criterion for the density-dependent incompressible flow of liquid crystals. Communications in Mathematical Sciences, 2014, 12, 1185-1197.	1.0	1
57	Low Mach Number Limit for the Full Compressible Magnetohydrodynamic Equations Without Thermal Conductivity. Acta Applicandae Mathematicae, 2022, 179, 1.	1.0	1
58	Low Mach number limit of the full compressible mhd equations with Cattaneoâ€™s heat transfer law. Communications in Mathematical Sciences, 2022, 20, 1459-1475.	1.0	1
59	A blow-up criterion for the full compressible Eulerâ€“Maxwell system. Nonlinear Analysis: Theory, Methods & Applications, 2016, 139, 152-157.	1.1	0
60	A regularity criterion for the compressible hydrodynamicâ€Maxwell system. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 183-189.	1.6	0
61	Two regularity criteria for 3D Navier-Stokes equations in a bounded domain. Frontiers of Mathematics in China, 2017, 12, 359-366.	0.7	0
62	Uniform regularity of the compressible full Navierâ€“Stokesâ€“Maxwell system. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	1.4	0
63	Asymptotic Limits of the Compressible Magnetohydrodynamic Equations. Series in Contemporary Applied Mathematics, 2012, , 439-446.	0.8	0
64	The local well-posedness of a chemotaxis-shallow water system with vacuum. Acta Mathematica Scientia, 2021, 41, 231-240.	1.0	0
65	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
66	Asymptotic limits of dissipative turbulent solutions to a compressible two-fluid model. Nonlinear Analysis: Real World Applications, 2022, 66, 103545.	1.7	0
67	Low Mach number limit of the compressible Eulerâ€“Cattaneoâ€“Maxwell equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	1.4	0