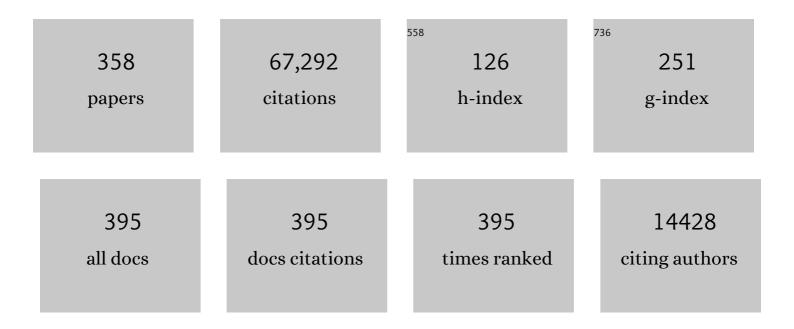
## Thomas J R Hughes

List of Publications by Year in descending order

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THOMAS LR HUCHES

#	Article	IF	CITATIONS
1	Discontinuous Galerkin methods through the lens of variational multiscale analysis. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114220.	6.6	8
2	lsogeometric model reconstruction of open shells via Ricci flow and quadrilateral layout-inducing energies. Engineering Structures, 2022, 252, 113602.	5.3	9
3	Analysis-suitable unstructured T-splines: Multiple extraordinary points per face. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114494.	6.6	25
4	Galerkin Formulations withÂGreville Quadrature Rules forÂIsogeometric Shell Analysis: Higher Order Elements andÂLocking. , 2022, , 207-215.		0
5	A Comparison of Matrix-Free Isogeometric Galerkin and Collocation Methods for Karhunen–LoÔve Expansion. , 2022, , 329-341.		0
6	Dynamic Fracture of Brittle Shells in a Space-Time Adaptive Isogeometric Phase Field Framework. , 2022, , 407-415.		0
7	An accurate strategy for computing reaction forces and fluxes on trimmed locally refined meshes. Journal of Mechanics, 2022, 38, 60-76.	1.4	5
8	Quadrilateral layout generation and optimization using equivalence classes of integral curves: theory and application to surfaces with boundaries. Journal of Mechanics, 2022, 38, 128-155.	1.4	5
9	Simulating the spread of COVID-19 via a spatially-resolved susceptible–exposed–infected–recovered–deceased (SEIRD) model with heterogeneous diffusion. Applied Mathematics Letters, 2021, 111, 106617.	2.7	156
10	The divergence-conforming immersed boundary method: Application to vesicle and capsule dynamics. Journal of Computational Physics, 2021, 425, 109872.	3.8	23
11	Tuned hybrid nonuniform subdivision surfaces with optimal convergence rates. International Journal for Numerical Methods in Engineering, 2021, 122, 2117-2144.	2.8	27
12	Computational medicine, present and the future: obstetrics and gynecology perspective. American Journal of Obstetrics and Gynecology, 2021, 224, 16-34.	1.3	7
13	Polynomial spline spaces of non-uniform bi-degree on T-meshes: combinatorial bounds on the dimension. Advances in Computational Mathematics, 2021, 47, 1.	1.6	1
14	lsogeometric discrete differential forms: Non-uniform degrees, BézierÂextraction, polar splines and flows on surfaces. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113576.	6.6	12
15	Patient specific, imaging-informed modeling of rhenium-186 nanoliposome delivery via convection-enhanced delivery in glioblastoma multiforme. Biomedical Physics and Engineering Express, 2021, 7, 045012.	1.2	6
16	A matrix-free isogeometric Galerkin method for Karhunen–LoÔve approximation of random fields using tensor product splines, tensor contraction and interpolation based quadrature. Computer Methods in Applied Mechanics and Engineering, 2021, 379, 113730.	6.6	13
17	Removal of spurious outlier frequencies and modes from isogeometric discretizations of second- and fourth-order problems in one, two, and three dimensions. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114115.	6.6	14
18	Smooth multi-patch discretizations in Isogeometric Analysis. Handbook of Numerical Analysis, 2021, , 467-543.	1.8	6

