Jaime Peraire

List of Publications by Year
in descending order

211 papers	10,671 citations	44069 48 h-index	39675 94 g-index
214 all docs	214 docs citations	214 times ranked	4266 citing authors

#	Article	IF	Citations
1	An HDG method for dissimilar meshes. IMA Journal of Numerical Analysis, 2022, 42, 1665-1699.	2.9	9
2	Large-Eddy Simulation of Transonic Buffet Using Matrix-Free Discontinuous Galerkin Method. AIAA Journal, 2022, 60, 3060-3077.	2.6	8
3	Symplectic Hamiltonian finite element methods for electromagnetics. Computer Methods in Applied Mechanics and Engineering, 2022, 396, 114969.	6.6	3
4	A nested hybridizable discontinuous Galerkin method for computing second-harmonic generation in three-dimensional metallic nanostructures. Journal of Computational Physics, 2021, 429, 110000.	3.8	7
5	Symplectic Hamiltonian finite element methods for linear elastodynamics. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113843.	6.6	9
6	A posteriori goal-oriented bounds for the Poisson problem using potential and equilibrated flux reconstructions: Application to the hybridizable discontinuous Galerkin method. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114088.	6.6	1
7	GPU-accelerated Large Eddy Simulation of Hypersonic Flows. , 2020, , .		8
8	Wall-resolved implicit large eddy simulation of transonic buffet over the OAT15A airfoil using a discontinuous Galerkin method. , 2020, , .		4
9	Implicit hybridized discontinuous Galerkin methods for compressible magnetohydrodynamics. Journal of Computational Physics: X, 2020, 5, 100042.	0.7	6
10	Impact of Surface Roughness in Nanogap Plasmonic Systems. ACS Photonics, 2020, 7, 908-913.	6.6	25
11	Aircraft Charging and its Influence on Triggered Lightning. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031245.	3.3	18
12	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. Optics Express, 2020, 28, 8701.	3.4	4
13	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. Nature Communications, 2019, 10, 4476.	12.8	26
14	Non-modal analysis of spectral element methods: Towards accurate and robust large-eddy simulations. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 43-62.	6.6	29
15	A hybridizable discontinuous Galerkin method for both thin and 3D nonlinear elastic structures. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 561-585.	6.6	12
16	A multiscale continuous Galerkin method for stochastic simulation and robust design of photonic crystals. Journal of Computational Physics: X, 2019, 2, 100016.	0.7	0
17	High-Contrast Infrared Absorption Spectroscopy via Mass-Produced Coaxial Zero-Mode Resonators with Sub-10 nm Gaps. Nano Letters, 2018, 18, 1930-1936.	9.1	88
18	A physics-based shock capturing method for unsteady laminar and turbulent flows. , 2018, , .		15

