

Bernardo Cockburn

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/519331/bernardo-cockburn-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160
papers

16,444
citations

52
h-index

127
g-index

161
ext. papers

18,132
ext. citations

2.6
avg, IF

6.9
L-index

#	Paper	IF	Citations
160	Discontinuous Galerkin methods through the lens of variational multiscale analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 388, 114220	5.7	0
159	An adjoint-based adaptive error approximation of functionals by the hybridizable discontinuous Galerkin method for second-order elliptic equations. <i>Journal of Computational Physics</i> , 2022 , 457, 111078	4.1	0
158	An adjoint-based super-convergent Galerkin approximation of eigenvalues. <i>Journal of Computational Physics</i> , 2021 , 449, 110816	4.1	
157	Symplectic Hamiltonian finite element methods for linear elastodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 381, 113843	5.7	4
156	Interpolatory HDG Method for Parabolic Semilinear PDEs. <i>Journal of Scientific Computing</i> , 2019 , 79, 1777-1800	2.3	15
155	An algorithm for stabilizing hybridizable discontinuous Galerkin methods for nonlinear elasticity. <i>Results in Applied Mathematics</i> , 2019 , 1, 100001	1.7	6
154	Superconvergent Interpolatory HDG Methods for Reaction Diffusion Equations I: An HDG(k) Method. <i>Journal of Scientific Computing</i> , 2019 , 81, 2188-2212	2.3	6
153	Stormer-Numerov HDG Methods for Acoustic Waves. <i>Journal of Scientific Computing</i> , 2018 , 75, 597-624	2.3	17
152	Supercloseness of Primal-Dual Galerkin Approximations for Second Order Elliptic Problems. <i>Journal of Scientific Computing</i> , 2018 , 75, 376-394	2.3	2
151	Discrete H^1 -Inequalities for Spaces Admitting M-Decompositions. <i>SIAM Journal on Numerical Analysis</i> , 2018 , 56, 3407-3429	2.4	3
150	Superconvergence by M-decompositions. Part II: Construction of two-dimensional finite elements. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 165-186	1.8	23
149	Superconvergence by M-decompositions. Part III: Construction of three-dimensional finite elements. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 365-398	1.8	26
148	A Systematic Construction of Finite Element Commuting Exact Sequences. <i>SIAM Journal on Numerical Analysis</i> , 2017 , 55, 1650-1688	2.4	13
147	Symplectic Hamiltonian HDG methods for wave propagation phenomena. <i>Journal of Computational Physics</i> , 2017 , 350, 951-973	4.1	16
146	Adjoint-Based, Superconvergent Galerkin Approximations of Linear Functionals. <i>Journal of Scientific Computing</i> , 2017 , 73, 644-666	2.3	6
145	Hybridizable discontinuous Galerkin and mixed finite element methods for elliptic problems on surfaces. <i>Mathematics of Computation</i> , 2016 , 85, 2609-2638	1.6	7
144	Superconvergent HDG methods for linear, stationary, third-order equations in one-space dimension. <i>Mathematics of Computation</i> , 2016 , 85, 2715-2742	1.6	18

