

Yongjie Zhang

List of Publications by Year in descending order

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156
papers

7,075
citations

81839

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169
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169
docs citations

169
times ranked

3681
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Remeshing: A Systematic Literature Review of Methods and Research Directions. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1680-1713.	2.9	19
2	Analysis-suitable unstructured T-splines: Multiple extraordinary points per face. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114494.	3.4	25
3	Hybrid IGA-FEA of fiber reinforced thermoplastic composites for forward design of AI-enabled 4D printing. Journal of Materials Processing Technology, 2022, 302, 117497.	3.1	10
4	Modeling intracellular transport and traffic jam in 3D neurons using PDE-constrained optimization. Journal of Mechanics, 2022, 38, 44-59.	0.7	7
5	Quadratic serendipity element shape functions on general planar polygons. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114703.	3.4	0
6	Modeling material transport regulation and traffic jam in neurons using PDE-constrained optimization. Scientific Reports, 2022, 12, 3902.	1.6	5
7	TCB-spline-based isogeometric analysis method with high-quality parameterizations. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114771.	3.4	6
8	TCB-spline-based Image Vectorization. ACM Transactions on Graphics, 2022, 41, 1-17.	4.9	4
9	Modeling neuron growth using isogeometric collocation based phase field method. Scientific Reports, 2022, 12, 8120.	1.6	12
10	HexDom: Polycube-Based Hexahedral-Dominant Mesh Generation. SEMA SIMAI Springer Series, 2022, , 137-155.	0.4	14
11	The divergence-conforming immersed boundary method: Application to vesicle and capsule dynamics. Journal of Computational Physics, 2021, 425, 109872.	1.9	23
12	Image-based modelling for Adolescent Idiopathic Scoliosis: Mechanistic machine learning analysis and prediction. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113590.	3.4	31
13	Singularity Structure Simplification of Hexahedral Meshes via Weighted Ranking. CAD Computer Aided Design, 2021, 130, 102946.	1.4	11
14	Tuned hybrid nonuniform subdivision surfaces with optimal convergence rates. International Journal for Numerical Methods in Engineering, 2021, 122, 2117-2144.	1.5	27
15	Topology optimization of phononic-like structures using experimental material interpolation model for additive manufactured lattice infills. Computer Methods in Applied Mechanics and Engineering, 2021, 377, 113717.	3.4	16
16	Deep learning of material transport in complex neurite networks. Scientific Reports, 2021, 11, 11280.	1.6	7
17	Anatomically realistic lumen motion representation in patient-specific space-time isogeometric flow analysis of coronary arteries with time-dependent medical-image data. Computational Mechanics, 2020, 65, 395-404.	2.2	37
18	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.	3.4	58

