

Helge Holden

List of Publications by Year in descending order

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90
papers

3,143
citations

172457

29
h-index

197818

49
g-index

96
all docs

96
docs citations

96
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniqueness of conservative solutions for the Hunter–Saxton equation. <i>Research in Mathematical Sciences</i> , 2022, 9, 1.	1.0	2
2	Strong solutions of a stochastic differential equation with irregular random drift. <i>Stochastic Processes and Their Applications</i> , 2022, 150, 655-677.	0.9	1
3	The Hunter–Saxton equation with noise. <i>Journal of Differential Equations</i> , 2021, 270, 725-786.	2.2	13
4	Evolutionarily stable strategies in stable and periodically fluctuating populations: The Rosenzweig–MacArthur predator–prey model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2017463118.	7.1	25
5	Singular diffusion with Neumann boundary conditions. <i>Nonlinearity</i> , 2021, 34, 1633-1662.	1.4	0
6	Reply to Best and Ashby: The concept of evolutionarily stable strategies (ESS) helps link ecology and evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2102861118.	7.1	0
7	On the Microscopic Modeling of Vehicular Traffic on General Networks. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 1377-1391.	1.8	2
8	A LIPSCHITZ METRIC FOR THE CAMASSA–HOLM EQUATION. <i>Forum of Mathematics, Sigma</i> , 2020, 8, .	0.7	0
9	A Lipschitz metric for the Hunter–Saxton equation. <i>Communications in Partial Differential Equations</i> , 2019, 44, 309-334.	2.2	8
10	Models for Dense Multilane Vehicular Traffic. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 3694-3713.	1.9	13
11	An improvement of the Kolmogorov–Riesz compactness theorem. , 2019, 37, 84-91.		16
12	On the Equivalence of Eulerian and Lagrangian Variables for the Two-Component Camassa–Holm System. <i>Springer Optimization and Its Applications</i> , 2018, , 157-201.	0.9	2
13	The continuum limit of Follow-the-Leader models – a short proof. <i>Discrete and Continuous Dynamical Systems</i> , 2018, 38, 715-722.	0.9	18
14	Follow-the-Leader models can be viewed as a numerical approximation to the Lighthill-Whitham-Richards model for traffic flow. <i>Networks and Heterogeneous Media</i> , 2018, 13, 409-421.	1.1	15
15	Real-Valued Algebro-Geometric Solutions of the Two-Component Camassa–Holm Hierarchy. <i>Annales De L'Institut Fourier</i> , 2017, 67, 1185-1230.	0.6	9
16	On the index of meromorphic operator-valued functions and some applications. , 2017, , 95-127.		2
17	Addendum to “The Kolmogorov–Riesz compactness theorem” [Expo. Math. 28 (2010) 385–394]. , 2016, 34, 243-245.		2
18	The general peakon–antipeakon solution for the Camassa–Holm equation. <i>Journal of Hyperbolic Differential Equations</i> , 2016, 13, 353-380.	0.5	10

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19	Isentropic fluid dynamics in a curved pipe. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016, 67, 1.	1.4	2
20	Dirichlet-to-Neumann maps, abstract Weyl–Titchmarsh M-functions, and a generalized index of unbounded meromorphic operator-valued functions. <i>Journal of Differential Equations</i> , 2016, 261, 3551-3587.	2.2	8
21	Convergence of finite difference schemes for the Benjamin–Ono equation. <i>Numerische Mathematik</i> , 2016, 134, 249-274.	1.9	5
22	On the Braess Paradox with Nonlinear Dynamics and Control Theory. <i>Journal of Optimization Theory and Applications</i> , 2016, 168, 216-230.	1.5	5
23	Convergence of a fully discrete finite difference scheme for the Korteweg–de Vries equation. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 1047-1077.	2.9	19
24	A CONTINUOUS INTERPOLATION BETWEEN CONSERVATIVE AND DISSIPATIVE SOLUTIONS FOR THE TWO-COMPONENT CAMASSA–HOLM SYSTEM. <i>Forum of Mathematics, Sigma</i> , 2015, 3, .	0.7	17
25	On Factorizations of Analytic Operator-Valued Functions and Eigenvalue Multiplicity Questions. <i>Integral Equations and Operator Theory</i> , 2015, 82, 61-94.	0.8	5
26	Camassa–Holm Equations. , 2015, , 176-178.		0
27	On an inverse problem for scalar conservation laws. <i>Inverse Problems</i> , 2014, 30, 035015.	2.0	11
28	Global dissipative solutions of the two-component Camassa–Holm system for initial data with nonvanishing asymptotics. <i>Nonlinear Analysis: Real World Applications</i> , 2014, 17, 203-244.	1.7	14
29	Operator Splitting for Well-Posed Active Scalar Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 152-180.	1.9	2
30	Optimal rebalancing of portfolios with transaction costs. <i>Stochastics</i> , 2013, 85, 371-394.	1.1	4
31	Lipschitz metric for the Camassa–Holm equation on the line. <i>Discrete and Continuous Dynamical Systems</i> , 2013, 33, 2809-2827.	0.9	26
32	Operator splitting for partial differential equations with Burgers nonlinearity. <i>Mathematics of Computation</i> , 2012, 82, 173-185.	2.1	57
33	Operator splitting for two-dimensional incompressible fluid equations. <i>Mathematics of Computation</i> , 2012, 82, 719-748.	2.1	4
34	Abstract wave equations and associated Dirac-type operators. <i>Annali Di Matematica Pura Ed Applicata</i> , 2012, 191, 631-676.	1.0	16
35	Global Solutions for the Two-Component Camassa–Holm System. <i>Communications in Partial Differential Equations</i> , 2012, 37, 2245-2271.	2.2	41
36	Global conservative solutions to the Camassa–Holm equation for initial data with nonvanishing asymptotics. <i>Discrete and Continuous Dynamical Systems</i> , 2012, 32, 4209-4227.	0.9	18

