Emily L Johnson

List of Publications by Year
in descending order

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