Zhong Tan

List of Publications by Year
in descending order

70 papers	709 citations	687363 13 h-index	580821 25 g-index
70 all docs	70 docs citations	70 times ranked	203 citing authors

#	Article	IF	Citations
1	Global existence and convergence rates of smooth solutions for the compressible magnetohydrodynamic equations. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 4438-4451.	1.1	76
2	On the existence of solutions to the Navierâ€“Stokesâ€“Poisson equations of a two-dimensional compressible flow. Mathematical Methods in the Applied Sciences, 2007, 30, 305-329.	2.3	74
3	Strong solutions to the incompressible magnetohydrodynamic equations. Mathematical Methods in the Applied Sciences, 2011, 34, 94-107.	2.3	57
4	Global weak solution to the flow of liquid crystals system. Mathematical Methods in the Applied Sciences, 2009, 32, 2243-2266.	2.3	50
5	Global solution and large-time behavior of the 3D compressible Euler equations with damping. Journal of Differential Equations, 2013, 254, 1686-1704.	2.2	40
6	Global existence and large-time behavior of weak solutions to the compressible magnetohydrodynamic equations with Coulomb force. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 5866-5884.	1.1	36
7	Global existence and decay estimate of solutions to magneto-micropolar fluid equations. Journal of Differential Equations, 2019, 266, 4137-4169.	2.2	32
8	The method of A-harmonic approximation and optimal interior partial regularity for nonlinear elliptic systems under the controllable growth condition. Journal of Mathematical Analysis and Applications, 2007, 335, 20-42.	1.0	30
9	GLOBAL SOLUTION AND BLOWUP OF SEMILINEAR HEAT EQUATION WITH CRITICAL SOBOLEV EXPONENT. Communications in Partial Differential Equations, 2001, 26, 717-741.	2.2	26
10	Stability of Steady States of the Navier--Stokes--Poisson Equations with Non-Flat Doping Profile. SIAM Journal on Mathematical Analysis, 2015, 47, 179-209.	1.9	26
11	Regularity criteria for the three-dimensional magnetohydrodynamic equations. Journal of Differential Equations, 2014, 256, 2858-2875.	2.2	21
12	A Generalized Poisson--Nernst--Planck--Navier--Stokes Model on the Fluid with the Crowded Charged Particles: Derivation and Its Well-Posedness. SIAM Journal on Mathematical Analysis, 2016, 48, 3191-3235.	1.9	20
13	On hyperbolic-dissipative systems of composite type. Journal of Differential Equations, 2016, 260, 1091-1125.	2.2	15
14	Energy dissipation for weak solutions of incompressible MHD equations. Acta Mathematica Scientia, 2013, 33, 865-871.	1.0	12
15	Time periodic solutions of the compressible magnetohydrodynamic equations. Nonlinear Analysis: Theory, Methods & Applications, 2013, 76, 153-164.	1.1	12
16	Well-posedness on a new hydrodynamic model of the fluid with the dilute charged particles. Journal of Differential Equations, 2017, 262, 68-115.	2.2	12
17	Global existence of strong solutions of Navier-Stokes-Poisson equations for one-dimensional isentropic compressible fluids. Chinese Annals of Mathematics Series B, 2008, 29, 441-458.	0.4	11
18	Periodic solutions to the compressible magnetohydrodynamic equations in a periodic domain. Journal of Mathematical Analysis and Applications, 2015, 426, 172-193.	1.0	11