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19	Charge Control Strategy for Aircraft-Triggered Lightning Strike Risk Reduction. AIAA Journal, 2018, 56, 1988-2002.	2.6	16
20	A hybridizable discontinuous Galerkin method for computing nonlocal electromagnetic effects in three-dimensional metallic nanostructures. Journal of Computational Physics, 2018, 355, 548-565.	3.8	25
21	Accelerated Residual Methods for the Iterative Solution of Systems of Equations. SIAM Journal of Scientific Computing, 2018, 40, A3157-A3179.	2.8	4
22	Hybridized Discontinuous Galerkin Methods for Wave Propagation. Journal of Scientific Computing, 2018, 77, 1566-1604.	2.3	14
23	Computing parametrized solutions for plasmonic nanogap structures. Journal of Computational Physics, 2018, 366, 89-106.	3.8	13
24	Surface-Enhanced Infrared Absorption Spectroscopy via Coaxial Zero-Mode Resonators with Sub-10-nm Gaps. , 2018, , .		0
25	The hybridized Discontinuous Galerkin method for Implicit Large-Eddy Simulation of transitional turbulent flows. Journal of Computational Physics, 2017, 336, 308-329.	3.8	60
26	Mesh Topology Preserving Boundary-Layer Adaptivity Method for Steady Viscous Flows. AIAA Journal, 2017, 55, 1970-1985.	2.6	4
27	Subgrid-scale modeling and implicit numerical dissipation in DG-based Large-Eddy Simulation. , 2017, , .		16
28	Symplectic Hamiltonian HDG methods for wave propagation phenomena. Journal of Computational Physics, 2017, 350, 951-973.	3.8	27
29	Computational study of glow corona discharge in wind: Biased conductor. Journal of Electrostatics, 2017, 89, 1-12.	1.9	13
30	Functional Regression for State Prediction Using Linear PDE Models and Observations. SIAM Journal of Scientific Computing, 2016, 38, B247-B271.	2.8	4
31	Arc reattachment driven by a turbulent boundary layer: implications for the sweeping of lightning arcs along aircraft. Journal Physics D: Applied Physics, 2016, 49, 375204.	2.8	5
32	An Empirical Interpolation and Model-Variance Reduction Method for Computing Statistical Outputs of Parametrized Stochastic Partial Differential Equations. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 244-265.	2.0	5
33	HDG Methods for Hyperbolic Problems. Handbook of Numerical Analysis, 2016, , 173-197.	1.8	7
34	A distortion measure to validate and generate curved high€order meshes on CAD surfaces with independence of parameterization. International Journal for Numerical Methods in Engineering, 2016, 106, 1100-1130.	2.8	25
35	Dilation€based shock capturing for high€order methods. International Journal for Numerical Methods in Fluids, 2016, 82, 398-416.	1.6	34
36	High-Throughput Fabrication of Resonant Metamaterials with Ultrasmall Coaxial Apertures via Atomic Layer Lithography. Nano Letters, 2016, 16, 2040-2046.	9.1	84

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37	Gaussian functional regression for output prediction: Model assimilation and experimental design. Journal of Computational Physics, 2016, 309, 52-68.	3.8	11
38	An explicit hybridizable discontinuous Galerkin method for the acoustic wave equation. Computer Methods in Applied Mechanics and Engineering, 2016, 300, 748-769.	6.6	44
39	Implicit large-eddy simulation of compressible flows using the Interior Embedded Discontinuous Galerkin method. , 2016, , .		15
40	Optimization of a regularized distortion measure to generate curved highâ€order unstructured tetrahedral meshes. International Journal for Numerical Methods in Engineering, 2015, 103, 342-363.	2.8	65
41	A model and variance reduction method for computing statistical outputs of stochastic elliptic partial differential equations. Journal of Computational Physics, 2015, 297, 700-720.	3.8	20
42	Gaussian functional regression for linear partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 69-89.	6.6	8
43	Nanogap-Enhanced Terahertz Sensing of 1 nm Thick ($Î»/10^6$) Dielectric Films. ACS Photonics, 2015, 2, 417-424.	6.6	85
44	A phase-based hybridizable discontinuous Galerkin method for the numerical solution of the Helmholtz equation. Journal of Computational Physics, 2015, 290, 318-335.	3.8	30
45	A class of embedded discontinuous Galerkin methods for computational fluid dynamics. Journal of Computational Physics, 2015, 302, 674-692.	3.8	36
46	Distortion and quality measures for validating and generating high-order tetrahedral meshes. Engineering With Computers, 2015, 31, 423-437.	6.1	36
47	Fabrication-Adaptive Optimization with an Application to Photonic Crystal Design. Operations Research, 2014, 62, 418-434.	1.9	13
48	Robust topology optimization of three-dimensional photonic-crystal band-gap structures. Optics Express, 2014, 22, 22632.	3.4	92
49	Spectral approximations by the HDG method. Mathematics of Computation, 2014, 84, 1037-1059.	2.1	12
50	Defining Quality Measures for Validation and Generation of High-Order Tetrahedral Meshes. , 2014, , 109-126.		15
51	A highâ€order hybridizable discontinuous Galerkin method for elliptic interface problems. International Journal for Numerical Methods in Engineering, 2013, 93, 183-200.	2.8	47
52	Analysis of HDG Methods for Oseen Equations. Journal of Scientific Computing, 2013, 55, 392-431.	2.3	45
53	Efficiency of highâ€order elements for continuous and discontinuous Galerkin methods. International Journal for Numerical Methods in Engineering, 2013, 96, 529-560.	2.8	76
54	Oneâ€dimensional shockâ€capturing for highâ€order discontinuous Galerkin methods. International Journal for Numerical Methods in Fluids, 2013, 71, 737-755.	1.6	23

