

Martin Ruess

List of Publications by Year in descending order

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29
papers

1,393
citations

361413

20
h-index

477307

29
g-index

29
all docs

29
docs citations

29
times ranked

704
citing authors

#	ARTICLE	IF	CITATIONS
1	Isogeometric stability analysis of thin shells: From simple geometries to engineering models. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 118, 433-458.	2.8	41
2	Multi-level hierarchical finite cell method for embedded interface problems with application in biomechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2951.	2.1	28
3	An efficient mixed variational reduced-order model formulation for nonlinear analyses of elastic shells. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 634-655.	2.8	39
4	The diffuse Nitsche method: Dirichlet constraints on phase-field boundaries. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 601-633.	2.8	18
5	On the monolithic and staggered solution of cell contractility and focal adhesion growth. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e3138.	2.1	3
6	A feedback-loop extended stress fiber growth model with focal adhesion formation. <i>International Journal of Solids and Structures</i> , 2017, 128, 160-173.	2.7	3
7	A parameter-free variational coupling approach for trimmed isogeometric thin shells. <i>Computational Mechanics</i> , 2017, 59, 693-715.	4.0	48
8	The tetrahedral finite cell method: Higher-order isogeometric analysis on adaptive non-boundary-fitted meshes. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 107, 1054-1079.	2.8	42
9	Uncertainty quantification for personalized analyses of human proximal femurs. <i>Journal of Biomechanics</i> , 2016, 49, 520-527.	2.1	12
10	An eigenanalysis-based bifurcation indicator proposed in the framework of a reduced-order modeling technique for non-linear structural analysis. <i>International Journal of Non-Linear Mechanics</i> , 2016, 81, 129-138.	2.6	20
11	Parameter-free, weak imposition of Dirichlet boundary conditions and coupling of trimmed and non-conforming patches. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 101, 670-699.	2.8	36
12	Weak Dirichlet boundary conditions for trimmed thin isogeometric shells. <i>Computers and Mathematics With Applications</i> , 2015, 70, 1425-1440.	2.7	27
13	A layerwise isogeometric approach for NURBS-derived laminate composite shells. <i>Composite Structures</i> , 2015, 124, 300-309.	5.8	40
14	A new robust design for imperfection sensitive stiffened cylinders used in aerospace engineering. <i>Science China Technological Sciences</i> , 2015, 58, 796-802.	4.0	9
15	Stacking sequence influence on imperfection sensitivity of cylindrical composite shells under axial compression. <i>Composite Structures</i> , 2015, 134, 750-761.	5.8	23
16	Nitsche's method for a coupling of isogeometric thin shells and blended shell structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 284, 881-905.	6.6	132
17	The Finite Cell Method: A Review in the Context of Higher-Order Structural Analysis of CAD and Image-Based Geometric Models. <i>Archives of Computational Methods in Engineering</i> , 2015, 22, 391-455.	10.2	218
18	Weak coupling of thin-walled multi-patch NURBS structures in the framework of isogeometric analysis. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 271-272.	0.2	1

#	ARTICLE	IF	CITATIONS
19	A contact extended isogeometric layerwise approach for the buckling analysis of delaminated composites. <i>Composite Structures</i> , 2014, 116, 55-66.	5.8	36
20	The Koiter's Newton approach using von Kármán kinematics for buckling analyses of imperfection sensitive structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 279, 440-468.	6.6	58
21	Weakly enforced essential boundary conditions for NURBS-embedded and trimmed NURBS geometries on the basis of the finite cell method. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 95, 811-846.	2.8	148
22	The Finite Cell Method for linear thermoelasticity. <i>Computers and Mathematics With Applications</i> , 2012, 64, 3527-3541.	2.7	55
23	Small and large deformation analysis with the p- and B-spline versions of the Finite Cell Method. <i>Computational Mechanics</i> , 2012, 50, 445-478.	4.0	145
24	An efficient integration technique for the voxel-based finite cell method. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 91, 457-471.	2.8	65
25	The finite cell method for bone simulations: verification and validation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 425-437.	2.8	99
26	Non-standard bone simulation: interactive numerical analysis by computational steering. <i>Computing and Visualization in Science</i> , 2011, 14, 207-216.	1.2	39
27	Application of the Finite Cell Method to patient-specific femur simulations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 117-118.	0.2	2
28	The Finite Cell Method for large deformation analysis. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 271-272.	0.2	4
29	An extended QR-solver for large profiled matrices. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 79, 1419-1442.	2.8	2