

# Shu Wang

## List of Publications by Year in descending order

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83  
papers

809  
citations

687363

13  
h-index

526287

27  
g-index

83  
all docs

83  
docs citations

83  
times ranked

225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergence to Steady-States of Compressible Navier-Stokes-Maxwell Equations. <i>Journal of Nonlinear Science</i> , 2022, 32, 1.	2.1	2
2	Blowup of smooth solutions to the isentropic compressible quantum hydrodynamic model. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 10917-10924.	2.3	1
3	On the 3D Incompressible Boussinesq Equations in a Class of Variant Spherical Coordinates. <i>Journal of Function Spaces</i> , 2022, 2022, 1-12.	0.9	2
4	Stability of Non-constant Equilibrium Solutions for Compressible Viscous and Diffusive MHD Equations with the Coulomb Force. <i>Journal of Dynamics and Differential Equations</i> , 2021, 33, 985-1021.	1.9	3
5	Existence of global weak solutions for the high frequency and small displacement oscillation fluid-structure interaction systems. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3249-3259.	2.3	5
6	Stability of Non-constant Equilibrium Solutions for the Full Compressible Navier-Stokes-Maxwell System. <i>Journal of Mathematical Fluid Mechanics</i> , 2021, 23, 1.	1.0	2
7	Global Weak Solutions to the $\hat{\mu}$ -Model Regularization for 3D Compressible Euler-Poisson Equations. <i>Acta Mathematica Scientia</i> , 2021, 41, 679-702.	1.0	0
8	Asymptotic decay of bipolar isentropic/non-isentropic compressible Navier-Stokes-Maxwell systems. <i>Journal of Differential Equations</i> , 2021, 301, 471-542.	2.2	5
9	The global convergence of non-isentropic Euler-Maxwell equations via Infinity-Ion-Mass limit. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2021, 72, 1.	1.4	0
10	Hsiao's PDE theory on semi-conductor and plasma and their applications. <i>Methods and Applications of Analysis</i> , 2021, 28, 249-264.	0.5	0
11	Boundary layers associated with the 3-D Boussinesq system for Rayleigh-Bénard convection. <i>Applicable Analysis</i> , 2020, 99, 2026-2044.	1.3	1
12	On the vanishing viscosity limit for a 3D system arising from the Keller-Segel model. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 920-938.	2.3	1
13	The Boundary Layer Problem of MHD System with the Non-characteristic Dirichlet Boundary Condition for Velocity. <i>Acta Applicandae Mathematicae</i> , 2020, 169, 183-192.	1.0	0
14	Vanishing cross-diffusion limit in a Keller-Segel system with additional cross-diffusion. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2020, 192, 111698.	1.1	4
15	The Regularity Criteria and the A Priori Estimate on the 3D Incompressible Navier-Stokes Equations in Orthogonal Curvilinear Coordinate Systems. <i>Journal of Function Spaces</i> , 2020, 2020, 1-9.	0.9	1
16	The Global Well-Posedness for Large Amplitude Smooth Solutions for 3D Incompressible Navier-Stokes and Euler Equations Based on a Class of Variant Spherical Coordinates. <i>Mathematics</i> , 2020, 8, 1195.	2.2	3
17	Quasi-neutral limit and the initial layer problem of the drift-diffusion model. <i>Acta Mathematica Scientia</i> , 2020, 40, 1152-1170.	1.0	0
18	Global zero-relaxation limit of the non-isentropic Euler-Poisson system for ion dynamics. <i>Asymptotic Analysis</i> , 2020, 120, 301-318.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Stability of planar rarefaction wave to the 3D bipolar Vlasov-Poisson-Boltzmann system. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 23-104.	3.3	4
20	Boundary layer analysis for a 2-D Keller-Segel model. <i>Open Mathematics</i> , 2020, 18, 1895-1914.	1.0	0
21	Initial layer and incompressible limit for Euler-Poisson equation in nonthermal plasma. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 1733-1751.	3.3	3
22	Klein-Gordon-Zakharov system in energy space: Blow-up profile and subsonic limit. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 3211-3221.	2.3	27
23	Quasi-neutral limit and the boundary layer problem of Planck-Nernst-Poisson-Navier-Stokes equations for electro-hydrodynamics. <i>Journal of Differential Equations</i> , 2019, 267, 3475-3523.	2.2	8
24	Viscosity vanishing limit of the nonlinear pipe magnetohydrodynamic flow with diffusion. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 161-174.	2.3	2
25	Boundary layer problem of MHD system with non-characteristic perfect conducting wall. <i>Applicable Analysis</i> , 2019, 98, 516-535.	1.3	2
26	Existence of BPS vortices in string theory. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 4244-4258.	2.3	2
27	Solutions to quasilinear hyperbolic conservation laws with initial discontinuities. <i>Acta Mathematica Scientia</i> , 2018, 38, 203-219.	1.0	0
28	Stability of nonconstant steady-state solutions for fluid nonisentropic Euler-Poisson equations in semiconductor. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 3588-3604.	2.3	1
29	Diffusion vanishing limit of the nonlinear pipe Magnetohydrodynamic flow with fixed viscosity. <i>Acta Mathematica Scientia</i> , 2018, 38, 627-642.	1.0	1
30	Initial layer problem of the Boussinesq system for Rayleigh-Bénard convection with infinite Prandtl number limit. <i>Open Mathematics</i> , 2018, 16, 1145-1160.	1.0	0
31	Some limit analysis of a three dimensional viscous compressible capillary model for plasma. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 5535-5551.	2.3	1
32	Stability of Non-constant Equilibrium Solutions for Bipolar Full Compressible Navier-Stokes-Maxwell Systems. <i>Journal of Nonlinear Science</i> , 2018, 28, 2187-2215.	2.1	3
33	Vanishing vertical limit of the incompressible combined viscosity and magnetic diffusion magnetohydrodynamic system. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 5015-5049.	2.3	0
34	Stability of non-constant equilibrium solutions for two-fluid non-isentropic Euler-Maxwell systems arising in plasmas. <i>Journal of Mathematical Physics</i> , 2018, 59, 073105.	1.1	2
35	Quasineutral limit for the compressible quantum Navier-Stokes-Maxwell equations. <i>Communications in Mathematical Sciences</i> , 2018, 16, 363-391.	1.0	6
36	Initial-boundary value problem for 2D micropolar equations without angular viscosity. <i>Communications in Mathematical Sciences</i> , 2018, 16, 2147-2165.	1.0	8