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55	Defining Quality Measures for Mesh Optimization on Parameterized CAD Surfaces. , 2013, , 85-102.		13
56	Advances in the development of a High Order, Viscous-Inviscid Interaction Solver. , 2013, , .		3
57	A High-Order Self-Adaptive Monolithic Solver for Viscous-Inviscid Interacting Flows. , 2013, , .		1
58	Scalable parallelization of the hybridized discontinuous Galerkin method for compressible flow. , 2013, , .		8
59	Progress Towards an Arbitrarily High-Order, Unstructured, Free-Wake Panel Solver. , 2013, , .		2
60	A Hybridized Multiscale Discontinuous Galerkin Method for Compressible Flows. , 2013, , .		2
61	Designing Phononic Crystals With Convex Optimization. , 2013, , .		2
62	A Time-Spectral Hybridizable Discontinuous Galerkin Method for Periodic Flow Problems. , 2013, , .		5
63	Binary optimization techniques for linear PDE-governed material design. Applied Physics A: Materials Science and Processing, 2012, 109, 1023-1030.	2.3	3
64	Hybridizable discontinuous Galerkin methods for partial differential equations in continuum mechanics. Journal of Computational Physics, 2012, 231, 5955-5988.	3.8	105
65	A hybridized discontinuous Petrov–Galerkin scheme for scalar conservation laws. International Journal for Numerical Methods in Engineering, 2012, 91, 950-970.	2.8	16
66	A note on upper bound formulations in limit analysis. International Journal for Numerical Methods in Engineering, 2012, 91, 896-908.	2.8	13
67	A simple shock–capturing technique for high–order discontinuous Galerkin methods. International Journal for Numerical Methods in Fluids, 2012, 69, 1614-1632.	1.6	65
68	Numerical simulation of flapping wings using a panel method and a high–order Navier–Stokes solver. International Journal for Numerical Methods in Engineering, 2012, 89, 1296-1316.	2.8	27
69	Study of Mobile Mixed Sensing Networks in an Automotive Context. Springer Optimization and Its Applications, 2012, , 165-198.	0.9	0
70	Design of photonic crystals with multiple and combined band gaps. Physical Review E, 2011, 83, 046703.	2.1	28
71	Performance Characterization of Cyclic Blade Pitch Variation on a Vertical Axis Wind Turbine. , 2011, , .		10
72	A Hybridized Discontinuous Petrov-Galerkin Method for Compresible Flows. , 2011, , .		3

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73	An Adaptive Shock-Capturing HDG Method for Compressible Flows. , 2011, , .		18
74	An Embedded Discontinuous Galerkin Method for the Compressible Euler and Navier-Stokes Equations. , 2011, , .		17
75	Navier-Stokes Solution Using Hybridizable Discontinuous Galerkin methods. , 2011, , .		34
76	Preliminary Investigation Into the Effects of Cross-Flow on Low Reynolds Number Transition. , 2011, , .		3
77	GPU-accelerated sparse matrix-vector product for a hybridizable discontinuous Galerkin method. , 2011, , .		6
78	Hybridizable discontinuous Galerkin methods for the time-harmonic Maxwellâ€™s equations. Journal of Computational Physics, 2011, 230, 7151-7175.	3.8	106
79	Hybridizable Discontinuous Galerkin Methods. Lecture Notes in Computational Science and Engineering, 2011, , 63-84.	0.3	34
80	An implicit high-order hybridizable discontinuous Galerkin method for the incompressible Navierâ€"Stokes equations. Journal of Computational Physics, 2011, 230, 1147-1170.	3.8	197
81	Implicit Large Eddy Simulation of transition to turbulence at low Reynolds numbers using a Discontinuous Galerkin method. International Journal for Numerical Methods in Engineering, 2011, 87, 232-261.	2.8	168
82	High-order implicit hybridizable discontinuous Galerkin methods for acoustics and elastodynamics. Journal of Computational Physics, 2011, 230, 3695-3718.	3.8	123
83	Analysis of HDG methods for Stokes flow. Mathematics of Computation, 2011, 80, 723-723.	2.1	133
84	Discontinuous Galerkin methods for the Navierâ€"Stokes equations using solenoidal approximations. International Journal for Numerical Methods in Fluids, 2010, 64, 549-564.	1.6	20
85	A Comparison of HDG Methods for Stokes Flow. Journal of Scientific Computing, 2010, 45, 215-237.	2.3	78
86	A variationally consistent mesh adaptation method for triangular elements in explicit Lagrangian dynamics. International Journal for Numerical Methods in Engineering, 2010, 82, 1073-1113.	2.8	19
87	Bandgap optimization of two-dimensional photonic crystals using semidefinite programming and subspace methods. Journal of Computational Physics, 2010, 229, 3706-3725.	3.8	39
88	A discontinuous Galerkin front tracking method for two-phase flows with surface tension. Computers and Fluids, 2010, 39, 1-14.	2.5	27
89	Hybridization and Postprocessing Techniques for Mixed Eigenfunctions. SIAM Journal on Numerical Analysis, 2010, 48, 857-881.	2.3	14
90	A hybridizable discontinuous Galerkin method for Stokes flow. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 582-597.	6.6	164