143	HDG Methods for Hyperbolic Problems. <i>Handbook of Numerical Analysis</i> , 2016 , 173-197	1	3
142	Convergence and superconvergence analyses of HDG methods for time fractional diffusion problems. <i>Advances in Computational Mathematics</i> , 2016 , 42, 377-393	1.6	23
141	A Hybridizable Discontinuous Galerkin Method for the \mathbb{P}_k -Laplacian. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A545-A566	2.6	21
140	An explicit hybridizable discontinuous Galerkin method for the acoustic wave equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 300, 748-769	5.7	38
139	The Staggered DG Method is the Limit of a Hybridizable DG Method. Part II: The Stokes Flow. <i>Journal of Scientific Computing</i> , 2016 , 66, 870-887	2.3	10
138	A note on the devising of superconvergent HDG methods for Stokes flow by M -decompositions. <i>IMA Journal of Numerical Analysis</i> , 2016 , drw029	1.8	1
137	Bridging the hybrid high-order and hybridizable discontinuous Galerkin methods. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016 , 50, 635-650	1.8	97
136	Superconvergence by M -decompositions. Part I: General theory for HDG methods for diffusion. <i>Mathematics of Computation</i> , 2016 , 86, 1609-1641	1.6	35
135	Analysis of a hybridizable discontinuous Galerkin method for the steady-state incompressible Navier-Stokes equations. <i>Mathematics of Computation</i> , 2016 , 86, 1643-1670	1.6	43
134	A new discontinuous Galerkin method, conserving the discrete H^2 -norm, for third-order linear equations in one space dimension. <i>IMA Journal of Numerical Analysis</i> , 2016 , 36, 1570-1598	1.8	8
133	Static Condensation, Hybridization, and the Devising of the HDG Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2016 , 129-177	0.3	24
132	A phase-based hybridizable discontinuous Galerkin method for the numerical solution of the Helmholtz equation. <i>Journal of Computational Physics</i> , 2015 , 290, 318-335	4.1	26
131	Contraction property of adaptive hybridizable discontinuous Galerkin methods. <i>Mathematics of Computation</i> , 2015 , 85, 1113-1141	1.6	9
130	A class of embedded discontinuous Galerkin methods for computational fluid dynamics. <i>Journal of Computational Physics</i> , 2015 , 302, 674-692	4.1	26
129	A hybridizable discontinuous Galerkin formulation for non-linear elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 283, 303-329	5.7	45
128	Analysis of an HDG method for linear elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 551-575	2.4	23
127	A hybridizable discontinuous Galerkin method for fractional diffusion problems. <i>Numerische Mathematik</i> , 2015 , 130, 293-314	2.2	34
126	An adaptive spectral/DG method for a reduced phase-space based level set approach to geometrical optics on curved elements. <i>Journal of Computational Physics</i> , 2014 , 259, 636-649	4.1	

125	The Staggered DG Method is the Limit of a Hybridizable DG Method. <i>SIAM Journal on Numerical Analysis</i> , 2014 , 52, 915-932	2.4	28
124	Solving Convection-Diffusion Problems on Curved Domains by Extensions from Subdomains. <i>Journal of Scientific Computing</i> , 2014 , 59, 512-543	2.3	18
123	Multigrid for an HDG method. <i>IMA Journal of Numerical Analysis</i> , 2014 , 34, 1386-1425	1.8	36
122	Devising methods for Stokes flow: An overview. <i>Computers and Fluids</i> , 2014 , 98, 221-229	2.8	31
121	Divergence-conforming HDG methods for Stokes flows. <i>Mathematics of Computation</i> , 2014 , 83, 1571-1598	2.6	49
120	Analysis of HDG Methods for Oseen Equations. <i>Journal of Scientific Computing</i> , 2013 , 55, 392-431	2.3	36
119	A priori error analysis for HDG methods using extensions from subdomains to achieve boundary conformity. <i>Mathematics of Computation</i> , 2013 , 83, 665-699	1.6	27
118	Analysis of variable-degree HDG methods for Convection-Diffusion equations. Part II: Semimatching nonconforming meshes. <i>Mathematics of Computation</i> , 2013 , 83, 87-111	1.6	23
117	A Posteriori Error Analysis for Hybridizable Discontinuous Galerkin Methods for Second Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2013 , 51, 676-693	2.4	26
116	A space-time discontinuous Galerkin method for the incompressible Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2013 , 233, 339-358	4.1	62
115	Uniform-in-time superconvergence of the HDG methods for the acoustic wave equation. <i>Mathematics of Computation</i> , 2013 , 83, 65-85	1.6	23
114	An a posteriori error estimate for the variable-degree Raviart-Thomas method. <i>Mathematics of Computation</i> , 2013 , 83, 1063-1082	1.6	12
113	Superconvergent HDG methods for linear elasticity with weakly symmetric stresses. <i>IMA Journal of Numerical Analysis</i> , 2013 , 33, 747-770	1.8	46
112	A space-time hybridizable discontinuous Galerkin method for incompressible flows on deforming domains. <i>Journal of Computational Physics</i> , 2012 , 231, 4185-4204	4.1	65
111	A projection-based error analysis of HDG methods for Timoshenko beams. <i>Mathematics of Computation</i> , 2012 , 81, 131-151	1.6	15
110	An analysis of HDG methods for the vorticity-velocity-pressure formulation of the Stokes problem in three dimensions. <i>Mathematics of Computation</i> , 2012 , 81, 1355-1368	1.6	21
109	Superconvergent HDG Methods on Isoparametric Elements for Second-Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2012 , 50, 1417-1432	2.4	23
108	Coupling of Raviart-Thomas and Hybridizable Discontinuous Galerkin Methods with BEM. <i>SIAM Journal on Numerical Analysis</i> , 2012 , 50, 2778-2801	2.4	9

