Gui-Qiang G Chen

List of Publications by Year
in descending order

175 papers	5,819 citations	66336 42 h-index	85537 71 g-index
187 all docs	187 docs citations	187 times ranked	1083 citing authors

#	Article	IF	Citations
1	Global Solutions of the Compressible Euler Equations with Large Initial Data of Spherical Symmetry and Positive Far-Field Density. Archive for Rational Mechanics and Analysis, 2022, 243, 1699-1771.	2.4	4
2	Multidimensional transonic shock waves and free boundary problems. Bulletin of Mathematical Sciences, 2022, 12, .	0.7	2
3	On asymptotic rigidity and continuity problems in nonlinear elasticity on manifolds and hypersurfaces. Journal Des Mathematiques Pures Et Appliquees, 2022, 160, 29-53.	1.6	0
4	Global Entropy Solutions and Newtonian Limit for the Relativistic Euler Equations. Annals of PDE, 2022, 8, 1.	1.8	0
5	Global solutions of a two-dimensional Riemann problem for the pressure gradient system. Communications on Pure and Applied Analysis, 2021, 20, 2475.	0.8	1
6	Stability of Conical Shocks in the Three-Dimensional Steady Supersonic Isothermal Flows Past Lipschitz Perturbed Cones. SIAM Journal on Mathematical Analysis, 2021, 53, 2811-2862.	1.9	6
7	Weak Continuity of the Cartan Structural System and Compensated Compactness on Semi-Riemannian Manifolds with Lower Regularity. Archive for Rational Mechanics and Analysis, 2021, 241, 579-641.	2.4	2
8	Nonlinear anisotropic degenerate parabolic-hyperbolic equations with stochastic forcing. Journal of Functional Analysis, 2021, 281, 109222.	1.4	4
9	Stability of Attached Transonic Shocks in Steady Potential Flow past Three-Dimensional Wedges. Communications in Mathematical Physics, 2021, 387, 111-138.	2.2	5
10	Maximum entropy production as a necessary admissibility condition for the fluid Navier–Stokes and Euler equations. SN Applied Sciences, 2020, 2, 1.	2.9	4
11	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
12	Stability of Multidimensional Thermoelastic Contact Discontinuities. Archive for Rational Mechanics and Analysis, 2020, 237, 1271-1323.	2.4	8
13	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
14	Traces and extensions of bounded divergence-measure fields on rough open sets. Indiana University Mathematics Journal, 2020, 69, 229-264.	0.9	3
15	Kolmogorov-type theory of compressible turbulence and inviscid limit of the Navier–Stokes equations in $\mathbb{R}^3$. Physica D: Nonlinear Phenomena, 2019, 400, 132138.	2.8	15
16	Steady Euler flows with large vorticity and characteristic discontinuities in arbitrary infinitely long nozzles. Advances in Mathematics, 2019, 346, 946-1008.	1.1	27
17	Cauchy Fluxes and Gauss–Green Formulas for Divergence-Measure Fields Over General Open Sets. Archive for Rational Mechanics and Analysis, 2019, 233, 87-166.	2.4	12
18	Invariant Measures for Nonlinear Conservation Laws Driven by Stochastic Forcing. Chinese Annals of Mathematics Series B, 2019, 40, 967-1004.	0.4	10

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19	Nonlinear Stability of Relativistic Vortex Sheets in Three-Dimensional Minkowski Spacetime. Archive for Rational Mechanics and Analysis, 2019, 232, 591-695.	2.4	13
20	Stability and asymptotic behavior of transonic flows past wedges for the full Euler equations. Interfaces and Free Boundaries, 2018, 19, 591-626.	0.8	6
21	Global Weak Rigidity of the Gauss–Codazzi–Ricci Equations and Isometric Immersions of Riemannian Manifolds with Lower Regularity. Journal of Geometric Analysis, 2018, 28, 1957-2007.	1.0	9
22	Vanishing Viscosity Approach to the Compressible Euler Equations for Transonic Nozzle and Spherically Symmetric Flows. Archive for Rational Mechanics and Analysis, 2018, 229, 1239-1279.	2.4	10
23	Fluids, geometry, and the onset of Navier–Stokes turbulence in three space dimensions. Physica D: Nonlinear Phenomena, 2018, 376-377, 23-30.	2.8	1
