

Hanchun Yang

List of Publications by Year in descending order

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39
papers

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516710

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39
all docs

39
docs citations

39
times ranked

107
citing authors

#	ARTICLE	IF	CITATIONS
1	Riemann Problems for a Class of Coupled Hyperbolic Systems of Conservation Laws. Journal of Differential Equations, 1999, 159, 447-484.	2.2	128
2	New developments of delta shock waves and its applications in systems of conservation laws. Journal of Differential Equations, 2012, 252, 5951-5993.	2.2	122
3	Delta-shocks and vacuum states in the vanishing pressure limit of solutions to the isentropic Euler equations for modified Chaplygin gas. Journal of Mathematical Analysis and Applications, 2014, 413, 800-820.	1.0	66
4	Delta shock waves with Dirac delta function in both components for systems of conservation laws. Journal of Differential Equations, 2014, 257, 4369-4402.	2.2	52
5	Delta-shocks as limits of vanishing viscosity for multidimensional zero-pressure gas dynamics. Quarterly of Applied Mathematics, 2001, 59, 315-342.	0.7	48
6	Delta-shocks and vacuums in zero-pressure gas dynamics by the flux approximation. Science China Mathematics, 2015, 58, 2329-2346.	1.7	46
7	Delta shock waves in chromatography equations. Journal of Mathematical Analysis and Applications, 2011, 380, 475-485.	1.0	39
8	Riemann problem for the relativistic Chaplygin Euler equations. Journal of Mathematical Analysis and Applications, 2011, 381, 17-26.	1.0	38
9	Concentration in vanishing pressure limit of solutions to the modified Chaplygin gas equations. Journal of Mathematical Physics, 2016, 57, .	1.1	35
10	The Riemann problem with delta initial data for a class of coupled hyperbolic systems of conservation laws. Nonlinear Analysis: Theory, Methods & Applications, 2007, 67, 3041-3049.	1.1	34
11	Generalized Plane Delta-Shock Waves for n-Dimensional Zero-Pressure Gas Dynamics. Journal of Mathematical Analysis and Applications, 2001, 260, 18-35.	1.0	31
12	Riemann problem for the isentropic relativistic Chaplygin Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 429-440.	1.4	26
13	Flux approximation to the isentropic relativistic Euler equations. Nonlinear Analysis: Theory, Methods & Applications, 2016, 133, 200-227.	1.1	25
14	Flux-approximation limits of solutions to the relativistic Euler equations for polytropic gas. Journal of Mathematical Analysis and Applications, 2016, 435, 1160-1182.	1.0	25
15	Approaching Chaplygin pressure limit of solutions to the Awâ€™s Raschle model. Journal of Mathematical Analysis and Applications, 2014, 416, 839-854.	1.0	24
16	Two-dimensional Riemann problems for zero-pressure gas dynamics with three constant states. Journal of Mathematical Analysis and Applications, 2008, 343, 127-140.	1.0	21
17	Pressure and flux-approximation to the isentropic relativistic Euler equations for modified Chaplygin gas. Journal of Mathematical Physics, 2019, 60, .	1.1	15
18	Concentration and cavitation in the Euler equations for nonisentropic fluids with the flux approximation. Nonlinear Analysis: Theory, Methods & Applications, 2015, 123-124, 158-177.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Riemann Problem for the Aw-Rascle Model of Traffic Flow with General Pressure. Bulletin of the Malaysian Mathematical Sciences Society, 2020, 43, 3757-3775.	0.9	12
20	Vanishing pressure and magnetic field limit of solutions to the nonisentropic magnetogasdynamics. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 1472-1492.	1.6	11
21	Biharmonic maps from a 2-sphere. Journal of Geometry and Physics, 2014, 77, 86-96.	1.4	10
22	On two-dimensional gas expansion for pressure-gradient equations of Euler system. Journal of Mathematical Analysis and Applications, 2004, 298, 523-537.	1.0	9
23	Delta Shock Waves as Limits of Vanishing Viscosity for 2-D Steady Pressureless Isentropic Flow. Acta Applicandae Mathematicae, 2011, 113, 323-348.	1.0	9
24	Interactions between two rarefaction waves for the pressure-gradient equations in the gas dynamics. Applied Mathematics and Computation, 2008, 199, 231-241.	2.2	7
25	Two-dimensional Riemann problem for a hyperbolic system of conservation laws in three pieces. Applied Mathematics and Computation, 2012, 219, 1695-1711.	2.2	7
26	On a Nonsymmetric Keyfitz-Kranzer System of Conservation Laws with Generalized and Modified Chaplygin Gas Pressure Law. Advances in Mathematical Physics, 2013, 2013, 1-14.	0.8	7
27	Limits of Solutions to the Relativistic Euler Equations for Modified Chaplygin Gas by Flux Approximation. Acta Applicandae Mathematicae, 2020, 169, 1-32.	1.0	7
28	Two-dimensional Riemann problem involving three contact discontinuities for a hyperbolic system of nonlinear conservation laws. Applied Mathematics and Computation, 2013, 219, 4614-4624.	2.2	6
29	Riemann problem for a geometrical optics system. Acta Mathematica Sinica, English Series, 2014, 30, 1846-1860.	0.6	6
30	Two-dimensional Riemann problem involving three contact discontinuities for 2×2 hyperbolic conservation laws in anisotropic media. Journal of Mathematical Analysis and Applications, 2015, 428, 77-97.	1.0	4
31	Delta Shock Waves as Flux-Approximation Limit of Solutions to the Modified Chaplygin Gas Equations. Acta Applicandae Mathematicae, 2020, 168, 75-107.	1.0	4
32	Vanishing flux perturbation, pressure, and magnetic field limit in a Chaplygin magnetogasdynamics. Journal of Mathematical Physics, 2022, 63, .	1.1	4
33	Pressureless Magnetohydrodynamics System: Riemann Problem and Vanishing Magnetic Field Limit. Advances in Mathematical Physics, 2020, 2020, 1-13.	0.8	2
34	The Perturbed Riemann Problem for a Geometrical Optics System. Communications on Applied Mathematics and Computation, 2023, 5, 1148-1179.	1.7	2
35	Biharmonic Maps from Tori into a 2-Sphere. Chinese Annals of Mathematics Series B, 2018, 39, 861-878.	0.4	1
36	Riemann problem for the 2D scalar conservation law involving linear fluxes with discontinuous coefficients. Journal of Mathematical Physics, 2020, 61, 111504.	1.1	1

#	ARTICLE	IF	CITATIONS
37	On a three-dimensional chemotaxis-Stokes system with nonlinear sensitivity modeling coral fertilization. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2023, 103, .	1.6	1
38	Delta-shocks and vacuums as limits of flux approximation for the pressureless type system. Turkish Journal of Mathematics, 2018, 42, 2735-2751.	0.7	0
39	On a Two-Dimensional Riemann Problem for Hyperbolic System of Nonlinear Conservation Laws. Acta Applicandae Mathematicae, 2021, 175, 1.	1.0	0