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37	Global Semigroup of Conservative Solutions of the Nonlinear Variational Wave Equation. Archive for Rational Mechanics and Analysis, 2011, 201, 871-964.	2.4	37
38	Lipschitz metric for the periodic Camassa-Holm equation. Journal of Differential Equations, 2011, 250, 1460-1492.	2.2	27
39	The damped string problem revisited. Journal of Differential Equations, 2011, 251, 1086-1127.	2.2	16
40	L^∞ Solutions for a Model of Nonisothermal Polytropic Gas Flow. SIAM Journal on Mathematical Analysis, 2011, 43, 2253-2274.	1.9	3
41	Operator splitting for the KdV equation. Mathematics of Computation, 2011, 80, 821-821.	2.1	58
42	Front tracking for a model of immiscible gas flow with large data. BIT Numerical Mathematics, 2010, 50, 331-376.	2.0	8
43	Contract adjustment under uncertainty. Journal of Economic Dynamics and Control, 2010, 34, 657-680.	1.6	4
44	Lipschitz metric for the Hunter-Saxton equation. Journal Des Mathematiques Pures Et Appliquees, 2010, 94, 68-92.	1.6	43
45	The Kolmogorov-Riesz compactness theorem. , 2010, 28, 385-394.		145
46	Ground states of the Schrödinger-Maxwell system with dirac mass: Existence and asymptotics. Discrete and Continuous Dynamical Systems, 2010, 27, 117-132.	0.9	1
47	THE SOLUTION OF THE CAUCHY PROBLEM WITH LARGE DATA FOR A MODEL OF A MIXTURE OF GASES. Journal of Hyperbolic Differential Equations, 2009, 06, 25-106.	0.5	14
48	Strong compactness of approximate solutions to degenerate elliptic-hyperbolic equations with discontinuous flux function. Acta Mathematica Scientia, 2009, 29, 1573-1612.	1.0	10
49	Dissipative solutions for the Camassa-Holm equation. Discrete and Continuous Dynamical Systems, 2009, 24, 1047-1112.	0.9	123
50	Local Conservation Laws and the Hamiltonian Formalism for the Ablowitz-Ladik Hierarchy. Studies in Applied Mathematics, 2008, 120, 361-423.	2.4	12
51	Real-valued algebro-geometric solutions of the Camassa-Holm hierarchy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1025-1054.	3.4	33
52	The algebro-geometric Toda hierarchy initial value problem for complex-valued initial data. Revista Matematica Iberoamericana, 2008, 24, 117-182.	0.9	6
53	Periodic conservative solutions of the Camassa-Holm equation. Annales De L'Institut Fourier, 2008, 58, 945-988.	0.6	47
54	The Ablowitz-Ladik Hierarchy Revisited. , 2008, , 139-190.		2

