

Ting Zhang

List of Publications by Year in descending order

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93
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1,884
citations

257450

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289244

40
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94
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docs citations

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times ranked

686
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Entropy Generation and Consequences of Binary Chemical Reaction on MHD Darcy–Forchheimer Williamson Nanofluid Flow Over Non-Linearly Stretching Surface. <i>Entropy</i> , 2020, 22, 18. | 2.2 | 173 |
| 2 | Magnetohydrodynamic Darcy–Forchheimer nanofluid flow over a nonlinear stretching sheet. <i>Physica Scripta</i> , 2019, 94, 105221. | 2.5 | 90 |
| 3 | Existence and Asymptotic Behavior of Global Weak Solutions to a 2D Viscous Liquid-Gas Two-Phase Flow Model. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 1874-1897. | 1.9 | 70 |
| 4 | Large time behavior of isentropic compressible Navier-Stokes system in \mathbb{R}^3 . <i>Mathematical Methods in the Applied Sciences</i> , 2011, 34, 670-682. | 2.3 | 69 |
| 5 | Second grade nanofluidic flow past a convectively heated vertical Riga plate. <i>Physica Scripta</i> , 2019, 94, 125212. | 2.5 | 69 |
| 6 | Darcy-Forchheimer nanofluidic flow manifested with Cattaneo-Christov theory of heat and mass flux over non-linearly stretching surface. <i>PLoS ONE</i> , 2019, 14, e0221302. | 2.5 | 67 |
| 7 | Characteristics of chemical reaction and convective boundary conditions in Powell-Eyring nanofluid flow along a radiative Riga plate. <i>Heliyon</i> , 2019, 5, e01479. | 3.2 | 66 |
| 8 | Global solutions to the 2D viscous, non-resistive MHD system with large background magnetic field. <i>Journal of Differential Equations</i> , 2016, 260, 5450-5480. | 2.2 | 61 |
| 9 | Global Existence of Strong Solution for Equations Related to the Incompressible Viscoelastic Fluids in the Critical L^p Framework. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 2266-2288. | 1.9 | 58 |
| 10 | Global Solution to the Incompressible Oldroyd-B Model in the Critical L^p Framework: the Case of the Non-Small Coupling Parameter. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 213, 651-687. | 2.4 | 54 |
| 11 | Global Behavior of Spherically Symmetric Navier–Stokes–Poisson System with Degenerate Viscosity Coefficients. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 191, 195-243. | 2.4 | 52 |
| 12 | Regularity of 3D axisymmetric Navier-Stokes equations. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 1923-1939. | 0.9 | 52 |
| 13 | Global Behavior of Compressible Navier-Stokes Equations with a Degenerate Viscosity Coefficient. <i>Archive for Rational Mechanics and Analysis</i> , 2006, 182, 223-253. | 2.4 | 51 |
| 14 | Compressible Navier–Stokes equations with vacuum state in the case of general pressure law. <i>Mathematical Methods in the Applied Sciences</i> , 2006, 29, 1081-1106. | 2.3 | 47 |
| 15 | A blow-up criterion for a 2D viscous liquid-gas two-phase flow model. <i>Journal of Differential Equations</i> , 2011, 250, 3362-3378. | 2.2 | 42 |
| 16 | Global solutions of the Navier–Stokes equations for compressible flow with density-dependent viscosity and discontinuous initial data. <i>Journal of Differential Equations</i> , 2006, 222, 63-94. | 2.2 | 41 |
| 17 | Boundary layers for compressible Navier–Stokes equations with density-dependent viscosity and cylindrical symmetry. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2011, 28, 677-709. | 1.4 | 41 |
| 18 | Global Axisymmetric Solutions to Three-Dimensional Navier–Stokes System. <i>International Mathematics Research Notices</i> , 2014, 2014, 610-642. | 1.0 | 40 |