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37	Boundary layer problem and zero viscosity-diffusion limit of the incompressible magnetohydrodynamic system with no-slip boundary conditions. <i>Journal of Differential Equations</i> , 2017, 263, 4723-4749.	2.2	16
38	Stability of non-constant steady-state solutions for non-isentropic Euler-Maxwell system with a temperature damping term. <i>Mathematical Methods in the Applied Sciences</i> , 2016, 39, 2514-2528.	2.3	11
39	Stability of non-constant steady-state solutions for bipolar non-isentropic Euler-Maxwell equations with damping terms. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016, 67, 1.	1.4	4
40	Blowup results for the KGS system with higher order Yukawa coupling. <i>Journal of Mathematical Physics</i> , 2015, 56, .	1.1	1
41	Zero viscosity and diffusion vanishing limit of the incompressible magnetohydrodynamic system with perfectly conducting wall. <i>Nonlinear Analysis: Real World Applications</i> , 2015, 24, 50-60.	1.7	6
42	Stability of non-constant equilibrium solutions for two-fluid Euler-Maxwell systems. <i>Nonlinear Analysis: Real World Applications</i> , 2015, 26, 372-390.	1.7	9
43	Global existence and asymptotic decay of solutions to the non-isentropic Euler-Maxwell system. <i>Mathematical Models and Methods in Applied Sciences</i> , 2014, 24, 2851-2884.	3.3	24
44	Asymptotic behavior of global smooth solutions for full compressible Navier-Stokes-Maxwell equations. <i>Nonlinear Analysis: Real World Applications</i> , 2014, 19, 105-116.	1.7	22
45	Two blowup solutions for the inhomogeneous isotropic Landau-Lifshitz equation. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 409, 74-83.	1.0	5
46	On Finite Time Singularity and Global Regularity of an Axisymmetric Model for the 3D Euler Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 212, 683-706.	2.4	19
47	Convergence of compressible Navier-Stokes-Maxwell equations to incompressible Navier-Stokes equations. <i>Science China Mathematics</i> , 2014, 57, 2153-2162.	1.7	7
48	Low Mach number limit of non-isentropic magnetohydrodynamic equations in a bounded domain. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2014, 105, 102-119.	1.1	7
49	The perturbed problem on the boussinesq system of Rayleigh-Bénard convection. <i>Acta Mathematicae Applicatae Sinica</i> , 2014, 30, 75-88.	0.7	0
50	Convergence of the Euler-Maxwell two-fluid system to compressible Euler equations. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 417, 889-903.	1.0	2
51	Blowup rate of isotropic anti-ferromagnetic equation near the equivariant data. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 2222-2239.	3.3	0
52	Some blowup solutions about two systems derived from Landau-Lifshitz-Gilbert equation. <i>Applied Mathematical Modelling</i> , 2013, 37, 4177-4188.	4.2	1
53	Positive Solution of a Nonlinear Fractional Differential Equation Involving Caputo Derivative. <i>Discrete Dynamics in Nature and Society</i> , 2012, 2012, 1-16.	0.9	9
54	The Mixed Layer Problem and Quasi-Neutral Limit of the Drift-Diffusion Model for Semiconductors. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 699-717.	1.9	11