107	Solving Dirichlet Boundary-value Problems on Curved Domains by Extensions from Subdomains. <i>SIAM Journal of Scientific Computing</i> , 2012 , 34, A497-A519	2.6	24
106	To CG or to HDG: A Comparative Study. <i>Journal of Scientific Computing</i> , 2012 , 51, 183-212	2.3	113
105	A Posteriori Error Estimates for HDG Methods. <i>Journal of Scientific Computing</i> , 2012 , 51, 582-607	2.3	33
104	Divergence-Free HDG Methods for the Vorticity-Velocity Formulation of the Stokes Problem. <i>Journal of Scientific Computing</i> , 2012 , 52, 256-270	2.3	11
103	Analysis of variable-degree HDG methods for convection-diffusion equations. Part I: general nonconforming meshes. <i>IMA Journal of Numerical Analysis</i> , 2012 , 32, 1267-1293	1.8	44
102	The devising of symmetric couplings of boundary element and discontinuous Galerkin methods. <i>IMA Journal of Numerical Analysis</i> , 2012 , 32, 765-794	1.8	10
101	Uniform-in-time superconvergence of HDG methods for the heat equation. <i>Mathematics of Computation</i> , 2012 , 81, 107-129	1.6	39
100	Conditions for superconvergence of HDG methods for second-order elliptic problems. <i>Mathematics of Computation</i> , 2012 , 81, 1327-1353	1.6	74
99	Coupling at a Distance HDG and BEM. <i>SIAM Journal of Scientific Computing</i> , 2012 , 34, A28-A47	2.6	9
98	Conditions for superconvergence of HDG methods for Stokes flow. <i>Mathematics of Computation</i> , 2012 , 82, 651-671	1.6	25
97	Local a posteriori error estimates for time-dependent Hamilton-Jacobi equations. <i>Mathematics of Computation</i> , 2012 , 82, 187-212	1.6	1
96	Hybridizable discontinuous Galerkin methods for the time-harmonic Maxwell equations. <i>Journal of Computational Physics</i> , 2011 , 230, 7151-7175	4.1	81
95	An implicit high-order hybridizable discontinuous Galerkin method for the incompressible Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2011 , 230, 1147-1170	4.1	159
94	High-order implicit hybridizable discontinuous Galerkin methods for acoustics and elastodynamics. <i>Journal of Computational Physics</i> , 2011 , 230, 3695-3718	4.1	98
93	Analysis of HDG methods for Stokes flow. <i>Mathematics of Computation</i> , 2011 , 80, 723-723	1.6	114
92	A projection-based error analysis of HDG methods. <i>Mathematics of Computation</i> , 2010 , 79, 1351-1367	1.6	148
91	A new elasticity element made for enforcing weak stress symmetry. <i>Mathematics of Computation</i> , 2010 , 79, 1331-1349	1.6	73
90	Optimal Convergence of the Original DG Method on Special Meshes for Variable Transport Velocity. <i>SIAM Journal on Numerical Analysis</i> , 2010 , 48, 133-146	2.4	16