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19	Seamless integration of design and Kirchhoff–Love shell analysis using analysis-suitable unstructured T-splines. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112765.	6.6	58
20	Multi-degree B-splines: Algorithmic computation and properties. Computer Aided Geometric Design, 2020, 76, 101792.	1.2	24
21	Thinner biological tissues induce leaflet flutter in aortic heart valve replacements. Proceedings of the United States of America, 2020, 117, 19007-19016.	7.1	50
22	Diffusion–reaction compartmental models formulated in a continuum mechanics framework: application to COVID-19, mathematical analysis, and numerical study. Computational Mechanics, 2020, 66, 1131-1152.	4.0	63
23	Mixed stress-displacement isogeometric collocation for nearly incompressible elasticity and elastoplasticity. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113112.	6.6	18
24	Towards untrimmed NURBS: CAD embedded reparameterization of trimmed B-rep geometry using frame-fieldÂguided global parameterization. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113227.	6.6	21
25	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e975" altimg="si10.svg"> <mml:mrow><mml:mn>5</mml:mn><mml:mi>l±</mml:mi></mml:mrow> -reducts inhibitors on tumor growth in prostates enlarged by benign prostatic hyperplasia via stress relaxation and apoptosis upregulation. Computer Methods in Applied Mechanics and Engineering.	ase 6.6	11
26	2020, 362, 112843. An adaptive space-time phase field formulation for dynamic fracture of brittle shells based on LR NURBS. Computational Mechanics, 2020, 65, 1039-1062.	4.0	32
27	A Tchebycheffian Extension of Multidegree B-Splines: Algorithmic Computation and Properties. SIAM Journal on Numerical Analysis, 2020, 58, 1138-1163.	2.3	15
28	Computational Cardiovascular Analysis with the Variational Multiscale Methods and Isogeometric Discretization. Modeling and Simulation in Science, Engineering and Technology, 2020, , 151-193.	0.6	21
29	Reconstruction of Trimmed NURBS Surfaces for Gap-Free Intersections. Journal of Computing and Information Science in Engineering, 2020, 20, .	2.7	1
30	Polynomial splines of non-uniform degree on triangulations: Combinatorial bounds on the dimension. Computer Aided Geometric Design, 2019, 75, 101763.	1.2	5
31	Fast formation and assembly of finite element matrices with application to isogeometric linear elasticity. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 234-260.	6.6	39
32	Isogeometric boundary element methods and patch tests for linear elastic problems: Formulation, numerical integration, and applications. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112591.	6.6	21
33	Watertight Boolean operations: A framework for creating CAD-compatible gap-free editable solid models. CAD Computer Aided Design, 2019, 115, 147-160.	2.7	19
34	An isogeometric finite element formulation for phase transitions on deforming surfaces. Computer Methods in Applied Mechanics and Engineering, 2019, 351, 441-477.	6.6	31
35	Analysisâ€suitable CAD Models based on Watertight Boolean Operations. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900275.	0.2	1
36	Computer simulations suggest that prostate enlargement due to benign prostatic hyperplasia mechanically impedes prostate cancer growth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1152-1161.	7.1	79