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|----|--|-----|-----------|
| 19 | Influence of Chemical Reaction on Marangoni Convective Flow of Nanoliquid in the Presence of Lorentz Forces and Thermal Radiation: A Numerical Investigation. <i>Journal of Advances in Nanotechnology</i> , 2018, 1, 32-49. | 3.2 | 39 |
| 20 | Compressible Navier-Stokes equations with vacuum state in one dimension. <i>Communications on Pure and Applied Analysis</i> , 2004, 3, 675-694. | 0.8 | 39 |
| 21 | Random Data Cauchy Theory for the Generalized Incompressible Navier–Stokes Equations. <i>Journal of Mathematical Fluid Mechanics</i> , 2012, 14, 311-324. | 1.0 | 38 |
| 22 | Global Small Solutions to a Complex Fluid Model in Three Dimensional. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 216, 905-920. | 2.4 | 38 |
| 23 | Global Wellposed Problem for the 3-D Incompressible Anisotropic Navier-Stokes Equations in an Anisotropic Space. <i>Communications in Mathematical Physics</i> , 2009, 287, 211-224. | 2.2 | 36 |
| 24 | Marangoni Effect in Second Grade Forced Convective Flow of Water Based Nanofluid. <i>Journal of Advances in Nanotechnology</i> , 2018, 1, 50-61. | 3.2 | 35 |
| 25 | Large time behavior of solutions to 3D compressible Navier-Stokes-Poisson system. <i>Science China Mathematics</i> , 2012, 55, 159-177. | 1.7 | 23 |
| 26 | Global solutions of compressible barotropic Navier–Stokes equations with a density-dependent viscosity coefficient. <i>Journal of Mathematical Physics</i> , 2011, 52, . | 1.1 | 22 |
| 27 | Global Solutions to the Isentropic Compressible Navier–Stokes Equations with a Class of Large Initial Data. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 4983-5026. | 1.9 | 22 |
| 28 | Compressible Flows with a Density-Dependent Viscosity Coefficient. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 41, 2453-2488. | 1.9 | 21 |
| 29 | Global classical large solutions to a 1D fluid-particle interaction model: The bubbling regime. <i>Journal of Mathematical Physics</i> , 2012, 53, . | 1.1 | 19 |
| 30 | A note on compressible Navier–Stokes equations with vacuum state in one dimension. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2004, 58, 719-731. | 1.1 | 18 |
| 31 | Decay estimates for isentropic compressible Navier–Stokes equations in bounded domain. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 386, 939-947. | 1.0 | 18 |
| 32 | Relaxation-time limit of the multidimensional bipolar hydrodynamic model in Besov space. <i>Journal of Differential Equations</i> , 2011, 251, 3143-3162. | 2.2 | 16 |
| 33 | GLOBAL EXPONENTIAL STABILITY OF CLASSICAL SOLUTIONS TO THE HYDRODYNAMIC MODEL FOR SEMICONDUCTORS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2007, 17, 1507-1530. | 3.3 | 15 |
| 34 | Global behavior of spherically symmetric Navier–Stokes equations with density-dependent viscosity. <i>Journal of Differential Equations</i> , 2007, 236, 293-341. | 2.2 | 15 |
| 35 | Well-posedness for the 3D incompressible nematic liquid crystal system in the critical L^p framework. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 36, 371-402. | 0.9 | 15 |
| 36 | A blow-up criterion for two dimensional compressible viscous heat-conductive flows. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2012, 75, 3130-3141. | 1.1 | 14 |

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|----|---|-----|-----------|
| 37 | Random data Cauchy theory for the incompressible three dimensional Navier-Stokes equations. Proceedings of the American Mathematical Society, 2011, 139, 2827-2837. | 0.8 | 13 |
| 38 | Global solutions to the 3D incompressible nematic liquid crystal system. Journal of Differential Equations, 2015, 258, 1519-1547. | 2.2 | 13 |
| 39 | Discontinuous solutions of the compressible Navier-Stokes equations with degenerate viscosity coefficient and vacuum. Journal of Mathematical Analysis and Applications, 2006, 318, 224-245. | 1.0 | 12 |
| 40 | Global Axisymmetric Solutions of Three Dimensional Inhomogeneous Incompressible Navier-Stokes System with Nonzero Swirl. Archive for Rational Mechanics and Analysis, 2017, 223, 817-843. | 2.4 | 12 |
| 41 | Almost global existence for 2D magnetohydrodynamics boundary layer system. Mathematical Methods in the Applied Sciences, 2018, 41, 7530-7553. | 2.3 | 12 |
| 42 | A vacuum problem for multidimensional compressible Navier-Stokes equations with degenerate viscosity coefficients. Communications on Pure and Applied Analysis, 2008, 7, 987-1016. | 0.8 | 12 |
| 43 | Global wellposed problem for the 3-D incompressible anisotropic Navier-Stokes equations. Journal Des Mathematiques Pures Et Appliquees, 2008, 90, 413-449. | 1.6 | 11 |
| 44 | Global well-posedness for the dissipative system modeling electro-hydrodynamics with large vertical velocity component in critical Besov space. Discrete and Continuous Dynamical Systems, 2015, 35, 555-582. | 0.9 | 11 |
| 45 | Global well-posedness to the 3-D incompressible inhomogeneous Navier-Stokes equations with a class of large velocity. Journal of Mathematical Physics, 2015, 56, . | 1.1 | 10 |
| 46 | Global solutions of 3D axisymmetric Boussinesq equations with nonzero swirl. Nonlinear Analysis: Theory, Methods & Applications, 2018, 166, 48-86. | 1.1 | 10 |
| 47 | Zero-electron-mass limit of Euler-Poisson equations. Discrete and Continuous Dynamical Systems, 2013, 33, 4743-4768. | 0.9 | 10 |
| 48 | Regularity of the Koch-Tataru solutions to Navier-Stokes system. Science China Mathematics, 2012, 55, 453-464. | 1.7 | 9 |
| 49 | Global existence and uniqueness theorem to 2-D incompressible non-resistive MHD system with non-equilibrium background magnetic field. Journal of Differential Equations, 2016, 261, 3519-3550. | 2.2 | 9 |
| 50 | Global well-posedness for 2D Boussinesq system with general supercritical dissipation. Nonlinear Analysis: Real World Applications, 2016, 27, 326-349. | 1.7 | 8 |
| 51 | Global Behavior of Spherically Symmetric Navier-Stokes Equations with Degenerate Viscosity Coefficients. SIAM Journal on Mathematical Analysis, 2008, 40, 869-904. | 1.9 | 7 |
| 52 | Global strong solutions for equations related to the incompressible viscoelastic fluids with a class of large initial data. Nonlinear Analysis: Theory, Methods & Applications, 2014, 100, 59-77. | 1.1 | 7 |
| 53 | A note on spherically symmetric isentropic compressible flows with density-dependent viscosity coefficients. Nonlinear Analysis: Real World Applications, 2009, 10, 2272-2285. | 1.7 | 6 |
| 54 | Global regularity for generalized anisotropic Navier-Stokes equations. Journal of Mathematical Physics, 2010, 51, 123503. | 1.1 | 6 |