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19	Partial regularity in the interior for discontinuous inhomogeneous elliptic system with VMO-coefficients. Annali Di Matematica Pura Ed Applicata, 2017, 196, 85-105.	1.0	10
20	A class of global large solutions to the magnetohydrodynamic equations with fractional dissipation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	1.4	10
21	Global existence and optimal decay rate for the strong solutions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math> of the 3-D compressible Navierâ€“Stokes equations without heat conductivity. Journal of Mathematical Analysis and Applications, 2012, 394, 571-590.	1.0	9
22	Optimal partial regularity for nonlinear sub-elliptic systems. Journal of Mathematical Analysis and Applications, 2012, 387, 166-180.	1.0	8
23	Stability of steady states of the compressible Eulerâ€“Poisson system 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>. Journal of Mathematical Analysis and Applications, 2015, 422, 1058-1071.	1.0	6
24	Optimal partial regularity of second order parabolic systems under controllable growth condition. Journal of Functional Analysis, 2014, 266, 4908-4937.	1.4	5
25	Local 4/5-law and energy dissipation anomaly in turbulence of incompressible MHD Equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	5
26	Partial regularity for subquadratic parabolic systems under controllable growth conditions. Journal of Mathematical Analysis and Applications, 2016, 439, 481-513.	1.0	5
27	Asymptotic stability of stationary solutions to the compressible bipolar Navierâ€“Stokesâ€“Poisson equations. Mathematical Methods in the Applied Sciences, 2017, 40, 4493-4513.	2.3	5
28	The initial value problem for the compressible Navier-Stokes equations without heat conductivity. Journal of Differential Equations, 2020, 268, 5469-5490.	2.2	5
29	Global existence and asymptotic behavior for the 3D compressible magneto-micropolar fluids in a bounded domain. Journal of Mathematical Physics, 2020, 61, .	1.1	5
30	Time periodic solutions to the three--dimensional equations of compressible magnetohydrodynamic flows. Discrete and Continuous Dynamical Systems, 2015, 36, 1847-1868.	0.9	5
31	Behavior of solutions to a Petrovsky equation with damping and variable-exponent sources. Science China Mathematics, 2023, 66, 285-302.	1.7	5
32	On the motion of the 3D compressible micropolar fluids with time periodic external forces. Journal of Mathematical Physics, 2018, 59, 081511.	1.1	4
33	Lipschitz metric for conservative solutions of the modified two-component Camassaâ€“Holm system. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	4
34	Global existence and blowup of solutions to semilinear fractional reaction-diffusion equation with singular potential. Journal of Mathematical Analysis and Applications, 2021, 493, 124548.	1.0	4
35	Global well-posedness for the 3D damped micropolar BÃ©nard system with zero thermal conductivity. Applied Mathematics Letters, 2021, 117, 107103.	2.7	4
36	Pullback exponential attractors for a class of non-Newtonian micropolar fluids. Journal of Mathematical Analysis and Applications, 2021, 503, 125320.	1.0	4

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37	Propagation of density-oscillations in solutions to the compressible Navier-Stokes-Poisson system. Chinese Annals of Mathematics Series B, 2008, 29, 501-520.	0.4	3
38	The method of A-harmonic approximation and boundary regularity for nonlinear elliptic systems under the natural growth condition. Acta Mathematica Sinica, English Series, 2009, 25, 133-156.	0.6	3
39	Existence of three solutions for quasilinear elliptic equations: an Orlicz-Sobolev space setting. Acta Mathematicae Applicatae Sinica, 2017, 33, 287-296.	0.7	3
40	Generic regularity and Lipschitz metric for the Hunterâ€“Saxton type equations. Journal of Differential Equations, 2017, 262, 1023-1063.	2.2	3
41	Uniqueness of conservative solutions to the modified two-component Camassaâ€“Holm system via characteristics. Journal of Mathematical Analysis and Applications, 2018, 461, 1067-1083.	1.0	3
42	Global and exponential attractors for a class of nonâ€Newtonian micropolar fluids. Mathematical Methods in the Applied Sciences, 2021, 44, 10032-10052.	2.3	3
43	Non-Newton Filtration Equation with Nonconstant Medium Void and Critical Sobolev Exponent. Acta Mathematica Sinica, English Series, 2004, 20, 367-378.	0.6	2
44	Global existence of the radially symmetric strong solution to Navier-Stokes-Poisson equations for isentropic compressible fluids. Acta Mathematica Sinica, English Series, 2009, 25, 1703-1720.	0.6	2
45	Asymptotic behaviour of solutions to the Navier-Stokes equations of a two-dimensional compressible flow. Acta Mathematicae Applicatae Sinica, 2011, 27, 697-712.	0.7	2
46	On the outer pressure problem of the one-dimensional compressible Navierâ€“Stokes equation with degenerate transport coefficients. Journal of Mathematical Analysis and Applications, 2017, 449, 553-571.	1.0	2
47	Large-time behaviour of solutions to a class of non-Newtonian compressible fluids. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.8	2
48	The asymptotic behavior of globally smooth solutions to the compressible magnetohydrodynamic equations with Coulomb force. Analysis and Applications, 2017, 15, 571-594.	2.2	2
49	On Integrability Up to the Boundary of the Weak Solutions to a Non-Newtonian Fluid. Acta Mathematica Scientia, 2019, 39, 420-428.	1.0	2
50	Weak-strong uniqueness for the Navierâ€“Stokesâ€“Poisson equations. Applied Mathematics Letters, 2020, 103, 106143.	2.7	2
51	Global well-posedness for the 2D micropolar BÃ©nard fluid system with mixed partial dissipation, angular viscosity and without thermal diffusivity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	1.4	2
52	Concentration phenomena in the semilinear parabolic equation. Science in China Series A: Mathematics, 2001, 44, 40-47.	0.5	1
53	Weak time-periodic solutions to the compressible navier-stokes equations. Acta Mathematica Scientia, 2016, 36, 499-513.	1.0	1
54	Weak solution to the steady compressible flow of nematic liquid crystals. Journal of Mathematical Analysis and Applications, 2017, 448, 1343-1368.	1.0	1