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37	Symbol-Based Analysis of Finite Element and Isogeometric B-Spline Discretizations of Eigenvalue Problems: Exposition and Review. Archives of Computational Methods in Engineering, 2019, 26, 1639-1690.	10.2	28
38	Review of Patient-Specific Vascular Modeling: Template-Based Isogeometric Framework and the Case for CAD. Archives of Computational Methods in Engineering, 2019, 26, 381-404.	10.2	26
39	Integrating quantitative imaging and computational modeling to predict the spatiotemporal distribution of 186Re nanoliposomes for recurrent glioblastoma treatment. , 2019, , .		1
40	Reconstruction of Gap-Free Intersections for Trimmed NURBS Surfaces. , 2019, , .		0
41	Variationally consistent isogeometric analysis of trimmed thin shells at finite deformations, based on the STEP exchange format. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 39-79.	6.6	75
42	Explicit higher-order accurate isogeometric collocation methods for structural dynamics. Computer Methods in Applied Mechanics and Engineering, 2018, 338, 208-240.	6.6	60
43	Improved conditioning of isogeometric analysis matrices for trimmed geometries. Computer Methods in Applied Mechanics and Engineering, 2018, 334, 79-110.	6.6	33
44	A Review of Trimming in Isogeometric Analysis: Challenges, Data Exchange and Simulation Aspects. Archives of Computational Methods in Engineering, 2018, 25, 1059-1127.	10.2	115
45	Phase-Field Formulation for Ductile Fracture. Computational Methods in Applied Sciences (Springer), 2018, , 45-70.	0.3	6
46	A framework for designing patientâ€specific bioprosthetic heart valves using immersogeometric fluid–structure interaction analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2938.	2.1	93
47	Isogeometric Analysis: Mathematical and Implementational Aspects, with Applications. Lecture Notes in Mathematics, 2018, , 237-315.	0.2	8
48	Error estimates for projection-based dynamic augmented Lagrangian boundary condition enforcement, with application to fluid–structure interaction. Mathematical Models and Methods in Applied Sciences, 2018, 28, 2457-2509.	3.3	40
49	Blended B-spline construction on unstructured quadrilateral and hexahedral meshes with optimal convergence rates in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2018, 341, 609-639.	6.6	49
50	A diffuse interface method for the Navier–Stokes/Darcy equations: Perfusion profile for a patient-specific human liver based on MRI scans. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 70-102.	6.6	33
51	Smooth cubic spline spaces on unstructured quadrilateral meshes with particular emphasis on extraordinary points: Geometric design and isogeometric analysis considerations. Computer Methods in Applied Mechanics and Engineering, 2017, 327, 411-458.	6.6	94
52	Hierarchically refined and coarsened splines for moving interface problems, with particular application to phase-field models of prostate tumor growth. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 515-548.	6.6	40
53	iruncated hierarchical tricubic <mml:math xmins:mml="http://www.w3.org/1998/Math/Math/Math/Math/Math/Math/Math/Math&lt;/td"><td>ml:ກ<b>2</b>ງຈ <td>ml:2166row&gt;</td></td></mml:math>	ml:ກ <b>2</b> ງຈ <td>ml:2166row&gt;</td>	ml:2166row>
54	Optimal and reduced quadrature rules for tensor product and hierarchically refined splines in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 966-1004.	6.6	81