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19	Explicit isogeometric topology optimization based on moving morphable voids with closed B-spline boundary curves. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 963-982.	1.7	32
20	Fluid-inspired field representation for risk assessment in road scenes. <i>Computational Visual Media</i> , 2020, 6, 401-415.	10.8	1
21	Slicing heterogeneous solid using octree-based subdivision and trivariate T-splines for additive manufacturing. <i>Rapid Prototyping Journal</i> , 2020, 26, 164-175.	1.6	6
22	Visibility-driven skeleton extraction from unstructured points. <i>Computer Aided Geometric Design</i> , 2020, 82, 101929.	0.5	2
23	A trivariate T-spline based framework for modeling heterogeneous solids. <i>Computer Aided Geometric Design</i> , 2020, 81, 101882.	0.5	4
24	Interpolatory Catmull-Clark volumetric subdivision over unstructured hexahedral meshes for modeling and simulation applications. <i>Computer Aided Geometric Design</i> , 2020, 80, 101867.	0.5	20
25	Reaction diffusion system prediction based on convolutional neural network. <i>Scientific Reports</i> , 2020, 10, 3894.	1.6	34
26	Merge-Swap Optimization Framework for Supervoxel Generation from Three-Dimensional Point Clouds. <i>Remote Sensing</i> , 2020, 12, 473.	1.8	7
27	Material characterization and precise finite element analysis of fiber reinforced thermoplastic composites for 4D printing. <i>CAD Computer Aided Design</i> , 2020, 122, 102817.	1.4	44
28	Anatomically realistic lumen motion representation in patient-specific space-time isogeometric flow analysis of coronary arteries with time-dependent medical-image data. , 2020, 65, 395.		1
29	SimuLearn. , 2020, , .		11
30	MorphingCircuit. , 2020, 4, 1-26.		30
31	A finite element framework based on bivariate simplex splines on triangle configurations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112598.	3.4	11
32	Geodesy. , 2019, , .		38
33	Hybrid non-uniform recursive subdivision with improved convergence rates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 352, 606-624.	3.4	29
34	Interpolatory Curve Modeling with Feature Points Control. <i>CAD Computer Aided Design</i> , 2019, 114, 155-163.	1.4	4
35	Cartonist: Automatic Synthesis and Interactive Exploration of Nonstandard Carton Design. <i>CAD Computer Aided Design</i> , 2019, 114, 215-223.	1.4	0
36	Joint image segmentation and registration based on a dynamic level set approach using truncated hierarchical B-splines. <i>Computers and Mathematics With Applications</i> , 2019, 78, 3250-3267.	1.4	8

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37	Point cloud surface segmentation based on volumetric eigenfunctions of the Laplace-Beltrami operator. <i>Computer Aided Geometric Design</i> , 2019, 71, 157-175.	0.5	1
38	An adaptive isogeometric analysis collocation method with a recovery-based error estimator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 345, 52-74.	3.4	22
39	Review of Patient-Specific Vascular Modeling: Template-Based Isogeometric Framework and the Case for CAD. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 381-404.	6.0	26
40	An Isogeometric Analysis Computational Platform for Material Transport Simulation in Complex Neurite Networks. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 123-140.	0.3	13
41	Orientation field guided line abstraction for 3D printing. <i>Computer Aided Geometric Design</i> , 2018, 62, 253-262.	0.5	3
42	CVT-based 3D image segmentation and quality improvement of tetrahedral/hexahedral meshes using anisotropic Giaquinta-Hildebrandt operator. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018, 6, 331-342.	1.3	5
43	A Field-Based Representation of Surrounding Vehicle Motion from a Monocular Camera. , 2018, , .		1
44	Point cloud resampling using centroidal Voronoi tessellation methods. <i>CAD Computer Aided Design</i> , 2018, 102, 12-21.	1.4	32
45	Blended B-spline construction on unstructured quadrilateral and hexahedral meshes with optimal convergence rates in isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 341, 609-639.	3.4	49
46	Non-body-fitted fluid-structure interaction: Divergence-conforming B-splines, fully-implicit dynamics, and variational formulation. <i>Journal of Computational Physics</i> , 2018, 374, 625-653.	1.9	27
47	Optimal power diagrams via function approximation. <i>CAD Computer Aided Design</i> , 2018, 102, 52-60.	1.4	6
48	DTHB3D_Reg: Dynamic Truncated Hierarchical B-Spline Based 3D Nonrigid Image Registration. <i>Communications in Computational Physics</i> , 2018, 23, .	0.7	11
49	Integrating CAD with Abaqus: A practical isogeometric analysis software platform for industrial applications. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1648-1660.	1.4	40
50	Two and Three Dimensional Image Registration Based on B-Spline Composition and Level Sets. <i>Communications in Computational Physics</i> , 2017, 21, 600-622.	0.7	11
51	Truncated hierarchical tricubic spline construction on unstructured hexahedral meshes for isogeometric analysis applications. <i>Computers and Mathematics With Applications</i> , 2017, 74, 2203-2220.	1.4	26
52	Truncated T-splines: Fundamentals and methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 316, 349-372.	3.4	67
53	Arbitrary-degree T-splines for isogeometric analysis of fully nonlinear Kirchhoff-Love shells. <i>CAD Computer Aided Design</i> , 2017, 82, 140-153.	1.4	50
54	Surface segmentation for polycube construction based on generalized centroidal Voronoi tessellation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 316, 280-296.	3.4	17