89	Hybridization and Postprocessing Techniques for Mixed Eigenfunctions. <i>SIAM Journal on Numerical Analysis</i> , 2010 , 48, 857-881	2.4	9
88	A hybridizable discontinuous Galerkin method for Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 582-597	5.7	130
87	Boundary-Conforming Discontinuous Galerkin Methods via Extensions from Subdomains. <i>Journal of Scientific Computing</i> , 2010 , 42, 144-184	2.3	17
86	Hybridizable Discontinuous Galerkin Methods for Timoshenko Beams. <i>Journal of Scientific Computing</i> , 2010 , 44, 1-37	2.3	19
85	A Comparison of HDG Methods for Stokes Flow. <i>Journal of Scientific Computing</i> , 2010 , 45, 215-237	2.3	59
84	Superconvergent discontinuous Galerkin methods for second-order elliptic problems. <i>Mathematics of Computation</i> , 2009 , 78, 1-1	1.6	106
83	A hybridizable discontinuous Galerkin method for linear elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 80, 1058-1092	2.4	73
82	An implicit high-order hybridizable discontinuous Galerkin method for linear convection-diffusion equations. <i>Journal of Computational Physics</i> , 2009 , 228, 3232-3254	4.1	210
81	An Equal-Order DG Method for the Incompressible Navier-Stokes Equations. <i>Journal of Scientific Computing</i> , 2009 , 40, 188-210	2.3	37
80	A Hybridizable and Superconvergent Discontinuous Galerkin Method for Biharmonic Problems. <i>Journal of Scientific Computing</i> , 2009 , 40, 141-187	2.3	43
79	Local derivative post-processing for the discontinuous Galerkin method. <i>Journal of Computational Physics</i> , 2009 , 228, 8642-8664	4.1	25
78	An implicit high-order hybridizable discontinuous Galerkin method for nonlinear convection-diffusion equations. <i>Journal of Computational Physics</i> , 2009 , 228, 8841-8855	4.1	155
77	Unified Hybridization of Discontinuous Galerkin, Mixed, and Continuous Galerkin Methods for Second Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 1319-1365	2.4	634
76	An Analysis of the Embedded Discontinuous Galerkin Method for Second-Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 2686-2707	2.4	41
75	The Derivation of Hybridizable Discontinuous Galerkin Methods for Stokes Flow. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 1092-1125	2.4	78
74	A Hybridizable Discontinuous Galerkin Method for Steady-State Convection-Diffusion-Reaction Problems. <i>SIAM Journal of Scientific Computing</i> , 2009 , 31, 3827-3846	2.6	111
73	Optimal Convergence of the Original DG Method for the Transport-Reaction Equation on Special Meshes. <i>SIAM Journal on Numerical Analysis</i> , 2008 , 46, 1250-1265	2.4	55
72	Error Estimates for the Runge-Kutta Discontinuous Galerkin Method for the Transport Equation with Discontinuous Initial Data. <i>SIAM Journal on Numerical Analysis</i> , 2008 , 46, 1364-1398	2.4	20