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55	Multi-degree smooth polar splines: A framework for geometric modeling and isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 1005-1061.	6.6	68
56	Truncated T-splines: Fundamentals and methods. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 349-372.	6.6	67
57	Immersogeometric cardiovascular fluid–structure interaction analysis with divergence-conforming B-splines. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 408-472.	6.6	80
58	Inversion of geothermal heat flux in a thermomechanically coupled nonlinear Stokes ice sheet model. Cryosphere, 2016, 10, 1477-1494.	3.9	8
59	Extended Truncated Hierarchical Catmull–Clark Subdivision. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 316-336.	6.6	37
60	A phase-field formulation for fracture in ductile materials: Finite deformation balance law derivation, plastic degradation, and stress triaxiality effects. Computer Methods in Applied Mechanics and Engineering, 2016, 312, 130-166.	6.6	399
61	Isogeometric Compatible Discretizations for Viscous Incompressible Flow. Lecture Notes in Mathematics, 2016, , 155-193.	0.2	2
62	Tissue-scale, personalized modeling and simulation of prostate cancer growth. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7663-E7671.	7.1	68
63	Isogeometric analysis of boundary integral equations: High-order collocation methods for the singular and hyper-singular equations. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1447-1480.	3.3	20
64	A palette of fine-scale eddy viscosity and residual-based models for variational multiscale formulations of turbulence. Computational Mechanics, 2016, 57, 629-635.	4.0	3
65	Laudation at the AFSI 2014 Conference Banquet Celebrating Tayfun Tezduyar's 60th Birthday, Tokyo, Japan, March 2014. Modeling and Simulation in Science, Engineering and Technology, 2016, , 1-3.	0.6	0
66	Isogeometric Phase-Field Simulation of Boiling. Modeling and Simulation in Science, Engineering and Technology, 2016, , 217-228.	0.6	0
67	A collocated <i>C</i> <sup>0</sup> finite element method: Reduced quadrature perspective, cost comparison with standard finite elements, and explicit structural dynamics. International Journal for Numerical Methods in Engineering, 2015, 102, 576-631.	2.8	28
68	Magnetic resonance imaging-based computational modelling of blood flow and nanomedicine deposition in patients with peripheral arterial disease. Journal of the Royal Society Interface, 2015, 12, 20150001.	3.4	27
69	An Introduction to Isogeometric Collocation Methods. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2015, , 173-204.	0.6	12
70	Single-variable formulations and isogeometric discretizations for shear deformable beams. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 988-1004.	6.6	90
71	An immersogeometric variational framework for fluid–structure interaction: Application to bioprosthetic heart valves. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 1005-1053.	6.6	350
72	Truncated hierarchical Catmull–Clark subdivision with local refinement. Computer Methods in Applied Mechanics and Engineering, 2015, 291, 1-20.	6.6	89

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73	Selective and reduced numerical integrations for NURBS-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 732-761.	6.6	96
74	A locking-free model for Reissner–Mindlin plates: Analysis and isogeometric implementation via NURBS and triangular NURPS. Mathematical Models and Methods in Applied Sciences, 2015, 25, 1519-1551.	3.3	64
75	Isogeometric collocation for large deformation elasticity and frictional contact problems. Computer Methods in Applied Mechanics and Engineering, 2015, 296, 73-112.	6.6	85
76	Liquid–vapor phase transition: Thermomechanical theory, entropy stable numerical formulation, and boiling simulations. Computer Methods in Applied Mechanics and Engineering, 2015, 297, 476-553.	6.6	66
77	Patient-specific isogeometric structural analysis of aortic valve closure. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 508-520.	6.6	102
78	lsogeometric collocation: Neumann boundary conditions and contact. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 21-54.	6.6	101
79	Amplitude–phase decompositions and the growth and decay of solutions of the incompressible Navier–Stokes and Euler equations. Mathematical Models and Methods in Applied Sciences, 2014, 24, 1017-1035.	3.3	Ο
80	lsogeometric contact: a review. GAMM Mitteilungen, 2014, 37, 85-123.	5.5	122
81	Isogeometric analysis of nearly incompressible large strain plasticity. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 388-416.	6.6	40
82	Vascular deposition patterns for nanoparticles in an inflamed patient-specific arterial tree. Biomechanics and Modeling in Mechanobiology, 2014, 13, 585-597.	2.8	40
83	Volumetric T-spline construction using Boolean operations. Engineering With Computers, 2014, 30, 425-439.	6.1	75
84	Reduced Bézier element quadrature rules for quadratic and cubic splines in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2014, 277, 1-45.	6.6	120
85	A residual based eddy viscosity model for the large eddy simulation of turbulent flows. Computer Methods in Applied Mechanics and Engineering, 2014, 282, 54-70.	6.6	15
86	Isogeometric boundary-element analysis for the wave-resistance problem using T-splines. Computer Methods in Applied Mechanics and Engineering, 2014, 279, 425-439.	6.6	60
87	Fluid–structure interaction analysis of bioprosthetic heart valves: significance of arterial wall deformation. Computational Mechanics, 2014, 54, 1055-1071.	4.0	240
88	Finite element and NURBS approximations of eigenvalue, boundary-value, and initial-value problems. Computer Methods in Applied Mechanics and Engineering, 2014, 272, 290-320.	6.6	187
89	A higher-order phase-field model for brittle fracture: Formulation and analysis within the isogeometric analysis framework. Computer Methods in Applied Mechanics and Engineering, 2014, 273, 100-118.	6.6	418
90	USNCTAM perspectives on mechanics in medicine. Journal of the Royal Society Interface, 2014, 11, 20140301.	3.4	35

