

# Shengguo Zhu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Singularity Formation for the Compressible Euler Equations. SIAM Journal on Mathematical Analysis, 2017, 49, 2591-2614.	1.9	40
2	On Classical Solutions to 2D Shallow Water Equations with Degenerate Viscosities. Journal of Mathematical Fluid Mechanics, 2017, 19, 151-190.	1.0	25
3	On Classical Solutions for Viscous Polytropic Fluids with Degenerate Viscosities and Vacuum. Archive for Rational Mechanics and Analysis, 2019, 234, 1281-1334.	2.4	25
4	Formation of singularities in solutions to the compressible radiation hydrodynamics equations with vacuum. Journal of Differential Equations, 2014, 256, 3943-3980.	2.2	18
5	Existence results for viscous polytropic fluids with degenerate viscosity coefficients and vacuum. Journal of Differential Equations, 2015, 259, 84-119.	2.2	16
6	Recent progress on classical solutions for compressible isentropic Navier-Stokes equations with degenerate viscosities and vacuum. Bulletin of the Brazilian Mathematical Society, 2016, 47, 507-519.	0.8	15
7	Vanishing viscosity limit of the Navier-Stokes equations to the Euler equations for compressible fluid flow with far field vacuum. Journal Des Mathematiques Pures Et Appliquees, 2017, 107, 288-314.	1.6	15
8	Vanishing Viscosity Limit of the Navier-Stokes Equations to the Euler Equations for Compressible Fluid Flow with Vacuum. Archive for Rational Mechanics and Analysis, 2019, 234, 727-775.	2.4	14
9	On regular solutions of the 3D compressible isentropic Euler-Boltzmann equations with vacuum. Discrete and Continuous Dynamical Systems, 2015, 35, 3059-3086.	0.9	14
10	Well-posedness of the three-dimensional isentropic compressible Navier-Stokes equations with degenerate viscosities and far field vacuum. Journal Des Mathematiques Pures Et Appliquees, 2021, 152, 94-144.	1.6	11
11	Global well-posedness of regular solutions to the three-dimensional isentropic compressible Navier-Stokes equations with degenerate viscosities and vacuum. Advances in Mathematics, 2021, 393, 108072.	1.1	8
12	Existence Results and Blow-Up Criterion of Compressible Radiation Hydrodynamic Equations. Journal of Dynamics and Differential Equations, 2017, 29, 549-595.	1.9	6
13	Existence results for compressible radiation hydrodynamic equations with vacuum. Communications on Pure and Applied Analysis, 2015, 14, 1023-1052.	0.8	6
14	Formation of Singularities and Existence of Global Continuous Solutions for the Compressible Euler Equations. SIAM Journal on Mathematical Analysis, 2021, 53, 6280-6325.	1.9	6
15	Blow-up criterion for the 3D compressible non-isentropic Navier-Stokes equations without thermal conductivity. Journal of Mathematical Analysis and Applications, 2015, 431, 822-840.	1.0	5
16	Blow-up criterion for the compressible magnetohydrodynamic equations with vacuum. Journal of Mathematical Analysis and Applications, 2015, 425, 928-953.	1.0	4
17	Formation of singularities for the relativistic Euler equations. Journal of Differential Equations, 2021, 284, 284-317.	2.2	4
18	No BV bounds for approximate solutions to p-system with general pressure law. Journal of Hyperbolic Differential Equations, 2015, 12, 799-816.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Blow-Up Criterion for the 3D Non-resistive Compressible Magnetohydrodynamic Equations. Journal of Dynamics and Differential Equations, 2020, 32, 769-790.	1.9	3
20	A polygonal scheme and the lower bound on density for the isentropic gas dynamics. Discrete and Continuous Dynamical Systems, 2019, 39, 4259-4277.	0.9	3
21	Blow-up of classical solutions to the compressible magnetohydrodynamic equations with vacuum. Acta Mathematica Scientia, 2016, 36, 220-232.	1.0	1
22	On the Breakdown of Regular Solutions with Finite Energy for 3D Degenerate Compressible Navier–Stokes Equations. Journal of Mathematical Fluid Mechanics, 2021, 23, 1.	1.0	0
23	Singularity Formation for the Multi-dimensional Compressible Degenerate Navier–Stokes Equations. Journal of Dynamics and Differential Equations, 0, , 1.	1.9	0
24	Global mild solutions to three-dimensional magnetohydrodynamic equations in Morrey spaces. Journal of Differential Equations, 2022, 314, 752-807.	2.2	0