24	Stability of steady multi-wave configurations for the full Euler equations of compressible fluid flow. Acta Mathematica Scientia, 2018, 38, 1485-1514.	1.0	3
25	Global Weak Solutions for the Compressible Active Liquid Crystal System. SIAM Journal on Mathematical Analysis, 2018, 50, 3632-3675.	1.9	7
26	Isometric embedding via strongly symmetric positive systems. Asian Journal of Mathematics, 2018, 22, 1-40.	0.3	3
27	Supersonic flow onto solid wedges, multidimensional shock waves and free boundary problems. Science China Mathematics, 2017, 60, 1353-1370.	1.7	4
28	Global existence and regularity of solutions for active liquid crystals. Journal of Differential Equations, 2017, 263, 202-239.	2.2	12
29	Two-Dimensional Steady Supersonic Exothermically Reacting Euler Flow past Lipschitz Bending Walls. SIAM Journal on Mathematical Analysis, 2017, 49, 818-873.	1.9	10
30	Stability of transonic shocks in steady supersonic flow past multidimensional wedges. Advances in Mathematics, 2017, 314, 493-539.	1.1	14
31	Fluids, Elasticity, Geometry, and the Existence of Wrinkled Solutions. Archive for Rational Mechanics and Analysis, 2017, 226, 1009-1060.	2.4	4
32	Incompressible limit of solutions of multidimensional steady compressible Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	12
33	Subsonic-Sonic Limit of Approximate Solutions to Multidimensional Steady Euler Equations. Archive for Rational Mechanics and Analysis, 2016, 219, 719-740.	2.4	46
34	Transonic flows with shocks past curved wedges for the full euler equations. Discrete and Continuous Dynamical Systems, 2016, 36, 4179-4211.	0.9	10
35	Free boundary problems in shock reflection/diffraction and related transonic flow problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140276.	3.4	8
36	Weak continuity and compactness for nonlinear partial differential equations. Chinese Annals of Mathematics Series B, 2015, 36, 715-736.	0.4	3

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37	Vanishing Viscosity Solutions of the Compressible Euler Equations with Spherical Symmetry and Large Initial Data. Communications in Mathematical Physics, 2015, 338, 771-800.	2.2	25
38	Free boundary problems: the forefront of current and future developments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140285.	3.4	13
39	Gas Dynamics Equations: Computation. , 2015, , 581-583.		0
40	Shock Diffraction by Convex Cornered Wedges for the Nonlinear Wave System. Archive for Rational Mechanics and Analysis, 2014, 211, 61-112.	2.4	28
41	Existence of Entropy Solutions to Two-Dimensional Steady Exothermically Reacting Euler Equations. Acta Mathematica Scientia, 2014, 34, 1-38.	1.0	24
42	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
43	Entropy, Elasticity, and the Isometric Embedding Problem: $${\mathbb{M}}^{3} ightarrow {\mathbb{R}}^{6}$$. Springer Proceedings in Mathematics and Statistics, 2014, , 95-112.	0.2	0
44	Well-posedness of transonic characteristic discontinuities in two-dimensional steady compressible Euler flows. Zeitschrift Fur Angewandte Mathematik Und Physik, 2013, 64, 1711-1727.	1.4	13
45	Weakly Nonlinear Geometric Optics for Hyperbolic Systems of Conservation Laws. Communications in Partial Differential Equations, 2013, 38, 1936-1970.	2.2	5
46	Stability of transonic characteristic discontinuities in two-dimensional steady compressible Euler flows. Journal of Mathematical Physics, 2013, 54, .	1.1	7
47	Entropy and convexity for nonlinear partial differential equations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120340.	3.4	9
48	Prandtl-Meyer reflection for supersonic flow past a solid ramp. Quarterly of Applied Mathematics, 2013, 71, 583-600.	0.7	15
49	Local uniqueness of steady spherical transonic shock-fronts for the three--dimensional full Euler equations. Communications on Pure and Applied Analysis, 2013, 12, 2515-2542.	0.8	8
50	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