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91	Volumetric T-spline Construction Using Boolean Operations. , 2014, , 405-424.		3
92	Explicit trace inequalities for isogeometric analysis and parametric hexahedral finite elements. Numerische Mathematik, 2013, 123, 259-290.	1.9	37
93	ISOGEOMETRIC DIVERGENCE-CONFORMING B-SPLINES FOR THE DARCY–STOKES–BRINKMAN EQUATIONS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 671-741.	3.3	81
94	Conformal solid T-spline construction from boundary T-spline representations. Computational Mechanics, 2013, 51, 1051-1059.	4.0	71
95	lsogeometric boundary element analysis using unstructured T-splines. Computer Methods in Applied Mechanics and Engineering, 2013, 254, 197-221.	6.6	311
96	Blended isogeometric shells. Computer Methods in Applied Mechanics and Engineering, 2013, 255, 133-146.	6.6	133
97	lsogeometric divergence-conforming B-splines for the unsteady Navier–Stokes equations. Journal of Computational Physics, 2013, 241, 141-167.	3.8	120
98	Isogeometric collocation: Cost comparison with Galerkin methods and extension to adaptive hierarchical NURBS discretizations. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 170-232.	6.6	248
99	Functional entropy variables: A new methodology for deriving thermodynamically consistent algorithms for complex fluids, with particular reference to the isothermal Navier–Stokes–Korteweg equations. Journal of Computational Physics, 2013, 248, 47-86.	3.8	57
100	Isogeometric analysis of the advective Cahn–Hilliard equation: Spinodal decomposition under shear flow. Journal of Computational Physics, 2013, 242, 321-350.	3.8	90
101	<i>In silico</i> vascular modeling for personalized nanoparticle delivery. Nanomedicine, 2013, 8, 343-357.	3.3	66
102	Trivariate solid T-spline construction from boundary triangulations with arbitrary genus topology. CAD Computer Aided Design, 2013, 45, 351-360.	2.7	114
103	Isogeometric Collocation: Cost Comparison with Galerkin Methods and Extension to Adaptive Hierarchical NURBS Discretizations. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 107-108.	0.2	2
104	Simulation of laminar and turbulent concentric pipe flows with the isogeometric variational multiscale method. Computers and Fluids, 2013, 71, 146-155.	2.5	29
105	ISOGEOMETRIC DIVERGENCE-CONFORMING B-SPLINES FOR THE STEADY NAVIER–STOKES EQUATIONS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 1421-1478.	3.3	137
106	An inexact Gauss-Newton method for inversion of basal sliding and rheology parameters in a nonlinear Stokes ice sheet model. Journal of Glaciology, 2012, 58, 889-903.	2.2	80
107	Isogeometric collocation for elastostatics and explicit dynamics. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 2-14.	6.6	171
108	Isogeometric Analysis for Topology Optimization with a Phase Field Model. Archives of Computational Methods in Engineering, 2012, 19, 427-465.	10.2	220