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55	Image-based measurement of cargo traffic flow in complex neurite networks. , 2017, , .		0
56	A hybrid variational-collocation immersed method for fluid-structure interaction using unstructured T-splines. International Journal for Numerical Methods in Engineering, 2016, 105, 855-880.	1.5	27
57	Feature-aligned Surface Parameterization Using Secondary Laplace Operator and Loop Subdivision. Procedia Engineering, 2016, 163, 186-198.	1.2	3
58	Extended Truncated Hierarchical Catmull-Clark Subdivision. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 316-336.	3.4	37
59	Rhino 3D to Abaqus: A T-Spline Based Isogeometric Analysis Software Framework. Modeling and Simulation in Science, Engineering and Technology, 2016, , 271-281.	0.4	9
60	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.	3.3	68
61	Adaptive FEM-based nonrigid image registration using truncated hierarchical B-splines. Computers and Mathematics With Applications, 2016, 72, 2028-2040.	1.4	15
62	Centroidal Voronoi tessellation based polycube construction for adaptive all-hexahedral mesh generation. Computer Methods in Applied Mechanics and Engineering, 2016, 305, 405-421.	3.4	46
63	Hybrid-degree weighted T-splines and their application in isogeometric analysis. Computers and Fluids, 2016, 141, 42-53.	1.3	6
64	Modeling orthotropic elasticity, localized plasticity and fracture in trabecular bone. Computational Mechanics, 2016, 58, 423-439.	2.2	7
65	ComplIMAGE™14 - computational modeling of objects presented in images: fundamentals, methods and applications. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 45-45.	1.3	0
66	Isogeometric analysis based on extended Catmull-Clark subdivision. Computers and Mathematics With Applications, 2016, 71, 105-119.	1.4	32
67	Isogeometric collocation using analysis-suitable T-splines of arbitrary degree. Computer Methods in Applied Mechanics and Engineering, 2016, 301, 164-186.	3.4	42
68	Shape component analysis: structure-preserving dimension reduction on biological shape spaces. Bioinformatics, 2016, 32, 755-763.	1.8	15
69	3D shape comparison of cardiac geometries using a Laplace spectral-shape-matching approach. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 86-97.	1.3	1
70	Secondary Laplace operator and generalized Gjaquinta-Hildebrandt operator with applications on surface segmentation and smoothing. CAD Computer Aided Design, 2016, 70, 56-66.	1.4	7
71	Image segmentation and adaptive superpixel generation based on harmonic edge-weighted centroidal Voronoi tessellation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 46-60.	1.3	5
72	Shape Correspondence Analysis for Biomolecules Based on Volumetric Eigenfunctions. Computational and Mathematical Biophysics, 2015, 3, .	0.6	0

