

Michael J Borden

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

3,704
citations

687363

13
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	A phase-field description of dynamic brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2012, 217-220, 77-95.	6.6	1,196
2	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
3	Isogeometric finite element data structures based on BÄ©zier extraction of NURBS. International Journal for Numerical Methods in Engineering, 2011, 87, 15-47.	2.8	407
4	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
5	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
6	Isogeometric finite element data structures based on BÄ©zier extraction of TÄ©splines. International Journal for Numerical Methods in Engineering, 2011, 88, 126-156.	2.8	268
7	Isogeometric Analysis for Topology Optimization with a Phase Field Model. Archives of Computational Methods in Engineering, 2012, 19, 427-465.	10.2	220
8	Isogeometric analysis of the advective Cahn-Hilliard equation: Spinodal decomposition under shear flow. Journal of Computational Physics, 2013, 242, 321-350.	3.8	90
9	A phase-field model for fracture in piezoelectric ceramics. International Journal of Fracture, 2013, 183, 135-153.	2.2	85
10	A phase-field model for fatigue crack growth. Journal of the Mechanics and Physics of Solids, 2019, 132, 103684.	4.8	80
11	Isogeometric collocation for phase-field fracture models. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 583-610.	6.6	74
12	Conformal Refinement and Coarsening of Unstructured Hexahedral Meshes. Journal of Computing and Information Science in Engineering, 2005, 5, 330-337.	2.7	20
13	Methods and Applications of Generalized Sheet Insertion for Hexahedral Meshing. , 2008, , 233-250.		16
14	A Selective Approach to Conformal Refinement of Unstructured Hexahedral Finite Element Meshes. , 2008, , 251-268.		15
15	Isogeometric BÄ©zier dual mortaring: The enriched BÄ©zier dual basis with application to second- and fourth-order problems. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112900.	6.6	14
16	BÄ©zier $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml49" display="inline" overflow="scroll" altimg="si6.gif" \rangle \langle \text{mml:mover accent="true" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \rangle, \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \rangle$ projection. Computer Methods in Applied Mechanics and Engineering, 2018, 335, 273-297.	6.6	10
17	Phase-Field Formulation for Ductile Fracture. Computational Methods in Applied Sciences (Springer), 2018, , 45-70.	0.3	6
18	Isogeometric BÄ©zier dual mortaring: The Kirchhoff-Love shell problem. Computer Methods in Applied Mechanics and Engineering, 2021, 382, 113873.	6.6	6

#	ARTICLE	IF	CITATIONS
19	Isogeometric Failure Analysis. , 2011, , 275-282.		1