

Emily L Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

361
citations

1039406

9
h-index

1199166

12
g-index

14
all docs

14
docs citations

14
times ranked

216
citing authors

#	ARTICLE	IF	CITATIONS
1	Penalty coupling of non-matching isogeometric Kirchhoff–Love shell patches with application to composite wind turbine blades. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 810-840.	3.4	84
2	Immersogeometric fluid–structure interaction modeling and simulation of transcatheter aortic valve replacement. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112556.	3.4	54
3	Thinner biological tissues induce leaflet flutter in aortic heart valve replacements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19007-19016.	3.3	50
4	Computational investigation of left ventricular hemodynamics following bioprosthetic aortic and mitral valve replacement. <i>Mechanics Research Communications</i> , 2021, 112, 103604.	1.0	39
5	Mechanics of the Tricuspid Valve—From Clinical Diagnosis/Treatment, In-Vivo and In-Vitro Investigations, to Patient-Specific Biomechanical Modeling. <i>Bioengineering</i> , 2019, 6, 47.	1.6	33
6	Isogeometric analysis of ice accretion on wind turbine blades. <i>Computational Mechanics</i> , 2020, 66, 311-322.	2.2	33
7	Parameterization, geometric modeling, and isogeometric analysis of tricuspid valves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113960.	3.4	22
8	A pilot <i>in silico</i> modeling-based study of the pathological effects on the biomechanical function of tricuspid valves. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3346.	1.0	16
9	Blended isogeometric Kirchhoff–Love and continuum shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114005.	3.4	13
10	Effects of membrane and flexural stiffnesses on aortic valve dynamics: Identifying the mechanics of leaflet flutter in thinner biological tissues. <i>Forces in Mechanics</i> , 2022, 6, 100053.	1.3	9
11	Buffet-Induced Structural Response Prediction of Aircraft Horizontal Stabilizers Based on Immersogeometric Analysis and an Isogeometric Blended Shell Approach. , 2022, , .		3
12	Isogeometric blended shells for dynamic analysis: simulating aircraft takeoff and the resulting fatigue damage on the horizontal stabilizer. <i>Computational Mechanics</i> , 2022, 70, 1013-1024.	2.2	3
13	An in-silico benchmark for the tricuspid heart valve – Geometry, finite element mesh, Abaqus simulation, and result data set. <i>Data in Brief</i> , 2021, 39, 107664.	0.5	2