

Anders Szepessy

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,173
citations

623734

14
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear stability of viscous shock waves. Archive for Rational Mechanics and Analysis, 1993, 122, 53-103.	2.4	192
2	A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations. Computer Methods in Applied Mechanics and Engineering, 1990, 84, 175-192.	6.6	172
3	On the convergence of shock-capturing streamline diffusion finite element methods for hyperbolic conservation laws. Mathematics of Computation, 1990, 54, 107-129.	2.1	143
4	On the convergence of a finite element method for a nonlinear hyperbolic conservation law. Mathematics of Computation, 1987, 49, 427-444.	2.1	93
5	Adaptive finite element methods for conservation laws based on a posteriori error estimates. Communications on Pure and Applied Mathematics, 1995, 48, 199-234.	3.1	86
6	Convergence of a shock-capturing streamline diffusion finite element method for a scalar conservation law in two space dimensions. Mathematics of Computation, 1989, 53, 527-527.	2.1	81
7	An existence result for scalar conservation laws using measure valued solutions.. Communications in Partial Differential Equations, 1989, 14, 1329-1350.	2.2	67
8	Stability of rarefaction waves in viscous media. Archive for Rational Mechanics and Analysis, 1996, 133, 249-298.	2.4	62
9	Adaptive weak approximation of stochastic differential equations. Communications on Pure and Applied Mathematics, 2001, 54, 1169-1214.	3.1	53
10	Measure-valued solutions of scalar conservation laws with boundary conditions. Archive for Rational Mechanics and Analysis, 1989, 107, 181-193.	2.4	46
11	Implementation and analysis of an adaptive multilevel Monte Carlo algorithm. Monte Carlo Methods and Applications, 2014, 20, 1-41.	0.8	30
12	Convergence Rates for Adaptive Weak Approximation of Stochastic Differential Equations. Stochastic Analysis and Applications, 2005, 23, 511-558.	1.5	28
13	Convergence rates for adaptive approximation of ordinary differential equations. Numerische Mathematik, 2003, 96, 99-129.	1.9	17
14	Dynamics and Stability of a Weak Detonation Wave. Communications in Mathematical Physics, 1999, 202, 547-569.	2.2	16
15	Adaptive Multilevel Monte Carlo Simulation. Lecture Notes in Computational Science and Engineering, 2012, , 217-234.	0.3	16
16	Adaptive weak approximation of reflected and stopped diffusions. Monte Carlo Methods and Applications, 2010, 16, 1-67.	0.8	14
17	A variational principle for adaptive approximation of ordinary differential equations. Numerische Mathematik, 2003, 96, 131-152.	1.9	12
18	Adaptive Monte Carlo Algorithms for Stopped Diffusion. Lecture Notes in Computational Science and Engineering, 2005, , 59-88.	0.3	12

#	ARTICLE	IF	CITATIONS
19	A Remark on the Stability of Viscous Shock Waves. SIAM Journal on Mathematical Analysis, 1994, 25, 1463-1467.	1.9	9
20	On the stability of finite element methods for shock waves. Communications on Pure and Applied Mathematics, 1992, 45, 923-946.	3.1	7
21	Hyperbolic Differential Equations and Adaptive Numerics. Universitext, 2001, , 231-280.	0.2	7
22	LANGEVIN MOLECULAR DYNAMICS DERIVED FROM EHRENFEST DYNAMICS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 2289-2334.	3.3	6
23	Computational Error Estimates for Born-Oppenheimer Molecular Dynamics with Nearly Crossing Potential Surfaces. Applied Mathematics Research EXpress, 2015, 2015, 329-417.	1.0	4
24	Preface and Introduction to the Contents of Issue 46:2. BIT Numerical Mathematics, 2006, 46, 227-227.	2.0	0