51	Shallow water equations: viscous solutions and inviscid limit. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 1067-1084.	1.4	8
52	On Nonlinear Stochastic Balance Laws. Archive for Rational Mechanics and Analysis, 2012, 204, 707-743.	2.4	71
53	Remarks on the Contributions of Constantine M. Dafermos to the Subject of Conservation Laws. Acta Mathematica Scientia, 2012, 32, 3-14.	1.0	13
54	Kolmogorovâ€™s Theory of Turbulence and Inviscid Limit of the Navier-Stokes Equations in $${\mathbb{R}^3}$$. Communications in Mathematical Physics, 2012, 310, 267-283.	2.2	26

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55	Characteristic Discontinuities and Free Boundary Problems for Hyperbolic Conservation Laws. Abel Symposia, 2012, , 53-81.	0.3	12
56	Comparison principles for self-similar potential flow. Proceedings of the American Mathematical Society, 2012, 140, 651-663.	0.8	1
57	Multidimensional Conservation Laws: Overview, Problems, and Perspective. The IMA Volumes in Mathematics and Its Applications, 2011, , 23-72.	0.5	8
58	On the structure of solutions of nonlinear hyperbolic systems of conservation laws. Communications on Pure and Applied Analysis, 2011, 10, 1011-1036.	0.8	9
59	Transonic Flows and Isometric Embeddings. The IMA Volumes in Mathematics and Its Applications, 2011, , 257-266.	0.5	2
60	Isometric Immersions and Compensated Compactness. Communications in Mathematical Physics, 2010, 294, 411-437.	2.2	36
61	Vanishing viscosity limit of the Navierâ€Stokes equations to the euler equations for compressible fluid flow. Communications on Pure and Applied Mathematics, 2010, 63, 1469-1504.	3.1	112
62	A hyperbolic system of conservation laws for fluid flows through compliant axisymmetric vessels. Acta Mathematica Scientia, 2010, 30, 391-427.	1.0	0
63	A study of the Navier-Stokes equations with the kinematic and Navier boundary conditions. Indiana University Mathematics Journal, 2010, 59, 721-760.	0.9	17
64	Global solutions of shock reflection by large-angle wedges for potential flow. Annals of Mathematics, 2010, 171, 1067-1182.	4.2	81
65	A fluid dynamic formulation of the isometric embedding problem in differential geometry. Quarterly of Applied Mathematics, 2009, 68, 73-80.	0.7	5
66	Large-time behavior of periodic entropy solutions to anisotropic degenerate parabolic-hyperbolic equations. Proceedings of the American Mathematical Society, 2009, 137, 3003-3003.	0.8	24
67	Gaussâ€Green theorem for weakly differentiable vector fields, sets of finite perimeter, and balance laws. Communications on Pure and Applied Mathematics, 2009, 62, 242-304.	3.1	90
68	Regularity of solutions to regular shock reflection for potential flow. Inventiones Mathematicae, 2009, 175, 505-543.	2.5	44
69	The Navier-Stokes equations with the kinematic and vorticity boundary conditions on non-flat boundaries. Acta Mathematica Scientia, 2009, 29, 919-948.	1.0	17
70	Uniqueness of transonic shock solutions in a duct for steady potential flow. Journal of Differential Equations, 2009, 247, 564-573.	2.2	11
71	Evolution of Discontinuity and Formation of Triple-Shock Pattern in Solutions to a Two-Dimensional Hyperbolic System of Conservation Laws. SIAM Journal on Mathematical Analysis, 2009, 41, 1-25.	1.9	10
72	Weak continuity of the Gauss-Codazzi-Ricci system for isometric embedding. Proceedings of the American Mathematical Society, 2009, 138, 1843-1852.	0.8	18

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73	Existence and Stability of Compressible Current-Vortex Sheets in Three-Dimensional Magnetohydrodynamics. Archive for Rational Mechanics and Analysis, 2008, 187, 369-408.	2.4	66
74	Continuous Dependence of Entropy Solutions to the Euler Equations on the Adiabatic Exponent and Mach Number. Archive for Rational Mechanics and Analysis, 2008, 189, 97-130.	2.4	17