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109	Discrete spectrum analyses for various mixed discretizations of the Stokes eigenproblem. Computational Mechanics, 2012, 50, 667-674.	4.0	24
110	Solid T-spline construction from boundary representations for genus-zero geometry. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 185-197.	6.6	133
111	An isogeometric design-through-analysis methodology based on adaptive hierarchical refinement of NURBS, immersed boundary methods, and T-spline CAD surfaces. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 116-150.	6.6	372
112	A simple algorithm for obtaining nearly optimal quadrature rules for NURBS-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 15-27.	6.6	172
113	Isogeometric variational multiscale large-eddy simulation of fully-developed turbulent flow over a wavy wall. Computers and Fluids, 2012, 68, 94-104.	2.5	48
114	Converting an unstructured quadrilateral/hexahedral mesh to a rational T-spline. Computational Mechanics, 2012, 50, 65-84.	4.0	57
115	On linear independence of T-spline blending functions. Computer Aided Geometric Design, 2012, 29, 63-76.	1.2	184
116	Generalization of the twist-Kirchhoff theory of plate elements to arbitrary quadrilaterals and assessment of convergence. Computer Methods in Applied Mechanics and Engineering, 2012, 209-212, 101-114.	6.6	7
117	Three-dimensional mortar-based frictional contact treatment in isogeometric analysis with NURBS. Computer Methods in Applied Mechanics and Engineering, 2012, 209-212, 115-128.	6.6	134
118	Local refinement of analysis-suitable T-splines. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 206-222.	6.6	285
119	A phase-field description of dynamic brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2012, 217-220, 77-95.	6.6	1,196
120	A finite strain Eulerian formulation for compressible and nearly incompressible hyperelasticity using highâ€order Bâ€spline finite elements. International Journal for Numerical Methods in Engineering, 2012, 89, 762-785.	2.8	39
121	Mathematical modeling of coupled drug and drug-encapsulated nanoparticle transport in patient-specific coronary artery walls. Computational Mechanics, 2012, 49, 213-242.	4.0	86
122	Converting an unstructured quadrilateral mesh to a standard T-spline surface. Computational Mechanics, 2011, 48, 477-498.	4.0	64
123	New rectangular plate elements based on twist-Kirchhoff theory. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2547-2561.	6.6	10
124	lsogeometric finite element data structures based on Bézier extraction of NURBS. International Journal for Numerical Methods in Engineering, 2011, 87, 15-47.	2.8	407
125	An isogeometric approach to cohesive zone modeling. International Journal for Numerical Methods in Engineering, 2011, 87, 336-360.	2.8	154
126	An isogeometric analysis approach to gradient damage models. International Journal for Numerical Methods in Engineering, 2011, 86, 115-134.	2.8	160

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127	Isogeometric finite element data structures based on Bézier extraction of Tâ€splines. International Journal for Numerical Methods in Engineering, 2011, 88, 126-156.	2.8	268
128	Contact treatment in isogeometric analysis with NURBS. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1100-1112.	6.6	236
129	A large deformation, rotation-free, isogeometric shell. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1367-1378.	6.6	300
130	Provably unconditionally stable, second-order time-accurate, mixed variational methods for phase-field models. Journal of Computational Physics, 2011, 230, 5310-5327.	3.8	196
131	Isogeometric Failure Analysis. , 2011, , 275-282.		1
132	Isogeometric Analysis. , 2011, , .		0
133	Improving stability of stabilized and multiscale formulations in flow simulations at small time steps. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 828-840.	6.6	199
134	Isogeometric analysis of the isothermal Navier–Stokes–Korteweg equations. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1828-1840.	6.6	191
135	Stabilized Methods for Compressible Flows. Journal of Scientific Computing, 2010, 43, 343-368.	2.3	129
136	A generalized finite element formulation for arbitrary basis functions: From isogeometric analysis to XFEM. International Journal for Numerical Methods in Engineering, 2010, 83, 765-785.	2.8	213
137	Isogeometric variational multiscale modeling of wall-bounded turbulent flows with weakly enforced boundary conditions on unstretched meshes. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 780-790.	6.6	241
138	Efficient quadrature for NURBS-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 301-313.	6.6	426
139	Robustness of isogeometric structural discretizations under severe mesh distortion. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 357-373.	6.6	220
140	Isogeometric analysis using T-splines. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 229-263.	6.6	834
141	Isogeometric shell analysis: The Reissner–Mindlin shell. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 276-289.	6.6	551
142	An automatic 3D mesh generation method for domains with multiple materials. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 405-415.	6.6	146
143	Turbulence modeling for large eddy simulations. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 779.	6.6	3
144	ISOGEOMETRIC COLLOCATION METHODS. Mathematical Models and Methods in Applied Sciences, 2010, 20, 2075-2107.	3.3	308