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91	A Hybridizable Discontinuous Galerkin Method for the Incompressible Navier-Stokes Equations. , 2010, , .		25
92	A Hybridizable Discontinuous Galerkin Method for the Compressible Euler and Navier-Stokes Equations. , 2010, , .		62
93	The Numerical Simulation of Flapping Wings at Low Reynolds Numbers. , 2010, , .		20
94	A Low Order Model for Vertical Axis Wind Turbines. , 2010, , .		9
95	Upper and lower bounds in limit analysis: Adaptive meshing strategies and discontinuous loading. International Journal for Numerical Methods in Engineering, 2009, 77, 471-501.	2.8	86
96	An implicit high-order hybridizable discontinuous Galerkin method for linear convection–diffusion equations. Journal of Computational Physics, 2009, 228, 3232-3254.	3.8	251
97	An implicit immersed boundary method for three-dimensional fluid–membrane interactions. Journal of Computational Physics, 2009, 228, 8427-8445.	3.8	86
98	An implicit high-order hybridizable discontinuous Galerkin method for nonlinear convection–diffusion equations. Journal of Computational Physics, 2009, 228, 8841-8855.	3.8	184
99	Discontinuous Galerkin solution of the Navier–Stokes equations on deformable domains. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1585-1595.	6.6	187
100	Implicit Large Eddy Simulation of Transitional Flows Over Airfoils and Wings. , 2009, , .		31
101	Curved Mesh Generation and Mesh Refinement using Lagrangian Solid Mechanics. , 2009, , .		115
102	One-Dimensional Shock-Capturing for High-Order Discontinuous Galerkin Methods. , 2009, , 307-325.		2
103	A time-adaptive finite volume method for the Cahn–Hilliard and Kuramoto–Sivashinsky equations. Journal of Computational Physics, 2008, 227, 9985-10017.	3.8	62
104	A 'best points' interpolation method for efficient approximation of parametrized functions. International Journal for Numerical Methods in Engineering, 2008, 73, 521-543.	2.8	144
105	Mesh adaptive computation of upper and lower bounds in limit analysis. International Journal for Numerical Methods in Engineering, 2008, 75, 899-944.	2.8	187
106	An efficient reduced–order modeling approach for non–linear parametrized partial differential equations. International Journal for Numerical Methods in Engineering, 2008, 76, 27-55.	2.8	80
107	Multifidelity Approaches for the Computational Analysis and Design of Effective Flapping Wing Vehicles. , 2008, , .		16
108	Newton-GMRES Preconditioning for Discontinuous Galerkin Discretizations of the Navier–Stokes Equations. SIAM Journal of Scientific Computing, 2008, 30, 2709-2733.	2.8	173