75	Vanishing Viscosity Method for Transonic Flow. Archive for Rational Mechanics and Analysis, 2008, 189, 159-188.	2.4	36
76	Dedication on the occasion of Professor Xiaqi Ding's 80th birthday. Acta Mathematicae Applicatae Sinica, 2008, 24, 353-354.	0.7	0
77	Well-posedness for two-dimensional steady supersonic Euler flows past a Lipschitz wedge. Journal of Differential Equations, 2008, 244, 1521-1550.	2.2	26
78	Hyperbolic conservation laws with discontinuous fluxes and hydrodynamic limit for particle systems. Journal of Differential Equations, 2008, 245, 3095-3126.	2.2	22
79	Stability of transonic shock-fronts in three-dimensional conical steady potential flow past a perturbed cone. Discrete and Continuous Dynamical Systems, 2008, 23, 85-114.	0.9	2
80	STABILITY OF RAREFACTION WAVES AND VACUUM STATES FOR THE MULTIDIMENSIONAL EULER EQUATIONS. Journal of Hyperbolic Differential Equations, 2007, 04, 105-122.	0.5	35
81	Solutions for a nonlocal conservation law with fading memory. Proceedings of the American Mathematical Society, 2007, 135, 3905-3916.	0.8	13
82	Stability of Compressible Vortex Sheets in Steady Supersonic Euler Flows over Lipschitz Walls. SIAM Journal on Mathematical Analysis, 2007, 38, 1660-1693.	1.9	15
83	Stability of Nonlinear Feedback Systems: A New Small-Gain Theorem. SIAM Journal on Control and Optimization, 2007, 46, 1995-2012.	2.1	7
84	Dependence of entropy solutions in the large for the Euler equations on nonlinear flux functions. Indiana University Mathematics Journal, 2007, 56, 2535-2568.	0.9	13
85	Transonic shocks and free boundary problems for the full Euler equations in infinite nozzles. Journal Des Mathematiques Pures Et Appliquees, 2007, 88, 191-218.	1.6	49
86	Existence and Stability of Multidimensional Transonic Flows through an Infinite Nozzle of Arbitrary Cross-Sections. Archive for Rational Mechanics and Analysis, 2007, 184, 185-242.	2.4	46
87	On Two-Dimensional Sonic-Subsonic Flow. Communications in Mathematical Physics, 2007, 271, 635-647.	2.2	91
88	Measure-Theoretic Analysis and Nonlinear Conservation Laws. Pure and Applied Mathematics Quarterly, 2007, 3, 841-879.	0.4	8
89	Validity of nonlinear geometric optics for entropy solutions of multidimensional scalar conservation laws. Journal of Differential Equations, 2006, 222, 439-475.	2.2	8
90	Transonic nozzle flows and free boundary problems for the full Euler equations. Journal of Differential Equations, 2006, 229, 92-120.	2.2	31

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91	Existence and Stability of Supersonic Euler Flows Past Lipschitz Wedges. Archive for Rational Mechanics and Analysis, 2006, 181, 261-310.	2.4	54
92	Quasilinear anisotropic degenerate parabolic equations with time-space dependent diffusion coefficients. Communications on Pure and Applied Analysis, 2005, 4, 241-266.	0.8	56
93	Divergence-Measure Fields, Sets of Finite Perimeter, and Conservation Laws. Archive for Rational Mechanics and Analysis, 2005, 175, 245-267.	2.4	47
94	Euler Equations and Related Hyperbolic Conservation Laws. Handbook of Differential Equations: Evolutionary Equations, 2005, , 1-104.	0.9	25
95	Potential theory for shock reflection by a large-angle wedge. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15368-15372.	7.1	24
96	A multidimensional piston problem for the Euler equations for compressible flow. Discrete and Continuous Dynamical Systems, 2005, 13, 361-383.	0.9	23
97	L^1--framework for continuous dependence and error estimates for quasilinear anisotropic degenerate parabolic equations. Transactions of the American Mathematical Society, 2004, 358, 937-963.	0.9	25
98	Conditional gain is necessary and sufficient for the robust stabilization of nonlinear systems. , 2004, , .		1
99	CENTERED DIFFERENCE SCHEMES FOR NONLINEAR HYPERBOLIC EQUATIONS. Journal of Hyperbolic Differential Equations, 2004, 01, 531-566.	0.5	24