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145	Modeling of Drug and Drug-Encapsulated Nanoparticle Transport in Patient-Specific Coronary Artery Walls to Treat Vulnerable Plaques. , 2010, , .		0
146	Variational Multiscale Theory of LES Turbulence Modeling. ERCOFTAC Series, 2010, , 99-108.	0.1	0
147	n-Widths, sup–infs, and optimality ratios for the k-version of the isogeometric finite element method. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1726-1741.	6.6	231
148	Augmented Lagrangian method for constraining the shape of velocity profiles at outlet boundaries for three-dimensional finite element simulations of blood flow. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3551-3566.	6.6	84
149	Patient-specific isogeometric fluid–structure interaction analysis of thoracic aortic blood flow due to implantation of the Jarvik 2000 left ventricular assist device. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3534-3550.	6.6	347
150	Enforcement of constraints and maximum principles in the variational multiscale method. Computer Methods in Applied Mechanics and Engineering, 2009, 199, 61-76.	6.6	23
151	F-bar projection method for finite deformation elasticity and plasticity using NURBS based isogeometric analysis. International Journal of Material Forming, 2008, 1, 1091-1094.	2.0	12
152	NURBS-based isogeometric analysis for the computation of flows about rotating components. Computational Mechanics, 2008, 43, 143-150.	4.0	244
153	Isogeometric fluid-structure interaction: theory, algorithms, and computations. Computational Mechanics, 2008, 43, 3-37.	4.0	768
154	Multiphysics model for blood flow and drug transport with application to patient-specific coronary artery flow. Computational Mechanics, 2008, 43, 161-177.	4.0	54
155	and projection methods for nearly incompressible linear and non-linear elasticity and plasticity using higher-order NURBS elements. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2732-2762.	6.6	297
156	Duality and unified analysis of discrete approximations in structural dynamics and wave propagation: Comparison of p-method finite elements with k-method NURBS. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4104-4124.	6.6	329
157	Isogeometric analysis of the Cahn–Hilliard phase-field model. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4333-4352.	6.6	514
158	Automatic 3D Mesh Generation for a Domain with Multiple Materials. , 2008, , 367-386.		13
159	Variational Multiscale Analysis: the Fineâ€scale Green's Function, Projection, Optimization, Localization, and Stabilized Methods. SIAM Journal on Numerical Analysis, 2007, 45, 539-557.	2.3	216
160	YZβ discontinuity capturing for advection-dominated processes with application to arterial drug delivery. International Journal for Numerical Methods in Fluids, 2007, 54, 593-608.	1.6	129
161	Stabilized shock hydrodynamics: I. A Lagrangian method. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 923-966.	6.6	77
162	Patient-specific vascular NURBS modeling for isogeometric analysis of blood flow. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 2943-2959.	6.6	340

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163	Studies of refinement and continuity in isogeometric structural analysis. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4160-4183.	6.6	550
164	Weak Dirichlet boundary conditions for wall-bounded turbulent flows. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4853-4862.	6.6	200
165	Variational multiscale residual-based turbulence modeling for large eddy simulation of incompressible flows. Computer Methods in Applied Mechanics and Engineering, 2007, 197, 173-201.	6.6	835
166	Weak imposition of Dirichlet boundary conditions in fluid mechanics. Computers and Fluids, 2007, 36, 12-26.	2.5	381
167	Title is missing!. Computers and Fluids, 2007, 36, 1.	2.5	1
168	The role of continuity in residual-based variational multiscale modeling of turbulence. Computational Mechanics, 2007, 41, 371-378.	4.0	202
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355	Vibrations and Wave Propagation. , 0, , 149-184.		0
356	Nonlinear Isogeometric Analysis. , 0, , 197-209.		3
357	Nearly Incompressible Solids. , 0, , 211-225.		0

358 Fluids. , 0, , 227-251.