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55	Regularity for the weak solutions to certain parabolic systems under certain growth condition. Journal of Mathematical Analysis and Applications, 2018, 468, 324-343.	1.0	1
56	Partial Regularity of Stationary Navier-Stokes Systems under Natural Growth Condition. Acta Mathematica Scientia, 2019, 39, 94-110.	1.0	1
57	Regularity and energy conservation for compressible isentropic magnetohydrodynamic equations. Mathematical Methods in the Applied Sciences, 2021, 44, 533-545.	2.3	1
58	Stability and large-time behavior of the inviscid Boussinesq system for the micropolar fluid with damping. Journal of Mathematical Physics, 2022, 63, 041509.	1.1	1
59	Gromovâ€“Hausdorff stability of global attractors for 3D Brinkmanâ€“Forchheimer equations. Mathematical Methods in the Applied Sciences, 2022, 45, 11117-11133.	2.3	1
60	Global well-posedness for the 2D micropolar BÃ©nard convection system with mixed partial viscosity. Journal of Mathematical Analysis and Applications, 2022, 516, 126495.	1.0	1
61	Variable Exponent Sobolev Spaces for Semilinear Elliptic Systems. Mediterranean Journal of Mathematics, 2013, 10, 1353-1367.	0.8	0
62	On weak solution to the steady compressible flow of nematic liquid crystals. Mathematical Methods in the Applied Sciences, 2019, 42, 3054-3068.	2.3	0
63	The initial value problem for the compressible magnetohydrodynamic equations without heat conductivity. Journal of Mathematical Analysis and Applications, 2020, 484, 123708.	1.0	0
64	Partial Regularity for Stationary Navier-Stokes Systems by the Method of $$mathcal{A}$$-Harmonic Approximation. Acta Mathematica Scientia, 2020, 40, 835-854.	1.0	0
65	Global solution and global orbit to reactionâ€“diffusion equation for fractional Dirichletâ€toâ€Neumann operator with subcritical exponent. Mathematical Methods in the Applied Sciences, 2021, 44, 1878-1895.	2.3	0
66	Existence of global steady subsonic Euler flows with collision through 2D infinitely long nozzles. Mathematical Methods in the Applied Sciences, 2021, 44, 9453-9474.	2.3	0
67	Inverse Boundary Value Problem for the Magnetohydrodynamics Equations. Journal of Function Spaces, 2021, 2021, 1-10.	0.9	0
68	Dynamical boundary problem for Dirichlet-to-Neumann operator with critical Sobolev exponent and Hardy potential. Nonlinear Analysis: Real World Applications, 2021, 62, 103346.	1.7	0
69	Optimal decay rates of the solution for generalized Poissonâ€“Nernstâ€“Planckâ€“Navierâ€“Stokes equations in $${mathbb {R}}^3$$. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	1.4	0
70	Stability of stationary solutions to the compressible bipolar Euler-Poisson equations. Discrete and Continuous Dynamical Systems, 2017, 37, 4677-4696.	0.9	0