100	Relativistic Euler equations for isentropic fluids: Stability of Riemann solutions with large oscillation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2004, 55, 903-926.	1.4	29
101	Steady transonic shocks and free boundary problems in infinite cylinders for the Euler equations. Communications on Pure and Applied Mathematics, 2004, 57, 310-356.	3.1	83
102	Stability of Riemann solutions with large oscillation for the relativistic Euler equations. Journal of Differential Equations, 2004, 202, 332-353.	2.2	58
103	Concentration and cavitation in the vanishing pressure limit of solutions to the Euler equations for nonisentropic fluids. Physica D: Nonlinear Phenomena, 2004, 189, 141-165.	2.8	135
104	Existence and continuous dependence of large solutions for the magnetohydrodynamic equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2003, 54, 608-632.	1.4	138
105	Existence Theory for the Isentropic Euler Equations. Archive for Rational Mechanics and Analysis, 2003, 166, 81-98.	2.4	51
106	Global Solutions to a Model for Exothermically Reacting, Compressible Flows with Large Discontinuous Initial Data. Archive for Rational Mechanics and Analysis, 2003, 166, 321-358.	2.4	70
107	Entropy Solutions in L ? for the Euler Equations in Nonlinear Elastodynamics and Related Equations. Archive for Rational Mechanics and Analysis, 2003, 170, 331-357.	2.4	5
108	Extended Divergence-Measure Fields and the Euler Equations for Gas Dynamics. Communications in Mathematical Physics, 2003, 236, 251-280.	2.2	83

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109	Some recent methods for partial differential equations of divergence form. Bulletin of the Brazilian Mathematical Society, 2003, 34, 107-144.	0.8	5
110	Global entropy solutions to exothermically reacting, compressible Euler equations. Journal of Differential Equations, 2003, 191, 277-322.	2.2	47
111	Well-posedness for non-isotropic degenerate parabolic-hyperbolic equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2003, 20, 645-668.	1.4	145
112	Formation of δ-Shocks and Vacuum States in the Vanishing Pressure Limit of Solutions to the Euler Equations for Isentropic Fluids. SIAM Journal on Mathematical Analysis, 2003, 34, 925-938.	1.9	295
113	Multidimensional transonic shocks and free boundary problems for nonlinear equations of mixed type. Journal of the American Mathematical Society, 2003, 16, 461-494.	3.9	137
114	Discontinuous Solutions of Hamilton-Jacobi Equations: Existence, Uniqueness, and Regularity. , 2003, , 443-453.		3
115	A viscous approximation for a multidimensional unsteady Euler flow: Existence theorem for potential flow. Discrete and Continuous Dynamical Systems, 2003, 9, 1587-1606.	0.9	1
116	Discontinuous solutions for Hamilton-Jacobi equations: Uniqueness and regularity. Discrete and Continuous Dynamical Systems, 2003, 9, 167-192.	0.9	8
117	Global Entropy Solutions in <i>L</i><sup>infinity</sup> to the Euler Equations and Euler-Poisson Equations for Isothermal Fluids with Spherical Symmetry. Methods and Applications of Analysis, 2003, 10, 215-244.	0.5	19
118	Analysis on a Model for the Dynamic Combustion of a Compressible, Reacting Fluid. , 2003, , 433-442.		0
119	Existence and Stability of Multidimensional Transonic Shocks for the Euler Equations for Steady Potential Fluids in Unbounded Domains. , 2003, , 419-432.		0
120	The Cauchy Problem for the Euler Equations for Compressible Fluids. Handbook of Mathematical Fluid Dynamics, 2002, 1, 421-543.	0.1	61
121	GLOBAL SOLUTIONS TO THE NAVIER-STOKES EQUATIONS FOR COMPRESSIBLE HEAT-CONDUCTING FLOW WITH SYMMETRY AND FREE BOUNDARY. Communications in Partial Differential Equations, 2002, 27, 907-943.	2.2	38
122	Global Solutions of Nonlinear Magnetohydrodynamics with Large Initial Data. Journal of Differential Equations, 2002, 182, 344-376.	2.2	184