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73	Handling Extraordinary Nodes with Weighted T-spline Basis Functions. <i>Procedia Engineering</i> , 2015, 124, 161-173.	1.2	17
74	Magnetic resonance imaging-based computational modelling of blood flow and nanomedicine deposition in patients with peripheral arterial disease. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150001.	1.5	27
75	Weighted T-splines with application in reparameterizing trimmed NURBS surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 295, 108-126.	3.4	40
76	Truncated hierarchical Catmull-Clark subdivision with local refinement. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 291, 1-20.	3.4	89
77	A novel dynamic multilevel technique for image registration. <i>Computers and Mathematics With Applications</i> , 2015, 69, 909-925.	1.4	11
78	Exact 3D boundary representation in finite element analysis based on Cartesian grids independent of the geometry. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 103, 445-468.	1.5	43
79	Isogeometric analysis based on extended Loop's subdivision. <i>Journal of Computational Physics</i> , 2015, 299, 731-746.	1.9	27
80	Image segmentation of nanoscale Zernike phase contrast X-ray computed tomography images. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	21
81	Localized discrete Laplace-Beltrami operator over triangular mesh. <i>Computer Aided Geometric Design</i> , 2015, 39, 67-82.	0.5	14
82	An isogeometric collocation method using superconvergent points. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 284, 1073-1097.	3.4	97
83	Feature-preserving T-mesh construction using skeleton-based polycubes. <i>CAD Computer Aided Design</i> , 2015, 58, 162-172.	1.4	73
84	Atom Simplification and Quality T-mesh Generation for Multi-resolution Biomolecular Surfaces. <i>Lecture Notes in Computational Science and Engineering</i> , 2015, , 157-182.	0.1	1
85	An adaptive non-rigid image registration technique using hierarchical B-splines. , 2015, , 3-8.		2
86	Volumetric T-spline construction using Boolean operations. <i>Engineering With Computers</i> , 2014, 30, 425-439.	3.5	75
87	An octree-based dual contouring method for triangular and tetrahedral mesh generation with guaranteed angle range. <i>Engineering With Computers</i> , 2014, 30, 211-222.	3.5	27
88	Structure-aligned guidance estimation in surface parameterization using eigenfunction-based cross field. <i>Graphical Models</i> , 2014, 76, 691-705.	1.1	15
89	A unified method for hybrid subdivision surface design using geometric partial differential equations. <i>CAD Computer Aided Design</i> , 2014, 46, 110-119.	1.4	15
90	Volumetric T-spline Construction Using Boolean Operations. , 2014, , 405-424.		3

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91	Image Restoration of Phase Contrast Nano Scale X-ray CT Images. Lecture Notes in Computer Science, 2014, , 280-285.	1.0	2
92	Conformal solid T-spline construction from boundary T-spline representations. Computational Mechanics, 2013, 51, 1051-1059.	2.2	71
93	Modelling anisotropic material property of cerebral aneurysms for fluid-structure interaction simulation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 164-174.	1.3	8
94	Molecular and Subcellular-Scale Modeling of Nucleotide Diffusion in the Cardiac Myofilament Lattice. Biophysical Journal, 2013, 105, 2130-2140.	0.2	25
95	A novel geometric flow approach for quality improvement of multi-component tetrahedral meshes. CAD Computer Aided Design, 2013, 45, 1182-1197.	1.4	13
96	Coupled EnergyPlus and computational fluid dynamics simulation for natural ventilation. Building and Environment, 2013, 68, 100-113.	3.0	85
97	Reproducing kernel triangular B-spline-based FEM for solving PDEs. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 342-358.	3.4	41
98	Surface Curvature as a Classifier of Abdominal Aortic Aneurysms: A Comparative Analysis. Annals of Biomedical Engineering, 2013, 41, 562-576.	1.3	37
99	A three-dimensional finite element model of human atrial anatomy: New methods for cubic Hermite meshes with extraordinary vertices. Medical Image Analysis, 2013, 17, 525-537.	7.0	42
100	Challenges and Advances in Image-Based Geometric Modeling and Mesh Generation. Lecture Notes in Computational Vision and Biomechanics, 2013, , 1-10.	0.5	14
101	A robust 2-refinement algorithm in octree or rhombic dodecahedral tree based all-hexahedral mesh generation. Computer Methods in Applied Mechanics and Engineering, 2013, 256, 88-100.	3.4	28
102	Medical image interpolation based on multi-resolution registration. Computers and Mathematics With Applications, 2013, 66, 1-18.	1.4	47
103	<i>In silico</i> vascular modeling for personalized nanoparticle delivery. Nanomedicine, 2013, 8, 343-357.	1.7	66
104	Trivariate solid T-spline construction from boundary triangulations with arbitrary genus topology. CAD Computer Aided Design, 2013, 45, 351-360.	1.4	114
105	Intersection-free tetrahedral meshing from volumetric images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 100-110.	1.3	4
106	Multi-core CPU or GPU-accelerated Multiscale Modeling for Biomolecular Complexes. Computational and Mathematical Biophysics, 2013, 1, 164-179.	0.6	20
107	A Robust 2-Refinement Algorithm in Octree and Rhombic Dodecahedral Tree Based All-Hexahedral Mesh Generation. , 2013, , 155-172.		4
108	Quality Improvement of Segmented Hexahedral Meshes Using Geometric Flows. Lecture Notes in Computational Vision and Biomechanics, 2013, , 195-221.	0.5	4