71	A superconvergent LDG-hybridizable Galerkin method for second-order elliptic problems. <i>Mathematics of Computation</i> , 2008 , 77, 1887-1916	1.6	158
70	The Computation of a Locally Conservative Stress for the Continuous Galerkin Method for Compressible Linearly Elastic Materials. <i>Journal of Scientific Computing</i> , 2008 , 36, 151-163	2.3	1
69	The embedded discontinuous Galerkin method: application to linear shell problems. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 70, 757-790	2.4	47
68	An adaptive high-order discontinuous Galerkin method with error control for the Hamilton-Jacobi equations. Part I: The one-dimensional steady state case. <i>Journal of Computational Physics</i> , 2007 , 226, 1027-1058	4.1	3
67	A Note on Discontinuous Galerkin Divergence-free Solutions of the Navier-Stokes Equations. <i>Journal of Scientific Computing</i> , 2007 , 31, 61-73	2.3	145
66	Adjoint Recovery of Superconvergent Linear Functionals from Galerkin Approximations. The One-dimensional Case. <i>Journal of Scientific Computing</i> , 2007 , 32, 201-232	2.3	3
65	An Analysis of the Minimal Dissipation Local Discontinuous Galerkin Method for Convection-Diffusion Problems. <i>Journal of Scientific Computing</i> , 2007 , 32, 233-262	2.3	62
64	Superconvergence of the numerical traces of discontinuous Galerkin and Hybridized methods for convection-diffusion problems in one space dimension. <i>Mathematics of Computation</i> , 2007 , 76, 67-97	1.6	76
63	Locally Conservative Fluxes for the Continuous Galerkin Method. <i>SIAM Journal on Numerical Analysis</i> , 2007 , 45, 1742-1776	2.4	50
62	Locking-Free Optimal Discontinuous Galerkin Methods for Timoshenko Beams. <i>SIAM Journal on Numerical Analysis</i> , 2006 , 44, 2297-2325	2.4	25
61	Stabilization mechanisms in discontinuous Galerkin finite element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 3293-3310	5.7	94
60	Discontinuous Galerkin methods for incompressible elastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 3184-3204	5.7	42
59	Design and development of a discontinuous Galerkin method for shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 3528-3548	5.7	19
58	Element-by-Element Post-Processing of Discontinuous Galerkin Methods for Timoshenko Beams. <i>Journal of Scientific Computing</i> , 2006 , 27, 177-187	2.3	9
57	Hybridized globally divergence-free LDG methods. Part I: The Stokes problem. <i>Mathematics of Computation</i> , 2005 , 75, 533-564	1.6	57
56	Incompressible Finite Elements via Hybridization. Part I: The Stokes System in Two Space Dimensions. <i>SIAM Journal on Numerical Analysis</i> , 2005 , 43, 1627-1650	2.4	47
55	Incompressible Finite Elements via Hybridization. Part II: The Stokes System in Three Space Dimensions. <i>SIAM Journal on Numerical Analysis</i> , 2005 , 43, 1651-1672	2.4	35
54	An accurate spectral/discontinuous finite-element formulation of a phase-space-based level set approach to geometrical optics. <i>Journal of Computational Physics</i> , 2005 , 208, 175-195	4.1	24

