Geng Chen

List of Publications by Year
in descending order

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32	367	840776 11	839539 18
papers	citations	h-index	g-index

32	32	32	93
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uniqueness of conservative solutions to the Camassa-Holm equation via characteristics. Discrete and Continuous Dynamical Systems, 2015, 35, 25-42.	0.9	50
2	Singularity Formation for the Compressible Euler Equations. SIAM Journal on Mathematical Analysis, 2017, 49, 2591-2614.	1.9	40
3	Unique Conservative Solutions to a Variational Wave Equation. Archive for Rational Mechanics and Analysis, 2015, 217, 1069-1101.	2.4	28
4	Generic regularity of conservative solutions to a nonlinear wave equation. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 335-354.	1.4	24
5	FORMATION OF SINGULARITY AND SMOOTH WAVE PROPAGATION FOR THE NON-ISENTROPIC COMPRESSIBLE EULER EQUATIONS. Journal of Hyperbolic Differential Equations, 2011, 08, 671-690.	0.5	21
6	SHOCK FORMATION IN THE COMPRESSIBLE EULER EQUATIONS AND RELATED SYSTEMS. Journal of Hyperbolic Differential Equations, 2013, 10, 149-172.	0.5	20
7	Lipschitz Metrics for a Class of Nonlinear Wave Equations. Archive for Rational Mechanics and Analysis, 2017, 226, 1303-1343.	2.4	17
8	Existence and uniqueness of the global conservative weak solutions for the integrable Novikov equation. Indiana University Mathematics Journal, 2018, 67, 2393-2433.	0.9	17
9	Energy conservative solutions to a nonlinear wave system of nematic liquid crystals. Communications on Pure and Applied Analysis, 2013, 12, 1445-1468.	0.8	16
10	Smooth solutions and singularity formation for the inhomogeneous nonlinear wave equation. Journal of Differential Equations, 2012, 252, 2580-2595.	2.2	14
11	Lipschitz Metric for the Novikov Equation. Archive for Rational Mechanics and Analysis, 2018, 229, 1091-1137.	2.4	13
12	Singularity and existence for a wave system of nematic liquid crystals. Journal of Mathematical Analysis and Applications, 2013, 398, 170-188.	1.0	11
13	Shock-Free Solutions of the Compressible Euler Equations. Archive for Rational Mechanics and Analysis, 2015, 217, 1265-1293.	2.4	11
14	Poiseuille Flow of Nematic Liquid Crystals via the Full Ericksenâ€“Leslie Model. Archive for Rational Mechanics and Analysis, 2020, 236, 839-891.	2.4	10
15	Optimal time-dependent lower bound on density for classical solutions of 1-D compressible Euler equations. Indiana University Mathematics Journal, 2017, 66, 725-740.	0.9	9
16	Uniqueness and regularity of conservative solution to a wave system modeling nematic liquid crystal. Journal Des Mathematiques Pures Et Appliquees, 2018, 117, 185-220.	1.6	9
17	Finite Time Singularities for Hyperbolic Systems. SIAM Journal on Mathematical Analysis, 2015, 47, 758-785.	1.9	7
18	Lack of BV bounds for approximate solutions to the p -system with large data. Journal of Differential Equations, 2014, 256, 3067-3085.	2.2	6

#	Article	IF	Citations
19	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
20	Lipschitz metric for conservative solutions of the two-component Camassaâ€“Holm system. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, 1.	1.4	5
21	Existence and regularity of solutions in nonlinear wave equations. Discrete and Continuous Dynamical Systems, 2015, 35, 3327-3342.	0.9	5
22	Pairwise Wave Interactions in Ideal Polytropic Gases. Archive for Rational Mechanics and Analysis, 2012, 204, 787-836.	2.4	4
23	No TVD Fields for 1-D Isentropic Gas Flow. Communications in Partial Differential Equations, 2013, 38, 629-657.	2.2	4
24	On finite time BV blow-up for the p-system. Communications in Partial Differential Equations, 2018, 43, 1242-1280.	2.2	4
25	Optimal density lower bound on nonisentropic gas dynamics. Journal of Differential Equations, 2020, 268, 4017-4028.	2.2	4
26	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
27	Generic regularity and Lipschitz metric for the Hunterâ€“Saxton type equations. Journal of Differential Equations, 2017, 262, 1023-1063.	2.2	3
28	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
29	Uniqueness of dissipative solution for Camassaâ€“Holm equation with peakonâ€“antipeakon initial data. Applied Mathematics Letters, 2021, 120, 107268.	2.7	2
30	Uniqueness of conservative solutions to a one-dimensional general quasilinear wave equation through variational principle. Journal of Mathematical Physics, 2022, 63, 021508.	1.1	1
31	The Vacuum in Nonisentropic Gas Dynamics. Acta Mathematica Scientia, 2012, 32, 339-351.	1.0	0
32	Singularity Formation for the General Poiseuille Flow of Nematic Liquid Crystals. Communications on Applied Mathematics and Computation, 2023, 5, 1130-1147.	1.7	0