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|----|---|-----|-----------|
| 55 | Local well-posedness for 2D incompressible magneto-micropolar boundary layer system. <i>Applicable Analysis</i> , 2021, 100, 206-227. | 1.3 | 6 |
| 56 | Bilinear Strichartz's type estimates in Besov spaces with application to inhomogeneous nonlinear biharmonic Schrödinger equation. <i>Journal of Differential Equations</i> , 2021, 296, 335-368. | 2.2 | 6 |
| 57 | On the well-posedness for stochastic Schrödinger equations with quadratic potential. <i>Chinese Annals of Mathematics Series B</i> , 2011, 32, 711-728. | 0.4 | 5 |
| 58 | Almost Global Existence for the 3D Prandtl Boundary Layer Equations. <i>Acta Applicandae Mathematicae</i> , 2020, 169, 383-410. | 1.0 | 5 |
| 59 | Global weak solutions to a 2D compressible non-resistivity MHD system with non-monotone pressure law and nonconstant viscosity. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 502, 125244. | 1.0 | 5 |
| 60 | Remarks on local regularity of axisymmetric solutions to the 3D Navier-Stokes equations. <i>Communications in Partial Differential Equations</i> , 2022, 47, 1680-1699. | 2.2 | 5 |
| 61 | Global Existence in Critical Spaces for Density-Dependent Incompressible Viscoelastic Fluids. <i>Acta Applicandae Mathematicae</i> , 2014, 130, 51-80. | 1.0 | 4 |
| 62 | The global solutions of axisymmetric Navier-Stokes equations with anisotropic initial data. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2019, 70, 1. | 1.4 | 4 |
| 63 | Local and global existence of pathwise solution for the stochastic Boussinesq equations with multiplicative noises. <i>Stochastic Processes and Their Applications</i> , 2020, 130, 1545-1567. | 0.9 | 4 |
| 64 | Sliding method for the semi-linear elliptic equations involving the uniformly elliptic nonlocal operators. <i>Discrete and Continuous Dynamical Systems</i> , 2021, 41, 2285-2300. | 0.9 | 4 |
| 65 | H^2 blowup result for a Schrödinger equation with nonlinear source term. <i>Electronic Research Archive</i> , 2020, 28, 777-794. | 0.9 | 4 |
| 66 | Analytical solutions to the Navier-Stokes equations for non-Newtonian fluid. <i>Applied Mathematics</i> , 2009, 24, 483-489. | 1.0 | 3 |
| 67 | Density-dependent incompressible viscous fluid flow subject to linearly growing initial data. <i>Applicable Analysis</i> , 2012, 91, 1477-1493. | 1.3 | 3 |
| 68 | Wellposedness for anisotropic rotating fluid equations. <i>Applied Mathematics</i> , 2012, 27, 9-33. | 1.0 | 3 |
| 69 | Almost sure existence of global weak solutions for incompressible MHD equations in negative-order Sobolev space. <i>Journal of Differential Equations</i> , 2017, 263, 1611-1642. | 2.2 | 3 |
| 70 | Local and global strong solutions to the stochastic incompressible Navier-Stokes equations in critical Besov space. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 481, 123472. | 1.0 | 3 |
| 71 | Local well-posedness of perturbed Navier-Stokes system around Landau solutions. <i>Electronic Research Archive</i> , 2021, 29, 2719-2739. | 0.9 | 3 |
| 72 | The Cauchy problem for the fourth-order Schrödinger equation in H^s . <i>Journal of Mathematical Physics</i> , 2021, 62, 071501. | 1.1 | 3 |