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55	GLOBAL CONSERVATIVE MULTIPLEAKON SOLUTIONS OF THE CAMASSA–HOLM EQUATION. <i>Journal of Hyperbolic Differential Equations</i> , 2007, 04, 39-64.	0.5	49
56	Global Conservative Solutions of the Camassa–Holm Equation—A Lagrangian Point of View. <i>Communications in Partial Differential Equations</i> , 2007, 32, 1511-1549.	2.2	194
57	Global conservative solutions of the generalized hyperelastic-rod wave equation. <i>Journal of Differential Equations</i> , 2007, 233, 448-484.	2.2	49
58	Convergence of a Finite Difference Scheme for the Camassa–Holm Equation. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1655-1680.	2.3	51
59	A convergent numerical scheme for the Camassa–Holm equation based on multipleakons. <i>Discrete and Continuous Dynamical Systems</i> , 2006, 14, 505-523.	0.9	79
60	Algebro-Geometric Solutions of the Baxter–Szegő Difference Equation. <i>Communications in Mathematical Physics</i> , 2005, 258, 149-177.	2.2	65
61	Stability of solutions of quasilinear parabolic equations. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 308, 221-239.	1.0	15
62	Wellposedness for a parabolic-elliptic system. <i>Discrete and Continuous Dynamical Systems</i> , 2005, 13, 659-682.	0.9	95
63	Front Tracking for Hyperbolic Conservation Laws. <i>Applied Mathematical Sciences (Switzerland)</i> , 2002, , .	0.8	152
64	Operator Splitting for Convection-Dominated Nonlinear Partial Differential Equations. , 2001, , 469-475.		1
65	Borg-Type Theorems for Matrix-Valued Schrödinger Operators. <i>Journal of Differential Equations</i> , 2000, 167, 181-210.	2.2	46
66	Title is missing!. <i>Computational Geosciences</i> , 2000, 4, 287-322.	2.4	30
67	Riemann Problems with a Kink. <i>SIAM Journal on Mathematical Analysis</i> , 1999, 30, 497-515.	1.9	24
68	Unconditionally Stable Splitting Methods for the Shallow Water Equations. <i>BIT Numerical Mathematics</i> , 1999, 39, 451-472.	2.0	26
69	An Unconditionally Stable Method for the Euler Equations. <i>Journal of Computational Physics</i> , 1999, 150, 76-96.	3.8	32
70	Operator Splitting Methods for Generalized Korteweg–De Vries Equations. <i>Journal of Computational Physics</i> , 1999, 153, 203-222.	3.8	47
71	A Mathematical Model of Traffic Flow on a Network of Unidirectional Roads. <i>SIAM Journal on Mathematical Analysis</i> , 1995, 26, 999-1017.	1.9	230
72	Stochastic boundary value problems: a white noise functional approach. <i>Probability Theory and Related Fields</i> , 1993, 95, 391-419.	1.8	22

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73	A method of fractional steps for scalar conservation laws without the CFL condition. <i>Mathematics of Computation</i> , 1993, 60, 221-232.	2.1	39
74	A New Front-Tracking Method for Reservoir Simulation. <i>SPE Reservoir Engineering</i> , 1992, 7, 107-116.	0.5	57
75	Discrete wick calculus and stochastic functional equations. <i>Potential Analysis</i> , 1992, 1, 291-306.	0.9	14
76	Explicit construction of solutions of the modified Kadomtsev-Petviashvili equation. <i>Journal of Functional Analysis</i> , 1991, 98, 211-228.	1.4	16
77	Stochastic Properties of the Scalar Buckley-Leverett Equation. <i>SIAM Journal on Applied Mathematics</i> , 1991, 51, 1472-1488.	1.8	13
78	Representation and construction of multiplicative noise. <i>Journal of Functional Analysis</i> , 1989, 87, 250-272.	1.4	19
79	A law of large numbers and a central limit theorem for the Schrödinger operator with zero-range potentials. <i>Journal of Statistical Physics</i> , 1988, 51, 205-214.	1.2	19
80	Trapping and cascading of eigenvalues in the large coupling limit. <i>Communications in Mathematical Physics</i> , 1988, 118, 597-634.	2.2	59
81	Stochastic multiplicative measures, generalized Markov semigroups, and group-valued stochastic processes and fields. <i>Journal of Functional Analysis</i> , 1988, 78, 154-184.	1.4	29
82	On energy gaps in a new type of analytically solvable model in quantum mechanics. <i>Journal of Mathematical Analysis and Applications</i> , 1988, 134, 9-29.	1.0	21
83	A numerical method for first order nonlinear scalar conservation laws in one-dimension. <i>Computers and Mathematics With Applications</i> , 1988, 15, 595-602.	2.7	94
84	On the riemann problem for a prototype of a mixed type conservation law. <i>Communications on Pure and Applied Mathematics</i> , 1987, 40, 229-264.	3.1	50
85	A unified approach to eigenvalues and resonances of Schrödinger operators using Fredholm determinants. <i>Journal of Mathematical Analysis and Applications</i> , 1987, 123, 181-198.	1.0	24
86	The Fermi surface for point interactions. <i>Journal of Mathematical Physics</i> , 1986, 27, 385-405.	1.1	4
87	On absence of diffusion for low energy for a random Schrödinger operator on $L^2(\mathbb{R})$. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1984, 124, 413-417.	2.6	0
88	On absence of diffusion near the bottom of the spectrum for a random Schrödinger operator on $L^2(\mathbb{R})^+$. <i>Communications in Mathematical Physics</i> , 1984, 93, 197-217.	2.2	70
89	The spectrum of defect periodic point interactions. <i>Letters in Mathematical Physics</i> , 1983, 7, 221-228.	1.1	7
90	Symmetric Waves Are Traveling Waves. <i>International Mathematics Research Notices</i> , 0, , .	1.0	5