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109	The Compact Discontinuous Galerkin (CDG) Method for Elliptic Problems. SIAM Journal of Scientific Computing, 2008, 30, 1806-1824.	2.8	278
110	Numerical design of electrical-mechanical traps. Lab on A Chip, 2008, 8, 755.	6.0	15
111	A Computational Framework for Fluid Structure Interaction in Biologically Inspired Flapping Flight. , 2007, , .		37
112	A Computational Investigation of Bio-Inspired Formation Flight and Ground Effect. , 2007, , .		12
113	A High Order Discontinuous Galerkin Method for Fluid-Structure Interaction. , 2007, , .		14
114	Discontinuous Galerkin Solution of the Navier-Stokes Equations on Deformable Domains. , 2007, , .		10
115	RANS Solutions Using High Order Discontinuous Galerkin Methods. , 2007, , .		48
116	A combined pFFT-multipole tree code, unsteady panel method with vortex particle wakes. International Journal for Numerical Methods in Fluids, 2007, 53, 1399-1422.	1.6	70
117	Effects of a slowdown warning system in mixed communication environments : A macroscopic study. , 2007, , .		1
118	A Numerical Exploration of Parameter Dependence in Power Optimal Flapping Flight. , 2006, , .		17
119	Sub-Cell Shock Capturing for Discontinuous Galerkin Methods. , 2006, , .		323
120	An Efficient Low Memory Implicit DG Algorithm for Time Dependent Problems. , 2006, , .		19
121	Comparing Aerodynamic Models for Numerical Simulation of Dynamics and Control of Aircraft. , 2006, , .		18
122	The computation of bounds for linear-functional outputs of weak solutions to the two-dimensional elasticity equations. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 406-429.	6.6	68
123	Computing upper and lower bounds for the J-integral in two-dimensional linear elasticity. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 430-443.	6.6	39
124	An immersed interface method for viscous incompressible flows involving rigid and flexible boundaries. Journal of Computational Physics, 2006, 220, 109-138.	3.8	155
125	A variationally consistent fractional time-step integration method for incompressible and nearly incompressible Lagrangian dynamics. International Journal for Numerical Methods in Engineering, 2005, 63, 1371-1395.	2.8	17
126	A Combined pFFT - Multipole Tree Code, Unsteady Panel Method with Vortex Particle Wakes. , 2005, , .		7

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127	Hybrid PIC-DSMC simulation of a Hall thruster plume on unstructured grids. Computer Physics Communications, 2004, 164, 73-79.	7.5	17
128	Algebraic multigrid for stabilized finite element discretizations of the Navier–Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3667-3686.	6.6	17
129	Parameterised electromagnetic scattering solutions for a range of incident wave angles. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3587-3605.	6.6	13
130	Computing Bounds for Linear Functionals of Exact Weak Solutions to the Advection-Diffusion-Reaction Equation. SIAM Journal of Scientific Computing, 2004, 26, 636-652.	2.8	28
131	Computing Bounds for Linear Functionals of Exact Weak Solutions to Poisson's Equation. SIAM Journal on Numerical Analysis, 2004, 42, 1610-1630.	2.3	44
132	A pFFT Accelerated BEM Linear Strength Potential Flow Solver. , 2004, , .		3
133	The development of an hp-adaptive finite element procedure for electromagnetic scattering problems. Finite Elements in Analysis and Design, 2003, 39, 751-764.	3.2	12
134	A Posteriori Output Bound for Partial Differential Equations Based on Elemental Error Bound Computing. Lecture Notes in Computer Science, 2003, , 1035-1044.	1.3	1
135	Application of Model Order Reduction to Compressor Aeroelastic Models. Journal of Engineering for Gas Turbines and Power, 2002, 124, 332-339.	1.1	14
136	Balanced Model Reduction via the Proper Orthogonal Decomposition. AIAA Journal, 2002, 40, 2323-2330.	2.6	752
137	Application of Reduced-Order Aerodynamic Modeling to the Analysis of Structural Uncertainty in Bladed Disks. , 2002, , 1257.		6
138	The efficient computation of bounds for functionals of finite element solutions in large strain elasticity. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4807-4826.	6.6	9
139	An Arnoldi approach for generation of reduced-order models for turbomachinery. Computers and Fluids, 2002, 31, 369-389.	2.5	41
140	The solution of the compressible Euler equations at low Mach numbers using a stabilized finite element algorithm. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 5719-5737.	6.6	29
141	A Posteriori Finite-Element Output Bounds for the Incompressible Navier–Stokes Equations: Application to a Natural Convection Problem. Journal of Computational Physics, 2001, 172, 401-425.	3.8	46
142	A posteriori finite element bounds for sensitivity derivatives of partial-differential-equation outputs. Finite Elements in Analysis and Design, 2000, 34, 271-290.	3.2	5
143	Elimination of Spurious Loss in Euler Equation Computations. AIAA Journal, 2000, 38, 411-417.	2.6	2
144	Application of Model Order Reduction to Compressor Aeroelastic Models. , 2000, , .		1