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55	A Result on Global Solutions to 3D Complex Ginzburg-Landau Equation. Series in Contemporary Applied Mathematics, 2012, , 739-747.	0.8	0
56	Exact Configuration for 3D Ginzburg-Landau Equation Based on Some ODEs. Series in Contemporary Applied Mathematics, 2012, , 748-756.	0.8	0
57	On Singularity Formation of a Nonlinear Nonlocal System. Archive for Rational Mechanics and Analysis, 2011, 199, 117-144.	2.4	10
58	SOME PERIODIC AND BLOW-UP SOLUTIONS FOR LANDAU-LIFSHITZ EQUATION. Modern Physics Letters A, 2011, 26, 2437-2452.	1.2	6
59	Global Regularity of Solutions of 2D Magnetohydrodynamic Equations with Fractional Power Diffusion. , 2010, , .		0
60	Rigorous derivation of incompressible type Euler equations from non-isentropic Euler-Maxwell equations. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 3613-3625.	1.1	5
61	Quasi-neutral limit to the drift-diffusion models for semiconductors with physical contact-insulating boundary conditions and the general sign-changing doping profile. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 3612-3626.	1.1	1
62	Convergence of compressible Euler-Poisson system to incompressible Euler equations. Applied Mathematics and Computation, 2010, 216, 3408-3418.	2.2	4
63	Asymptotic Stability for a Class of Nonlinear Difference Equations. Discrete Dynamics in Nature and Society, 2010, 2010, 1-10.	0.9	5
64	The Numerical Convergence of the Landau-Lifshitz Equations and Its Simulation. Discrete Dynamics in Nature and Society, 2010, 2010, 1-13.	0.9	1
65	The Convergence of Euler-Poisson System to the Incompressible Euler Equations. Series in Contemporary Applied Mathematics, 2010, , 225-257.	0.8	0
66	Rate of convergence from the Navier-Stokes-Poisson system to the incompressible Euler equations. Journal of Mathematical Physics, 2009, 50, 013533.	1.1	13
67	Global Asymptotic Stability of 3-Species Mutualism Models with Diffusion and Delay Effects. Discrete Dynamics in Nature and Society, 2009, 2009, 1-20.	0.9	6
68	The Non-Relativistic Limit of Radiation Hydrodynamics Equations Arising from Astrophysics. , 2009, , .		0
69	Quasi-neutral Limit of the Drift-Diffusion Models for Semiconductors with PN-Junctions. , 2009, , .		0
70	Oscillation of partial population model with diffusion and delay. Applied Mathematics Letters, 2009, 22, 1793-1797.	2.7	8
71	On the Inviscid Limit for the 2D Non-dissipative Quasi-geostrophic Equations. , 2009, , .		0
72	Quasi-neutral limit of the drift-diffusion model for semiconductors with general sign-changing doping profile. Science in China Series A: Mathematics, 2008, 51, 1619-1630.	0.5	3

#	ARTICLE	IF	CITATIONS
73	Convergence of Compressible Euler-Maxwell Equations to Incompressible Euler Equations. Communications in Partial Differential Equations, 2008, 33, 349-376.	2.2	65
74	Convergence of the Navier-Stokes-Poisson system to the incompressible Navier-Stokes equations. Journal of Mathematical Physics, 2008, 49, .	1.1	30
75	Asymptotic limits of compressible Euler-Maxwell system in plasma physics. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1041005-1041006.	0.2	1
76	Convergence of the Vlasov-Poisson-Boltzmann System to the Incompressible Euler Equations. Acta Mathematica Sinica, English Series, 2007, 23, 761-768.	0.6	2
77	Convergence of Compressible Euler-Maxwell Equations to Compressible Euler-Poisson Equations*. Chinese Annals of Mathematics Series B, 2007, 28, 583-602.	0.4	45
78	Quasi-neutral Limit of the Drift Diffusion Models for Semiconductors: The Case of General Sign-Changing Doping Profile. SIAM Journal on Mathematical Analysis, 2006, 37, 1854-1889.	1.9	31
79	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
80	The Convergence of the Navier-Stokes-Poisson System to the Incompressible Euler Equations. Communications in Partial Differential Equations, 2006, 31, 571-591.	2.2	123
81	QUASINEUTRAL LIMIT OF THE MULTI-DIMENSIONAL DRIFT-DIFFUSION-POISSON MODELS FOR SEMICONDUCTORS WITH PN-JUNCTIONS. Mathematical Models and Methods in Applied Sciences, 2006, 16, 537-557.	3.3	13
82	Quasineutral Limit of Euler-Poisson System with and without Viscosity. Communications in Partial Differential Equations, 2005, 29, 419-456.	2.2	97
83	The asymptotic behavior of globally smooth solutions of the multidimensional isentropic hydrodynamic model for semiconductors. Journal of Differential Equations, 2003, 192, 111-133.	2.2	75