123	Uniqueness and Stability of Riemann Solutions¶with Large Oscillation in Gas Dynamics. Communications in Mathematical Physics, 2002, 228, 201-217.	2.2	55
124	On the Navier-Stokes Equations for Exothermically Reacting Compressible Fluids. Acta Mathematicae Applicatae Sinica, 2002, 18, 15-36.	0.7	30
125	On global discontinuous solutions of Hamilton–Jacobi equations. Comptes Rendus Mathematique, 2002, 334, 113-118.	0.3	3
126	Stability of Entropy Solutions to the Cauchy Problem for a Class of Nonlinear Hyperbolic-Parabolic Equations. SIAM Journal on Mathematical Analysis, 2001, 33, 751-762.	1.9	43

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127	Hyperbolic Conservation Lawsï¿½with Umbilic Degeneracy. Archive for Rational Mechanics and Analysis, 2001, 160, 325-354.	2.4	10
128	On the theory of divergence-measure fields and its applications. Sociedade Brasileira De Matematica Boletim, Nova Serie, 2001, 32, 401-433.	0.2	59
129	ENTROPIES AND FLUX-SPLITTINGS FOR THE ISENTROPIC EULER EQUATIONS. Chinese Annals of Mathematics Series B, 2001, 22, 145-158.	0.4	11
130	On the zero-Rossby limit for the primitive equations of the atmosphere*. Nonlinearity, 2001, 14, 1279-1295.	1.4	1
131	Uniqueness and asymptotic stability of Riemann solutions for the compressible Euler equations. Transactions of the American Mathematical Society, 2000, 353, 1103-1117.	0.9	41
132	Initial Layers and Uniqueness ofÂ¶Weak Entropy Solutions toÂ¶Hyperbolic Conservation Laws. Archive for Rational Mechanics and Analysis, 2000, 153, 205-220.	2.4	60
133	Compressible Euler EquationsÂ¶with General Pressure Law. Archive for Rational Mechanics and Analysis, 2000, 153, 221-259.	2.4	63
134	DISCONTINUOUS SOLUTIONS IN LâˆžFOR HAMILTON-JACOBI EQUATIONS. Chinese Annals of Mathematics Series B, 2000, 21, 165-186.	0.4	4
135	Compressible Euler-Maxwell equations. Transport Theory and Statistical Physics, 2000, 29, 311-331.	0.4	84
136	Global solutions of the compressible navier-stokes equations with larger discontinuous initial data. Communications in Partial Differential Equations, 2000, 25, 2233-2257.	2.2	85
137	On the 2-D Riemann problem for the compressible Euler equations II. Interaction of contact discontinuities. Discrete and Continuous Dynamical Systems, 2000, 6, 419-430.	0.9	41
138	Decay of Entropy Solutions of Nonlinear Conservation Laws. Archive for Rational Mechanics and Analysis, 1999, 146, 95-127.	2.4	58
139	Divergence-Measure Fields and Hyperbolic Conservation Laws. Archive for Rational Mechanics and Analysis, 1999, 147, 89-118.	2.4	227
140	Large-Time Behavior of Entropy Solutions of Conservation Laws. Journal of Differential Equations, 1999, 152, 308-357.	2.2	37
141	Compactness and Asymptotic Behavior of Entropy Solutions without Locally Bounded Variation for Hyperbolic Conservation Laws. , 1999, , 139-148.		0
142	Shock capturing approximations to the compressible Euler equations with geometric structure and related equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 1998, 49, 341.	1.4	6
143	Formation of Singularities in Compressible Eulerâ€"Poisson Fluids with Heat Diffusion and Damping Relaxation. Journal of Differential Equations, 1998, 144, 44-65.	2.2	62
144	Analysis and Simulation of Extended Hydrodynamic Models: The Multi-Valley Gunn Oscillator and MESFET Symmetries. VLSI Design, 1998, 6, 277-282.	0.5	2

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145	Advances in Nonlinear Partial Differential Equations and Related Areas. , 1998, , .		1
146	LARGE-TIME BEHAVIOR OF ENTROPY SOLUTIONS IN Lᵃˆž FOR MULTIDIMENSIONAL CONSERVATION LAWS. , 1998, , 28-44.		8
147	On the compressible Euler equations in thermoelasticity. Matematica Contemporanea, 1998, 15, .	0.0	1
148	Remarks on spherically symmetric solutions of the compressible Euler equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1997, 127, 243-259.	1.2	36
