Claes Johnson

List of Publications by Year in descending order

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37 papers	4,329 citations	201674 27 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1248 citing authors

#	Article	IF	Citations
1	Finite element methods for linear hyperbolic problems. Computer Methods in Applied Mechanics and Engineering, 1984, 45, 285-312.	6.6	578
2	Adaptive Finite Element Methods for Parabolic Problems I: A Linear Model Problem. SIAM Journal on Numerical Analysis, 1991, 28, 43-77.	2.3	493
3	Introduction to Adaptive Methods for Differential Equations. Acta Numerica, 1995, 4, 105-158.	10.7	411
4	Adaptive finite element methods in computational mechanics. Computer Methods in Applied Mechanics and Engineering, 1992, 101, 143-181.	6.6	287
5	Discontinuous Galerkin finite element methods for second order hyperbolic problems. Computer Methods in Applied Mechanics and Engineering, 1993, 107, 117-129.	6.6	200
6	Adaptive Finite Element Methods for Parabolic Problems II: Optimal Error Estimates in $L_infty L_2 $ and $L_infty L_infty $. SIAM Journal on Numerical Analysis, 1995, 32, 706-740.	2.3	196
7	Adaptive Finite Element Methods for Parabolic Problems IV: Nonlinear Problems. SIAM Journal on Numerical Analysis, 1995, 32, 1729-1749.	2.3	190
8	Streamline diffusion methods for the incompressible Euler and Navier-Stokes equations. Mathematics of Computation, 1986, 47, 1-18.	2.1	168
9	Error Estimates and Adaptive Time-Step Control for a Class of One-Step Methods for Stiff Ordinary Differential Equations. SIAM Journal on Numerical Analysis, 1988, 25, 908-926.	2.3	165
10	Time discretization of parabolic problems by the discontinuous Galerkin method. ESAIM: Mathematical Modelling and Numerical Analysis, 1985, 19, 611-643.	1.9	160
11	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
12	An adaptive finite element method for linear elliptic problems. Mathematics of Computation, 1988, 50, 361-383.	2.1	139
13	On the convergence of a mixed finite-element method for plate bending problems. Numerische Mathematik, 1973, 21, 43-62.	1.9	120
14	Adaptive streamline diffusion finite element methods for stationary convection-diffusion problems. Mathematics of Computation, 1993, 60, 167-188.	2.1	104
15	Numerics and Hydrodynamic Stability: Toward Error Control in Computational Fluid Dynamics. SIAM Journal on Numerical Analysis, 1995, 32, 1058-1079.	2.3	100
16	Adaptive finite element methods for diffusion and convection problems. Computer Methods in Applied Mechanics and Engineering, 1990, 82, 301-322.	6.6	94
17	On the convergence of a finite element method for a nonlinear hyperbolic conservation law. Mathematics of Computation, 1987, 49, 427-444.	2.1	93
18	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

#	Article	IF	Citations
19	Error Estimates and Automatic Time Step Control for Nonlinear Parabolic Problems, I. SIAM Journal on Numerical Analysis, 1987, 24, 12-23.	2.3	74
20	An a Posteriori Error Estimate and Adaptive Timestep Control for a Backward Euler Discretization of a Parabolic Problem. SIAM Journal on Numerical Analysis, 1990, 27, 277-291.	2.3	70
21	Adaptive Finite Element Methods for Parabolic Problems V: Long-Time Integration. SIAM Journal on Numerical Analysis, 1995, 32, 1750-1763.	2.3	67
22	Adaptive Finite Element Methods for Parabolic Problems VI: Analytic Semigroups. SIAM Journal on Numerical Analysis, 1998, 35, 1315-1325.	2.3	63
23	ADAPTIVE FINITE ELEMENT METHODS FOR THE OBSTACLE PROBLEM. Mathematical Models and Methods in Applied Sciences, 1992, 02, 483-487.	3.3	56
24	Convergence of a Fully Discrete Scheme for Two-Dimensional Neutron Transport. SIAM Journal on Numerical Analysis, 1983, 20, 951-966.	2.3	54
25	A POSTERIORI ERROR ESTIMATION IN COMPUTATIONAL INVERSE SCATTERING. Mathematical Models and Methods in Applied Sciences, 2005, 15, 23-35.	3.3	49
26	A new approach to algorithms for convection problems which are based on exact transport + projection. Computer Methods in Applied Mechanics and Engineering, 1992, 100, 45-62.	6.6	46
27	Adaptive streamline diffusion methods for compressible flow using conservation variables. Computer Methods in Applied Mechanics and Engineering, 1991, 87, 267-280.	6.6	41
28	Adaptive finite element methods for conservation laws. Lecture Notes in Mathematics, 1998, , 269-323.	0.2	16
29	Stability of the dual Navierâ€“Stokes equations and efficient computation of mean output in turbulent flow using adaptive DNS/LES. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1709-1721.	6.6	15
30	Adaptive Finite Element Methods for Small Strain Elasto-Plasticity. , 1992, , 273-288.		14
31	THE POINTWISE COMPUTABILITY OF THE LORENZ SYSTEM. Mathematical Models and Methods in Applied Sciences, 1998, 08, 1277-1305.	3.3	12
32	On Error Control in CFD. , 1994, , 133-144.		8
33	Uniform Numerical Methods for Problems with Initial and Boundary Layers (E. P. Doolan, J. J. H. Miller) Tj ETQq1 1 0.784314 rgBT /Ove	9.5	3
34	Subgrid modeling for convectionâ€“diffusionâ€“reaction in one space dimension using a Haar Multiresolution analysis. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 19-44.	6.6	3
35	COMPUTATIONAL MODELING OF DYNAMICAL SYSTEMS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 471-481.	3.3	2
36	Streamline Diffusion Finite Element Methods for Incompressible and Compressible Fluid Flow. The IMA Volumes in Mathematics and Its Applications, 1988, , 87-106.	0.5	2

#	Article	IF	Citations
37	Adaptive Finite Element Methods for Turbulent Flow. , 2004, , 430-439.		1