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145	Asymptotic a posteriori finite element bounds for the outputs of noncoercive problems: the Helmholtz and Burgers equations. Computer Methods in Applied Mechanics and Engineering, 1999, 171, 77-86.	6.6	39
146	Topologically Reliable Approximation of Trimmed Polynomial Surface Patches. Graphical Models, 1999, 61, 84-109.	1.3	13
147	Optimal control of vortex shedding using low-order models. Part I?open-loop model development. International Journal for Numerical Methods in Engineering, 1999, 44, 945-972.	2.8	173
148	Optimal control of vortex shedding using low-order models. Part II?model-based control. International Journal for Numerical Methods in Engineering, 1999, 44, 973-990.	2.8	69
149	A posteriori finite element error bounds for non-linear outputs of the Helmholtz equation. International Journal for Numerical Methods in Fluids, 1999, 31, 17-36.	1.6	22
150	Output bound approximations for partial differential equations; application to the incompressible navier-stokes equations. , 1999, , 93-108.		7
151	Low order aerodynamic models for aeroelastic control of turbomachines. , 1999, , .		43
152	Optimal control of vortex shedding using low-order models. Part Iâ€"open-loop model development. , 1999, 44, 945.		1
153	Optimal control of vortex shedding using lowâ€order models. Part Iâ€"openâ€loop model development. International Journal for Numerical Methods in Engineering, 1999, 44, 945-972.	2.8	25
154	Approximate development of trimmed patches for surface tessellation. CAD Computer Aided Design, 1998, 30, 1077-1087.	2.7	20
155	Progress towards a 3D aerodynamic shape optimization tool for the compressible, high-Re Navier-Stokes equations discretized on unstructured meshes. , 1998, , .		3
156	Unstructured mesh generation for 3D viscous flow. , 1998, , .		4
157	Unstructured grid finite-element methods for fluid mechanics. Reports on Progress in Physics, 1998, 61, 569-638.	20.1	63
158	Bounds for Linearâ€"Functional Outputs of Coercive Partial Differential Equations : Local Indicators and Adaptive Refinement. Studies in Applied Mechanics, 1998, , 199-216.	0.4	77
159	Elimination of spurious loss in Euler equation computations. , 1998, , .		0
160	Advancing Front Grid Generation. , 1998, , .		16
161	Fast Bounds for Outputs of Partial Differential Equations. , 1998, , 323-360.		8
162	Unstructured mesh generation including directional refinement for aerodynamic flow simulation. Finite Elements in Analysis and Design, 1997, 25, 343-356.	3.2	32