53	An adaptive method with rigorous error control for the Hamilton-Jacobi equations. Part II: The two-dimensional steady-state case. <i>Journal of Computational Physics</i> , 2005 , 209, 391-405	4.1	1
52	The local discontinuous Galerkin method for linearized incompressible fluid flow: a review. <i>Computers and Fluids</i> , 2005 , 34, 491-506	2.8	41
51	An adaptive method with rigorous error control for the Hamilton-Jacobi equations. Part I: The one-dimensional steady state case. <i>Applied Numerical Mathematics</i> , 2005 , 52, 175-195	2.5	7
50	An A Posteriori Error Estimate for the Local Discontinuous Galerkin Method Applied to Linear and Nonlinear Diffusion Problems. <i>Journal of Scientific Computing</i> , 2005 , 22-23, 147-185	2.3	43
49	High-order RKDG Methods for Computational Electromagnetics. <i>Journal of Scientific Computing</i> , 2005 , 22-23, 205-226	2.3	56
48	A Mixed Finite Element Method for Elasticity in Three Dimensions. <i>Journal of Scientific Computing</i> , 2005 , 25, 515-521	2.3	65
47	Error analysis of variable degree mixed methods for elliptic problems via hybridization. <i>Mathematics of Computation</i> , 2005 , 74, 1653-1678	1.6	32
46	Locally divergence-free discontinuous Galerkin methods for the Maxwell equations. <i>Journal of Computational Physics</i> , 2004 , 194, 588-610	4.1	201
45	A Characterization of Hybridized Mixed Methods for Second Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2004 , 42, 283-301	2.4	101
44	Discontinuous Galerkin methods. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2003 , 83, 731-754	1	140
43	Continuous dependence and error estimation for viscosity methods. <i>Acta Numerica</i> , 2003 , 12, 127-180	15.1	20
42	Approximation of the Velocity by Coupling Discontinuous Galerkin and Mixed Finite Element Methods for Flow Problems. <i>Computational Geosciences</i> , 2002 , 6, 505-522	2.7	27
41	Enhanced accuracy by post-processing for finite element methods for hyperbolic equations. <i>Mathematics of Computation</i> , 2002 , 72, 577-607	1.6	101
40	Unified Analysis of Discontinuous Galerkin Methods for Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2002 , 39, 1749-1779	2.4	2018
39	Local Discontinuous Galerkin Methods for the Stokes System. <i>SIAM Journal on Numerical Analysis</i> , 2002 , 40, 319-343	2.4	180
38	A posteriori error estimates for general numerical methods for Hamilton-Jacobi equations. Part I: The steady state case. <i>Mathematics of Computation</i> , 2001 , 71, 49-77	1.6	11
37	Devising discontinuous Galerkin methods for non-linear hyperbolic conservation laws. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 128, 187-204	2.4	54
36	Continuous Dependence on the Nonlinearity of Viscosity Solutions of Parabolic Equations. <i>Journal of Differential Equations</i> , 2001 , 170, 180-187	2.1	5

35	Local discontinuous Galerkin methods for elliptic problems. <i>Communications in Numerical Methods in Engineering</i> , 2001 , 18, 69-75		8
34	Runge-Kutta Discontinuous Galerkin Methods for Convection-Dominated Problems. <i>Journal of Scientific Computing</i> , 2001 , 16, 173-261	2.3	1147
33	Superconvergence of the Local Discontinuous Galerkin Method for Elliptic Problems on Cartesian Grids. <i>SIAM Journal on Numerical Analysis</i> , 2001 , 39, 264-285	2.4	198
32	The local discontinuous Galerkin method for contaminant transport. <i>Advances in Water Resources</i> , 2000 , 24, 73-87	4.7	63
31	An A Priori Error Analysis of the Local Discontinuous Galerkin Method for Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2000 , 38, 1676-1706	2.4	346
30	Continuous Dependence on the Nonlinearities of Solutions of Degenerate Parabolic Equations. <i>Journal of Differential Equations</i> , 1999 , 151, 231-251	2.1	56
29	The Runge-Kutta Discontinuous Galerkin Method for Conservation Laws V. <i>Journal of Computational Physics</i> , 1998 , 141, 199-224	4.1	1425
28	A Priori Error Estimates for Numerical Methods for Scalar Conservation Laws Part III: Multidimensional Flux-Splitting Monotone Schemes on Non-Cartesian Grids. <i>SIAM Journal on Numerical Analysis</i> , 1998 , 35, 1775-1803	2.4	22
27	The Local Discontinuous Galerkin Method for Time-Dependent Convection-Diffusion Systems. <i>SIAM Journal on Numerical Analysis</i> , 1998 , 35, 2440-2463	2.4	1506
26	Estimating the number of asymptotic degrees of freedom for nonlinear dissipative systems. <i>Mathematics of Computation</i> , 1997 , 66, 1073-1088	1.6	57
25	A priori error estimates for numerical methods for scalar conservation laws. Part II : flux-splitting monotone schemes on irregular Cartesian grids. <i>Mathematics of Computation</i> , 1997 , 66, 547-573	1.6	18
24	A Model Numerical Scheme for the Propagation of phase Transitions in Solids. <i>SIAM Journal of Scientific Computing</i> , 1996 , 17, 1092-1121	2.6	26
23	A priori error estimates for numerical methods for scalar conservation laws. Part I: The general approach. <i>Mathematics of Computation</i> , 1996 , 65, 533-574	1.6	36
22	On Convergence to Entropy Solutions of a Single Conservation Law. <i>Journal of Differential Equations</i> , 1996 , 128, 206-251	2.1	17
21	Error Estimates for Finite Element Methods for Scalar Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 1996 , 33, 522-554	2.4	79
20	Mixed-RKDG Finite Element Methods for the 2-D Hydrodynamic Model for Semiconductor Device Simulation. <i>VLSI Design</i> , 1995 , 3, 145-158		42
19	Convergence of the Finite Volume Method for Multidimensional Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 1995 , 32, 687-705	2.4	64
18	Quantum Hydrodynamic Simulation of Hysteresis in the Resonant Tunneling Diode. <i>Journal of Computational Physics</i> , 1995 , 117, 274-280	4.1	76