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109	Mesh Processing in Medical-Image Analysis—a Tutorial. IEEE Computer Graphics and Applications, 2012, 32, 22-28.	1.0	16
110	Solid T-spline construction from boundary representations for genus-zero geometry. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 185-197.	3.4	133
111	Resolving topology ambiguity for multiple-material domains. Computer Methods in Applied Mechanics and Engineering, 2012, 247-248, 166-178.	3.4	23
112	An atlas-based geometry pipeline for cardiac Hermite model construction and diffusion tensor reorientation. Medical Image Analysis, 2012, 16, 1130-1141.	7.0	39
113	Automatic unstructured all-hexahedral mesh generation from B-Reps for non-manifold CAD assemblies. Engineering With Computers, 2012, 28, 345-359.	3.5	41
114	Matching interior and exterior all-quadrilateral meshes with guaranteed angle bounds. Engineering With Computers, 2012, 28, 375-389.	3.5	10
115	Converting an unstructured quadrilateral/hexahedral mesh to a rational T-spline. Computational Mechanics, 2012, 50, 65-84.	2.2	57
116	Dual Contouring for domains with topology ambiguity. Computer Methods in Applied Mechanics and Engineering, 2012, 217-220, 34-45.	3.4	16
117	Dynamic lung modeling and tumor tracking using deformable image registration and geometric smoothing. MCB Molecular and Cellular Biomechanics, 2012, 9, 213-26.	0.3	2
118	Conformal adaptive hexahedral-dominant mesh generation for CFD simulation in architectural design applications. , 2011, , .		1
119	Converting an unstructured quadrilateral mesh to a standard T-spline surface. Computational Mechanics, 2011, 48, 477-498.	2.2	64
120	Estimating an equivalent wall-thickness of a cerebral aneurysm through surface parameterization and a non-linear spring system. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1054-1072.	1.0	14
121	Hexagon-based all-quadrilateral mesh generation with guaranteed angle bounds. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2005-2020.	3.4	16
122	Dual Contouring for Domains with Topology Ambiguity. , 2011, , 41-60.		7
123	Guaranteed-quality all-quadrilateral mesh generation with feature preservation. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2072-2083.	3.4	34
124	Computational vascular fluid—structure interaction: methodology and application to cerebral aneurysms. Biomechanics and Modeling in Mechanobiology, 2010, 9, 481-498.	1.4	210
125	A fully-coupled fluid-structure interaction simulation of cerebral aneurysms. Computational Mechanics, 2010, 46, 3-16.	2.2	206
126	Quality improvement of non—manifold hexahedral meshes for critical feature determination of microstructure materials. International Journal for Numerical Methods in Engineering, 2010, 82, 1406-1423.	1.5	42

