

# Zhong Tan

## List of Publications by Year in descending order

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papers

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687220

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Global existence and convergence rates of smooth solutions for the compressible magnetohydrodynamic equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2010, 72, 4438-4451.	0.6	76
2	On the existence of solutions to the Navier–Stokes–Poisson equations of a two-dimensional compressible flow. <i>Mathematical Methods in the Applied Sciences</i> , 2007, 30, 305-329.	1.2	74
3	Strong solutions to the incompressible magnetohydrodynamic equations. <i>Mathematical Methods in the Applied Sciences</i> , 2011, 34, 94-107.	1.2	57
4	Global weak solution to the flow of liquid crystals system. <i>Mathematical Methods in the Applied Sciences</i> , 2009, 32, 2243-2266.	1.2	50
5	Global solution and large-time behavior of the 3D compressible Euler equations with damping. <i>Journal of Differential Equations</i> , 2013, 254, 1686-1704.	1.1	40
6	Global existence and large-time behavior of weak solutions to the compressible magnetohydrodynamic equations with Coulomb force. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2009, 71, 5866-5884.	0.6	36
7	Global existence and decay estimate of solutions to magneto-micropolar fluid equations. <i>Journal of Differential Equations</i> , 2019, 266, 4137-4169.	1.1	32
8	The method of A-harmonic approximation and optimal interior partial regularity for nonlinear elliptic systems under the controllable growth condition. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 335, 20-42.	0.5	30
9	GLOBAL SOLUTION AND BLOWUP OF SEMILINEAR HEAT EQUATION WITH CRITICAL SOBOLEV EXPONENT. <i>Communications in Partial Differential Equations</i> , 2001, 26, 717-741.	1.0	26
10	Stability of Steady States of the Navier–Stokes–Poisson Equations with Non-Flat Doping Profile. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 179-209.	0.9	26
11	Regularity criteria for the three-dimensional magnetohydrodynamic equations. <i>Journal of Differential Equations</i> , 2014, 256, 2858-2875.	1.1	21
12	A Generalized Poisson–Nernst–Planck–Navier–Stokes Model on the Fluid with the Crowded Charged Particles: Derivation and Its Well-Posedness. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 3191-3235.	0.9	20
13	On hyperbolic-dissipative systems of composite type. <i>Journal of Differential Equations</i> , 2016, 260, 1091-1125.	1.1	15
14	Energy dissipation for weak solutions of incompressible MHD equations. <i>Acta Mathematica Scientia</i> , 2013, 33, 865-871.	0.5	12
15	Time periodic solutions of the compressible magnetohydrodynamic equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2013, 76, 153-164.	0.6	12
16	Well-posedness on a new hydrodynamic model of the fluid with the dilute charged particles. <i>Journal of Differential Equations</i> , 2017, 262, 68-115.	1.1	12
17	Global existence of strong solutions of Navier-Stokes-Poisson equations for one-dimensional isentropic compressible fluids. <i>Chinese Annals of Mathematics Series B</i> , 2008, 29, 441-458.	0.2	11
18	Periodic solutions to the compressible magnetohydrodynamic equations in a periodic domain. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 426, 172-193.	0.5	11