17	Analysis of a finite element method for the drift-diffusion semiconductor device equations: the multidimensional case. <i>Numerische Mathematik</i> , 1995 , 71, 1-28	2.2	21
16	Error Estimates for a Finite Element Method for the Drift Diffusion Semiconductor Device Equations. <i>SIAM Journal on Numerical Analysis</i> , 1994 , 31, 1062-1089	2.4	7
15	Nonlinearly Stable Compact Schemes for Shock Calculations. <i>SIAM Journal on Numerical Analysis</i> , 1994 , 31, 607-627	2.4	88
14	An error estimate for finite volume methods for multidimensional conservation laws. <i>Mathematics of Computation</i> , 1994 , 63, 77-77	1.6	58
13	Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case. <i>Mathematics of Computation</i> , 1992 , 59, 383	1.6	8
12	On the continuity in $\{\text{rm BV}\}(\Omega)$ of the L^2 -projection into finite element spaces. <i>Mathematics of Computation</i> , 1991 , 57, 551-551	1.6	
11	Quasimonotone Schemes for Scalar Conservation Laws. Part III. <i>SIAM Journal on Numerical Analysis</i> , 1990 , 27, 259-276	2.4	2
10	The Runge-Kutta local projection discontinuous Galerkin finite element method for conservation laws. IV. The multidimensional case. <i>Mathematics of Computation</i> , 1990 , 54, 545-545	1.6	18
9	The Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws. IV: The Multidimensional Case. <i>Mathematics of Computation</i> , 1990 , 54, 545	1.6	778
8	Quasimonotone Schemes for Scalar Conservation Laws. Part II. <i>SIAM Journal on Numerical Analysis</i> , 1990 , 27, 247-258	2.4	4
7	TVB Runge-Kutta local projection discontinuous Galerkin finite element method for conservation laws. II. General framework. <i>Mathematics of Computation</i> , 1989 , 52, 411-411	1.6	33
6	Numerical solution of Maxwell's equations in a conductive and polarizable medium. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1989 , 75, 11-25	5.7	2
5	TVB Runge-Kutta local projection discontinuous Galerkin finite element method for conservation laws III: One-dimensional systems. <i>Journal of Computational Physics</i> , 1989 , 84, 90-113	4.1	946
4	Quasimonotone Schemes for Scalar Conservation Laws Part I. <i>SIAM Journal on Numerical Analysis</i> , 1989 , 26, 1325-1341	2.4	16
3	TVB Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws II: General Framework. <i>Mathematics of Computation</i> , 1989 , 52, 411	1.6	1188
2	The pursuit of a dream, Francisco Javier Sayas and the HDG methods. <i>SeMA Journal</i> , 1	1.2	1
1	Superconvergent Interpolatory HDG Methods for Reaction Diffusion Equations II: HHO-Inspired Methods. <i>Communications on Applied Mathematics and Computation</i> , 1	0.9	