

Wei Xiang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Global Steady Subsonic Flows through Infinitely Long Nozzles for the Full Euler Equations. SIAM Journal on Mathematical Analysis, 2012, 44, 2888-2919.	1.9	49
2	Shock Diffraction by Convex Cornered Wedges for the Nonlinear Wave System. Archive for Rational Mechanics and Analysis, 2014, 211, 61-112.	2.4	28
3	Steady Euler flows with large vorticity and characteristic discontinuities in arbitrary infinitely long nozzles. Advances in Mathematics, 2019, 346, 946-1008.	1.1	27
4	Three-Dimensional Full Euler Flows with Nontrivial Swirl in Axisymmetric Nozzles. SIAM Journal on Mathematical Analysis, 2018, 50, 2740-2772.	1.9	17
5	Incompressible R�thy Flows in Two Dimensions. SIAM Journal on Mathematical Analysis, 2017, 49, 3427-3475.	1.9	16
6	Incompressible Jet Flows in a de Laval Nozzle with Smooth Detachment. Archive for Rational Mechanics and Analysis, 2019, 232, 1031-1072.	2.4	16
7	Asymptotic stability of a composite wave of two viscous shock waves for the one-dimensional radiative Euler equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2019, 36, 1-25.	1.4	14
8	The uniqueness of transonic shocks in supersonic flow past a 2-D wedge. Journal of Mathematical Analysis and Applications, 2016, 437, 194-213.	1.0	13
9	Incompressible limit of solutions of multidimensional steady compressible Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	12
10	Three-Dimensional Steady Supersonic Euler Flow Past a Concave Cornered Wedge with Lower Pressure at the Downstream. Archive for Rational Mechanics and Analysis, 2018, 228, 431-476.	2.4	12
11	Stability of supersonic contact discontinuity for two-dimensional steady compressible Euler flows in a finite nozzle. Journal of Differential Equations, 2019, 266, 4337-4376.	2.2	12
12	Convexity of Self-Similar Transonic Shocks and Free Boundaries for the Euler Equations for Potential Flow. Archive for Rational Mechanics and Analysis, 2020, 238, 47-124.	2.4	12
13	Compressible subsonic jet flows issuing from a nozzle of arbitrary cross-section. Journal of Differential Equations, 2019, 266, 5318-5359.	2.2	11
14	Two-dimensional steady supersonic exothermically reacting Euler flows with strong contact discontinuity over a Lipschitz wall. Interfaces and Free Boundaries, 2018, 20, 437-481.	0.8	8
15	Steady incompressible axially symmetric R�thy flows. Nonlinearity, 2020, 33, 4627-4669.	1.4	8
16	Asymptotic Stability of Rarefaction Wave for the Inflow Problem Governed by the One-Dimensional Radiative Euler Equations. SIAM Journal on Mathematical Analysis, 2019, 51, 595-625.	1.9	7
17	Global structure of admissible solutions of multi-dimensional non-homogeneous scalar conservation law with Riemann-type data. Journal of Differential Equations, 2017, 263, 1055-1078.	2.2	6
18	Loss of Regularity of Solutions of the Lighthill Problem for Shock Diffraction for Potential Flow. SIAM Journal on Mathematical Analysis, 2020, 52, 1096-1114.	1.9	6

#	ARTICLE	IF	CITATIONS
19	Weakly Nonlinear Geometric Optics for Hyperbolic Systems of Conservation Laws. Communications in Partial Differential Equations, 2013, 38, 1936-1970.	2.2	5
20	Stability of Attached Transonic Shocks in Steady Potential Flow past Three-Dimensional Wedges. Communications in Mathematical Physics, 2021, 387, 111-138.	2.2	5
21	Global Instability of Multi-Dimensional Plane Shocks for Isothermal Flow. Acta Mathematica Scientia, 2022, 42, 887-902.	1.0	4
22	Two-phase fluids in collision of incompressible inviscid fluids effluxing from two nozzles. Journal of Differential Equations, 2019, 267, 6783-6830.	2.2	3
23	Existence and Stability of Global Solutions of Shock Diffraction by Wedges for Potential Flow. Springer Proceedings in Mathematics and Statistics, 2014, , 113-142.	0.2	3
24	Persistence of the Steady Normal Shock Structure for the Unsteady Potential Flow. SIAM Journal on Mathematical Analysis, 2020, 52, 6033-6104.	1.9	3
25	Hypersonic similarity for the two dimensional steady potential flow with large data. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2020, 37, 1379-1423.	1.4	2
26	Stability of Transonic Contact Discontinuity for Two-Dimensional Steady Compressible Euler Flows in a Finitely Long Nozzle. Annals of PDE, 2021, 7, 1.	1.8	2
27	Regularity of solutions to time-harmonic Maxwell's system with various lower than Lipschitz coefficients. Nonlinear Analysis: Theory, Methods & Applications, 2020, 192, 111693.	1.1	1
28	Low Mach number limit of multidimensional steady flows on the airfoil problem. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	1.7	1
29	Global solutions of shock reflection by wedges for the nonlinear wave equation. Chinese Annals of Mathematics Series B, 2011, 32, 643-668.	0.4	0