

# Michael A Scott

## List of Publications by Year in descending order

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22  
papers

3,420  
citations

623734

14  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1831  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isogeometric B-spline dual mortar: The Kirchhoff Love shell problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 382, 113873.	6.6	6
2	Hierarchical B-spline complexes of discrete differential forms. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 422-473.	2.9	8
3	Isogeometric B-spline dual mortar: The enriched B-spline dual basis with application to second- and fourth-order problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 363, 112900.	6.6	14
4	Isogeometric boundary element methods and patch tests for linear elastic problems: Formulation, numerical integration, and applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112591.	6.6	21
5	Dynamics of a capsule flowing in a tube under pulsatile flow. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 441-450.	3.1	6
6	B-spline projection. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 335, 273-297.	6.6	10
7	A 3D isogeometric BE- $\epsilon$ FE analysis with dynamic remeshing for the simulation of a deformable particle in shear flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 326, 70-101.	6.6	14
8	Extended Truncated Hierarchical Catmull-Clark Subdivision. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 299, 316-336.	6.6	37
9	Tissue-scale, personalized modeling and simulation of prostate cancer growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7663-E7671.	7.1	68
10	Truncated hierarchical Catmull-Clark subdivision with local refinement. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 291, 1-20.	6.6	89
11	Volumetric T-spline construction using Boolean operations. <i>Engineering With Computers</i> , 2014, 30, 425-439.	6.1	75
12	Isogeometric collocation: Cost comparison with Galerkin methods and extension to adaptive hierarchical NURBS discretizations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 267, 170-232.	6.6	248
13	Isogeometric Collocation: Cost Comparison with Galerkin Methods and Extension to Adaptive Hierarchical NURBS Discretizations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013, 13, 107-108.	0.2	2
14	An isogeometric design-through-analysis methodology based on adaptive hierarchical refinement of NURBS, immersed boundary methods, and T-spline CAD surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 249-252, 116-150.	6.6	372
15	On linear independence of T-spline blending functions. <i>Computer Aided Geometric Design</i> , 2012, 29, 63-76.	1.2	184
16	A phase-field description of dynamic brittle fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 217-220, 77-95.	6.6	1,196
17	Converting an unstructured quadrilateral mesh to a standard T-spline surface. <i>Computational Mechanics</i> , 2011, 48, 477-498.	4.0	64
18	Isogeometric finite element data structures based on B-spline extraction of NURBS. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 87, 15-47.	2.8	407

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19	An isogeometric approach to cohesive zone modeling. International Journal for Numerical Methods in Engineering, 2011, 87, 336-360.	2.8	154
20	An isogeometric analysis approach to gradient damage models. International Journal for Numerical Methods in Engineering, 2011, 86, 115-134.	2.8	160
21	Isogeometric finite element data structures based on BÃ©zier extraction of TÃ©splines. International Journal for Numerical Methods in Engineering, 2011, 88, 126-156.	2.8	268
22	Improved many-to-one sweeping. International Journal for Numerical Methods in Engineering, 2006, 65, 332-348.	2.8	14