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163	A posteriori finite element bounds for linear-functional outputs of elliptic partial differential equations. Computer Methods in Applied Mechanics and Engineering, 1997, 150, 289-312.	6.6	187
164	AEROELASTIC COMPUTATIONS IN THE TIME DOMAIN USING UNSTRUCTURED MESHES. International Journal for Numerical Methods in Engineering, 1997, 40, 2413-2431.	2.8	11
165	Aerodynamic design using unstructured meshes. , 1996, , .		27
166	Practical 3D aerodynamic design and optimization using unstructured meshes. , 1996, , .		11
167	Active flow control using a reduced order model and optimum control. , 1996, , .		24
168	UNSTRUCTURED TETRAHEDRAL MESH GENERATION FOR THREE-DIMENSIONAL VISCOUS FLOWS. International Journal for Numerical Methods in Engineering, 1996, 39, 549-567.	2.8	86
169	A time domain unstructured grid approach to the simulation of electromagnetic scattering in piecewise homogeneous media. Computer Methods in Applied Mechanics and Engineering, 1996, 134, 17-36.	6.6	70
170	Mesh generation and adaptivity for the solution of compressible viscous high speed flows. International Journal for Numerical Methods in Engineering, 1995, 38, 1123-1148.	2.8	25
171	TVD algorithms for the solution of the compressible Euler equations on unstructured meshes. International Journal for Numerical Methods in Fluids, 1994, 19, 827-847.	1.6	39
172	An unstructured grid algorithm for the solution of Maxwell's equations in the time domain. International Journal for Numerical Methods in Fluids, 1994, 19, 849-863.	1.6	21
173	A High-Resolution Flux Splitting Scheme for the Solution of the Compressible Navier-Stokes Equations on Triangular Grids. , 1994, , 167-180.		1
174	Multigrid solution of the 3-D compressible euler equations on unstructured tetrahedral grids. International Journal for Numerical Methods in Engineering, 1993, 36, 1029-1044.	2.8	54
175	Finite element multigrid solution of Euler flows past installed aero-engines. Computational Mechanics, 1993, 11, 433-451.	4.0	39
176	Experimental and computational investigations of the flowfield around the F117A. , 1993, , .		0
177	AN UPWIND UNSTRUCTURED GRID SOLUTION ALGORITHM FOR COMPRESSIBLE FLOW. International Journal of Numerical Methods for Heat and Fluid Flow, 1993, 3, 283-304.	2.8	2
178	FINITE ELEMENT LEAST SQUARES SOLUTION OF THE EULER EQUATIONS USING LINEAR AND QUADRATIC APPROXIMATIONS. International Journal of Computational Fluid Dynamics, 1993, 1, 1-23.	1.2	17
179	Modelling of Sand Behaviour: Cyclic Loading, Anisotropy and Localization. , 1993, , 469-491.		11
180	Line relaxation methods for the solution of 2D and 3D compressible flows. , 1993, , .		4

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181	Domain decomposition combined with adaptive remeshing for problems of transient compressible flow. , 1993, , 220-224.		0
182	LEAST SQUARES FINITE ELEMENT SOLUTION OF COMPRESSIBLE AND INCOMPRESSIBLE FLOWS. International Journal of Numerical Methods for Heat and Fluid Flow, 1992, 2, 99-113.	2.8	21
183	A 3D finite element multigrid solver for the Euler equations. , 1992, , .		69
184	Adaptive remeshing for three-dimensional compressible flow computations. Journal of Computational Physics, 1992, 103, 269-285.	3.8	154
185	Adaptive explicit and implicit finite element methods for transient thermal analysis. International Journal for Numerical Methods in Engineering, 1992, 35, 655-670.	2.8	19
186	A Finite Element Procedure for the Simulation of Viscous Compressible Flows. , 1992, , 348-367.		0
187	Adaptive unstructured mesh methods for steady viscous flow. , 1991, , .		6
188	An alternating digital tree (ADT) algorithm for 3D geometric searching and intersection problems. International Journal for Numerical Methods in Engineering, 1991, 31, 1-17.	2.8	368
189	An implicit finite-element method for high-speed flows. International Journal for Numerical Methods in Engineering, 1991, 32, 183-205.	2.8	14
190	An adaptive finite element method for transient compressible flows with moving boundaries. International Journal for Numerical Methods in Engineering, 1991, 32, 751-765.	2.8	38
191	An adaptive finite element method for transient compressible flows. International Journal for Numerical Methods in Engineering, 1991, 32, 1145-1159.	2.8	18
192	The computation of three-dimensional flows using unstructured grids. Computer Methods in Applied Mechanics and Engineering, 1991, 87, 335-352.	6.6	68
193	Adaptive remeshing for shear band localization problems. Archive of Applied Mechanics, 1991, 61, 30-39.	2.2	37
194	The Application of an Adaptive Upwind Unstructured Grid Solution Algorithm to the Simulation of Compressible Laminar Viscous Flows Over Compression Corners. , 1991, , 201-211.		1
195	The Computation of Aerodynamic Flows Using Unstructured Meshes. , 1991, , 452-464.		0
196	The Application of an Adaptive Unstructured Grid Method to the Solution of Hypersonic Flows Past Double Ellipse and Double Ellipsoid Configurations. , 1991, , 451-471.		0
197	Compressible and incompressible flow; An algorithm for all seasons. Computer Methods in Applied Mechanics and Engineering, 1990, 78, 105-121.	6.6	62
198	Applications of an adaptive unstructured solution algorithm to the analysis of high speed flows. , 1990, , .		11

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199	A point implicit unstructured grid solver for the euler and Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 1989, 9, 405-425.	1.6	50
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