149	Remarks on DiPernaâ€™s paper â€œConvergence of the viscosity method for isentropic gas dynamicsâ€• Proceedings of the American Mathematical Society, 1997, 125, 2981-2986.	0.8	23
150	Convergence of difference schemes with high resolution for conservation laws. Mathematics of Computation, 1997, 66, 1027-1054.	2.1	9
151	Asymptotic stability of Riemann waves for conservation laws. Zeitschrift Fur Angewandte Mathematik Und Physik, 1997, 48, 30-44.	1.4	10
152	Entropies and weak solutions of the compressible isentropic Euler equations. Comptes Rendus Mathematique, 1997, 324, 1105-1110.	0.5	7
153	Particle hydrodynamic moment models in biology and microelectronics: Singular relaxation limits. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 233-244.	1.1	20
154	Convergence of shock capturing schemes for the compressible Euler-Poisson equations. Communications in Mathematical Physics, 1996, 179, 333-364.	2.2	63
155	Global solutions to the compressible Euler equations with geometrical structure. Communications in Mathematical Physics, 1996, 180, 153-193.	2.2	108
156	Structure of Riemann Solutions for 2-Dimensional Scalar Conservation Laws. Journal of Differential Equations, 1996, 127, 124-147.	2.2	32
157	Existence and Asymptotic Behavior of Measure-Valued Solutions for Degenerate Conservation Laws. Journal of Differential Equations, 1996, 127, 197-224.	2.2	5
158	Global solutions to the cylindrically symmetric rotating motion of isentropic gases. Zeitschrift Fur Angewandte Mathematik Und Physik, 1996, 47, 353-372.	1.4	7
159	Entropy flux-splittings for hyperbolic conservation laws part I: General framework. Communications on Pure and Applied Mathematics, 1995, 48, 691-729.	3.1	21
160	Hyperbolic conservation laws with umbilic degeneracy, I. Archive for Rational Mechanics and Analysis, 1995, 130, 231-276.	2.4	26
161	On the 2-D Riemann problem for the compressible Euler equations I. Interaction of shocks and rarefaction waves. Discrete and Continuous Dynamical Systems, 1995, 1, 555-584.	0.9	87
162	The Vanishing Viscosity Method in One-Dimensional Thermoelasticity. Transactions of the American Mathematical Society, 1995, 347, 531.	0.9	1

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163	Some singular limit problems in conservation laws. Matematica Contemporanea, 1995, 8, .	0.0	0
164	Hyperbolic conservation laws with stiff relaxation terms and entropy. Communications on Pure and Applied Mathematics, 1994, 47, 787-830.	3.1	550
165	Zero relaxation and dissipation limits for hyperbolic conservation laws. Communications on Pure and Applied Mathematics, 1993, 46, 755-781.	3.1	107
166	Spectral Viscosity Approximations to Multidimensional Scalar Conservation Laws. Mathematics of Computation, 1993, 61, 629.	2.1	9
167	Large Time, Weak Solutions to Reacting Euler Equations. , 1993, , 144-149.		1
168	Convergence of Second-Order Schemes for Isentropic Gas Dynamics. Mathematics of Computation, 1993, 61, 607.	2.1	1
169	Global Solutions to the Compressible Navier–Stokes Equations for a Reacting Mixture. SIAM Journal on Mathematical Analysis, 1992, 23, 609-634.	1.9	86
170	The method of quasidecoupling for discontinuous solutions to conservation laws. Archive for Rational Mechanics and Analysis, 1992, 121, 131-185.	2.4	33
171	Propagation and cancellation of oscillations for hyperbolic systems of conservation laws. Communications on Pure and Applied Mathematics, 1991, 44, 121-140.	3.1	19
172	Hyperbolic systems of conservation laws with a symmetry. Communications in Partial Differential Equations, 1991, 16, 1461-1487.	2.2	39
173	OVERTAKING OF SHOCKS OF THE SAME KIND IN THE ISENTROPIC STEADY SUPERSONIC PLANE FLOW. Acta Mathematica Scientia, 1987, 7, 311-327.	1.0	2
174	DIFFRACTION OF PLANAR SHOCK ALONG COMPRESSIVE CORNER. Acta Mathematica Scientia, 1986, 6, 241-257.	1.0	16
175	Compensated compactness in Banach spaces and weak rigidity of isometric immersions of manifolds. , 0, , 73-95.		0