#	ARTICLE	IF	CITATIONS
19	Partial regularity in the interior for discontinuous inhomogeneous elliptic system with VMO-coefficients. <i>Annali Di Matematica Pura Ed Applicata</i> , 2017, 196, 85-105.	0.5	10
20	A class of global large solutions to the magnetohydrodynamic equations with fractional dissipation. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2019, 70, 1.	0.7	10
21	Global existence and optimal decay rate for the strong solutions in $H^2$ the 3-D compressible Navier-Stokes equations without heat conductivity. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 394, 571-580.		
22	Optimal partial regularity for nonlinear sub-elliptic systems. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 387, 166-180.	0.5	8
23	Stability of steady states of the compressible Euler-Poisson system in $H^3$ . <i>Journal of Mathematical Analysis and Applications</i> , 2015, 422, 1058-1071.	0.5	6
24	Optimal partial regularity of second order parabolic systems under controllable growth condition. <i>Journal of Functional Analysis</i> , 2014, 266, 4908-4937.	0.7	5
25	Local 4/5-law and energy dissipation anomaly in turbulence of incompressible MHD Equations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016, 67, 1.	0.7	5
26	Partial regularity for subquadratic parabolic systems under controllable growth conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 439, 481-513.	0.5	5
27	Asymptotic stability of stationary solutions to the compressible bipolar Navier-Stokes-Poisson equations. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 4493-4513.	1.2	5
28	The initial value problem for the compressible Navier-Stokes equations without heat conductivity. <i>Journal of Differential Equations</i> , 2020, 268, 5469-5490.	1.1	5
29	Global existence and asymptotic behavior for the 3D compressible magneto-micropolar fluids in a bounded domain. <i>Journal of Mathematical Physics</i> , 2020, 61, .	0.5	5
30	Time periodic solutions to the three-dimensional equations of compressible magnetohydrodynamic flows. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 36, 1847-1868.	0.5	5
31	Behavior of solutions to a Petrovsky equation with damping and variable-exponent sources. <i>Science China Mathematics</i> , 2023, 66, 285-302.	0.8	5
32	On the motion of the 3D compressible micropolar fluids with time periodic external forces. <i>Journal of Mathematical Physics</i> , 2018, 59, 081511.	0.5	4
33	Lipschitz metric for conservative solutions of the modified two-component Camassa-Holm system. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2018, 69, 1.	0.7	4
34	Global existence and blowup of solutions to semilinear fractional reaction-diffusion equation with singular potential. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 493, 1245-48.	0.5	4
35	Global well-posedness for the 3D damped micropolar Navier-Stokes system with zero thermal conductivity. <i>Applied Mathematics Letters</i> , 2021, 117, 107103.	1.5	4
36	Pullback exponential attractors for a class of non-Newtonian micropolar fluids. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 503, 125320.	0.5	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.	0.2	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.	0.2	3
39	Existence of three solutions for quasilinear elliptic equations: an Orlicz-Sobolev space setting. Acta Mathematicae Applicatae Sinica, 2017, 33, 287-296.	0.4	3
40	Generic regularity and Lipschitz metric for the Hunter-Saxton type equations. Journal of Differential Equations, 2017, 262, 1023-1063.	1.1	3
41	Uniqueness of conservative solutions to the modified two-component Camassa-Holm system via characteristics. Journal of Mathematical Analysis and Applications, 2018, 461, 1067-1083.	0.5	3
42	Global and exponential attractors for a class of non-Newtonian micropolar fluids. Mathematical Methods in the Applied Sciences, 2021, 44, 10032-10052.	1.2	3
43	Non-Newton Filtration Equation with Nonconstant Medium Void and Critical Sobolev Exponent. Acta Mathematica Sinica, English Series, 2004, 20, 367-378.	0.2	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.	0.2	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.	0.4	2
46	On the outer pressure problem of the one-dimensional compressible Navier-Stokes equation with degenerate transport coefficients. Journal of Mathematical Analysis and Applications, 2017, 449, 553-571.	0.5	2
47	Large-time behaviour of solutions to a class of non-Newtonian compressible fluids. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.4	2
48	The asymptotic behavior of globally smooth solutions to the compressible magnetohydrodynamic equations with Coulomb force. Analysis and Applications, 2017, 15, 571-594.	1.2	2
49	On Integrability Up to the Boundary of the Weak Solutions to a Non-Newtonian Fluid. Acta Mathematica Scientia, 2019, 39, 420-428.	0.5	2
50	Weak-strong uniqueness for the Navier-Stokes-Poisson equations. Applied Mathematics Letters, 2020, 103, 106143.	1.5	2
51	Global well-posedness for the 2D micropolar Bagnold fluid system with mixed partial dissipation, angular viscosity and without thermal diffusivity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	0.7	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.	0.5	1
54	Weak solution to the steady compressible flow of nematic liquid crystals. Journal of Mathematical Analysis and Applications, 2017, 448, 1343-1368.	0.5	1

#	ARTICLE	IF	CITATIONS
55	Regularity for the weak solutions to certain parabolic systems under certain growth condition. Journal of Mathematical Analysis and Applications, 2018, 468, 324-343.	0.5	1
56	Partial Regularity of Stationary Navier-Stokes Systems under Natural Growth Condition. Acta Mathematica Scientia, 2019, 39, 94-110.	0.5	1
57	Regularity and energy conservation for compressible isentropic magnetohydrodynamic equations. Mathematical Methods in the Applied Sciences, 2021, 44, 533-545.	1.2	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.	0.5	1
59	Gromov's Hausdorff stability of global attractors for 3D Brinkman-Forchheimer equations. Mathematical Methods in the Applied Sciences, 2022, 45, 11117-11133.	1.2	1
60	Global well-posedness for the 2D micropolar Bénard convection system with mixed partial viscosity. Journal of Mathematical Analysis and Applications, 2022, 516, 126495.	0.5	1
61	Variable Exponent Sobolev Spaces for Semilinear Elliptic Systems. Mediterranean Journal of Mathematics, 2013, 10, 1353-1367.	0.4	0
62	On weak solution to the steady compressible flow of nematic liquid crystals. Mathematical Methods in the Applied Sciences, 2019, 42, 3054-3068.	1.2	0
63	The initial value problem for the compressible magnetohydrodynamic equations without heat conductivity. Journal of Mathematical Analysis and Applications, 2020, 484, 123708.	0.5	0
64	Partial Regularity for Stationary Navier-Stokes Systems by the Method of $\mathcal{A}$ -Harmonic Approximation. Acta Mathematica Scientia, 2020, 40, 835-854.	0.5	0
65	Global solution and global orbit to reaction-diffusion equation for fractional Dirichlet-to-Neumann operator with subcritical exponent. Mathematical Methods in the Applied Sciences, 2021, 44, 1878-1895.	1.2	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.	1.2	0
67	Inverse Boundary Value Problem for the Magnetohydrodynamics Equations. Journal of Function Spaces, 2021, 2021, 1-10.	0.4	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.	0.9	0
69	Optimal decay rates of the solution for generalized Poisson-Nernst-Planck-Navier-Stokes equations in $\mathbb{R}^3$ . Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	0.7	0
70	Stability of stationary solutions to the compressible bipolar Euler-Poisson equations. Discrete and Continuous Dynamical Systems, 2017, 37, 4677-4696.	0.5	0