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|----|---|-----|-----------|
| 73 | Critical regularity criteria for Navier–Stokes equations in terms of one directional derivative of the velocity. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 5123-5132. | 2.3 | 3 |
| 74 | Dispersive effects of the incompressible viscoelastic fluids. <i>Discrete and Continuous Dynamical Systems</i> , 2018, 38, 5261-5295. | 0.9 | 3 |
| 75 | Global well-posedness result for density-dependent incompressible viscous fluid in with linearly growing initial velocity. <i>Mathematical Methods in the Applied Sciences</i> , 2013, 36, 921-935. | 2.3 | 2 |
| 76 | The 2D regularized incompressible Boussinesq equations with general critical dissipations. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 461, 868-915. | 1.0 | 2 |
| 77 | Global Solutions of Modified One-Dimensional Schrödinger Equation. <i>Communications in Mathematical Research</i> , 2021, 37, 350-386. | 0.5 | 2 |
| 78 | Free boundary problem for compressible flows with density-dependent viscosity coefficients. <i>Communications on Pure and Applied Analysis</i> , 2010, 10, 459-478. | 0.8 | 2 |
| 79 | On weak (measure-valued)-strong uniqueness for compressible MHD system with non-monotone pressure law. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 6063. | 0.9 | 2 |
| 80 | Serrin-type regularity criteria for the 3D MHD equations via one velocity component and one magnetic component. <i>Calculus of Variations and Partial Differential Equations</i> , 2022, 61, 1. | 1.7 | 2 |
| 81 | Remark on compressible Navier–Stokes equations with density-dependent viscosity and discontinuous initial data. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 339, 1413-1424. | 1.0 | 1 |
| 82 | On the well-posedness for stochastic fourth-order Schrödinger equations. <i>Applied Mathematics</i> , 2011, 26, 307-318. | 1.0 | 1 |
| 83 | Bifurcations of solutions for the Boussinesq system in. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 314-328. | 1.7 | 1 |
| 84 | A random dispersion Schrödinger equation with time-oscillating nonlinearity. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 418, 403-414. | 1.0 | 1 |
| 85 | Global existence of discretely self-similar solutions to the generalized MHD system in Besov space. <i>Journal of Mathematical Physics</i> , 2019, 60, 081515. | 1.1 | 1 |
| 86 | Local well-posedness and finite time blowup for fourth-order Schrödinger equation with complex coefficient. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, . | 0.9 | 1 |
| 87 | Local and global strong solution to the stochastic 3-D incompressible anisotropic Navier-Stokes equations. <i>Discrete and Continuous Dynamical Systems</i> , 2018, 38, 4745-4765. | 0.9 | 1 |
| 88 | The pointwise estimates of solutions for the 3D incompressible viscoelastic fluids. <i>Scientia Sinica Mathematica</i> , 2021, 51, 881. | 0.2 | 1 |
| 89 | Non-formation of vacuum states for Navier-Stokes equations with density-dependent viscosity. <i>Journal of Zhejiang University: Science A</i> , 2007, 8, 1681-1690. | 2.4 | 0 |
| 90 | Global solutions for H^s -critical nonlinear biharmonic Schrödinger equation. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2021, 72, 1. | 1.4 | 0 |

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|----|---|-----|-----------|
| 91 | Convergence of Parareal Algorithms for PDEs with Fractional Laplacian and a Non-Constant Coefficient. East Asian Journal on Applied Mathematics, 2018, 8, 746-763. | 0.9 | 0 |
| 92 | The Global Existence and Averaging Theorem for the Strong Solution of the Stochastic Boussinesq Equations with the Low Froude Number. Journal of Mathematical Fluid Mechanics, 2022, 24, 1. | 1.0 | 0 |
| 93 | A new improved regularity criterion of solutions to Leray- α -MHD model and Navier-Stokes equation. Proceedings of the American Mathematical Society, 0, , . | 0.8 | 0 |