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127	Wavelets-based NURBS simplification and fairing. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 290-300.	3.4	45
128	An automatic 3D mesh generation method for domains with multiple materials. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 405-415.	3.4	146
129	A prototype mesh generation tool for CFD simulations in architecture domain. Building and Environment, 2010, 45, 2253-2262.	3.0	19
130	Surface smoothing and quality improvement of quadrilateral/hexahedral meshes with geometric flow. Communications in Numerical Methods in Engineering, 2009, 25, 1-18.	1.3	90
131	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.	3.4	347
132	Quality Improvement of Non-manifold Hexahedral Meshes for Critical Feature Determination of Microstructure Materials. , 2009, , 211-230.		5
133	Mesh Insertion of Hybrid Meshes. , 2009, , 359-375.		4
134	Guaranteed-Quality All-Quadrilateral Mesh Generation with Feature Preservation. , 2009, , 45-63.		7
135	Isogeometric fluid-structure interaction: theory, algorithms, and computations. Computational Mechanics, 2008, 43, 3-37.	2.2	768
136	Diffusional Channeling in the Sulfate-Activating Complex: Combined Continuum Modeling and Coarse-Grained Brownian Dynamics Studies. Biophysical Journal, 2008, 95, 4659-4667.	0.2	25
137	Determination of Wall Tension in Cerebral Artery Aneurysms by Numerical Simulation. Stroke, 2008, 39, 3172-3178.	1.0	158
138	Automatic 3D Mesh Generation for a Domain with Multiple Materials. , 2008, , 367-386.		13
139	Physically-Based Surface Texture Synthesis Using a Coupled Finite Element System. , 2008, 2008, 344-357.		1
140	Finite Element Analysis of the Time-Dependent Smoluchowski Equation for Acetylcholinesterase Reaction Rate Calculations. Biophysical Journal, 2007, 92, 3397-3406.	0.2	33
141	Dynamic data-driven finite element models for laser treatment of cancer. Numerical Methods for Partial Differential Equations, 2007, 23, 904-922.	2.0	23
142	Patient-specific vascular NURBS modeling for isogeometric analysis of blood flow. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 2943-2959.	3.4	340
143	Using Cyber-Infrastructure for Dynamic Data Driven Laser Treatment of Cancer. Lecture Notes in Computer Science, 2007, , 972-979.	1.0	6
144	Quality meshing of implicit solvation models of biomolecular structures. Computer Aided Geometric Design, 2006, 23, 510-530.	0.5	100

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145	Adaptive and quality quadrilateral/hexahedral meshing from volumetric data. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 942-960.	3.4	182
146	Immersed finite element method and its applications to biological systems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1722-1749.	3.4	240
147	Isogeometric Fluid-structure Interaction Analysis with Applications to Arterial Blood Flow. Computational Mechanics, 2006, 38, 310-322.	2.2	561
148	Optimizing heat shock protein expression induced by prostate cancer laser therapy through predictive computational models. Journal of Biomedical Optics, 2006, 11, 041113.	1.4	40
149	Patient-Specific Vascular NURBS Modeling for Isogeometric Analysis of Blood Flow. , 2006, , 73-92.		13
150	3D finite element meshing from imaging data. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 5083-5106.	3.4	155
151	Tetrameric Mouse Acetylcholinesterase: Continuum Diffusion Rate Calculations by Solving the Steady-State Smoluchowski Equation Using Finite Element Methods. Biophysical Journal, 2005, 88, 1659-1665.	0.2	31
152	Surface Smoothing and Quality Improvement of Quadrilateral/Hexahedral Meshes with Geometric Flow. , 2005, , 449-468.		30
153	Continuum Diffusion Reaction Rate Calculations of Wild-Type and Mutant Mouse Acetylcholinesterase: Adaptive Finite Element Analysis. Biophysical Journal, 2004, 87, 1558-1566.	0.2	37
154	Finite Element Solution of the Steady-State Smoluchowski Equation for Rate Constant Calculations. Biophysical Journal, 2004, 86, 2017-2029.	0.2	81
155	Adaptive and quality 3D meshing from imaging data. , 2003, , .		28
156	Dynamic analysis of large-scale flexible systems for free-free space structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 2209-2229.	1.6	2