Martin Ruess

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Finite Cell Method: A Review in the Context of Higher-Order Structural Analysis of CAD and Image-Based Geometric Models. Archives of Computational Methods in Engineering, 2015, 22, 391-455. | 10.2 | 218 |
| 2 | Weakly enforced essential boundary conditions for NURBSâ€embedded and trimmed NURBS geometries on the basis of the finite cell method. International Journal for Numerical Methods in Engineering, 2013, 95, 811-846. | 2.8 | 148 |
| 3 | Small and large deformation analysis with the p- and B-spline versions of the Finite Cell Method. Computational Mechanics, 2012, 50, 445-478. | 4.0 | 145 |
| 4 | Nitsche's method for a coupling of isogeometric thin shells and blended shell structures. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 881-905. | 6.6 | 132 |
| 5 | The finite cell method for bone simulations: verification and validation. Biomechanics and Modeling in Mechanobiology, 2012, 11, 425-437. | 2.8 | 99 |
| 6 | An efficient integration technique for the voxelâ€based finite cell method. International Journal for Numerical Methods in Engineering, 2012, 91, 457-471. | 2.8 | 65 |
| 7 | The Koiter–Newton approach using von Kármán kinematics for buckling analyses of imperfection sensitive structures. Computer Methods in Applied Mechanics and Engineering, 2014, 279, 440-468. | 6.6 | 58 |
| 8 | The Finite Cell Method for linear thermoelasticity. Computers and Mathematics With Applications, 2012, 64, 3527-3541. | 2.7 | 55 |
| 9 | A parameter-free variational coupling approach for trimmed isogeometric thin shells. Computational Mechanics, 2017, 59, 693-715. | 4.0 | 48 |
| 10 | The tetrahedral finite cell method: Higherâ€order immersogeometric analysis on adaptive nonâ€boundaryâ€fitted meshes. International Journal for Numerical Methods in Engineering, 2016, 107, 1054-1079. | 2.8 | 42 |
| 11 | Isogeometric stability analysis of thin shells: From simple geometries to engineering models. International Journal for Numerical Methods in Engineering, 2019, 118, 433-458. | 2.8 | 41 |
| 12 | A layerwise isogeometric approach for NURBS-derived laminate composite shells. Composite Structures, 2015, 124, 300-309. | 5.8 | 40 |
| 13 | Non-standard bone simulation: interactive numerical analysis by computational steering. Computing and Visualization in Science, 2011, 14, 207-216. | 1.2 | 39 |
| 14 | An efficient mixed variational reducedâ€order model formulation for nonlinear analyses of elastic shells. International Journal for Numerical Methods in Engineering, 2018, 113, 634-655. | 2.8 | 39 |
| 15 | A contact extended isogeometric layerwise approach for the buckling analysis of delaminated composites. Composite Structures, 2014, 116, 55-66. | 5.8 | 36 |
| 16 | Parameter-free, weak imposition of Dirichlet boundary conditions and coupling of trimmed and non-conforming patches. International Journal for Numerical Methods in Engineering, 2015, 101, 670-699. | 2.8 | 36 |
| 17 | Multiâ€level <i>hp</i> â€finite cell method for embedded interface problems with application in biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2951. | 2.1 | 28 |
| 18 | Weak Dirichlet boundary conditions for trimmed thin isogeometric shells. Computers and Mathematics With Applications, 2015, 70, 1425-1440. | 2.7 | 27 |

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|----|--|-----|-----------|
| 19 | Stacking sequence influence on imperfection sensitivity of cylindrical composite shells under axial compression. Composite Structures, 2015, 134, 750-761. | 5.8 | 23 |
| 20 | An eigenanalysis-based bifurcation indicator proposed in the framework of a reduced-order modeling technique for non-linear structural analysis. International Journal of Non-Linear Mechanics, 2016, 81, 129-138. | 2.6 | 20 |
| 21 | The diffuse Nitsche method: Dirichlet constraints on phaseâ€field boundaries. International Journal for Numerical Methods in Engineering, 2018, 113, 601-633. | 2.8 | 18 |
| 22 | Uncertainty quantification for personalized analyses of human proximal femurs. Journal of Biomechanics, 2016, 49, 520-527. | 2.1 | 12 |
| 23 | A new robust design for imperfection sensitive stiffened cylinders used in aerospace engineering. Science China Technological Sciences, 2015, 58, 796-802. | 4.0 | 9 |
| 24 | The Finite Cell Method for large deformation analysis. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 271-272. | 0.2 | 4 |
| 25 | A feedback-loop extended stress fiber growth model with focal adhesion formation. International Journal of Solids and Structures, 2017, 128, 160-173. | 2.7 | 3 |
| 26 | On the monolithic and staggered solution of cell contractility and focal adhesion growth. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3138. | 2.1 | 3 |
| 27 | An extended QRâ€solver for large profiled matrices. International Journal for Numerical Methods in Engineering, 2009, 79, 1419-1442. | 2.8 | 2 |
| 28 | Application of the Finite Cell Method to patient-specific femur simulations. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 117-118. | 0.2 | 2 |
| 29 | Weak coupling of thin-walled multi-patch NURBS structures in the framework of isogeometric analysis. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 271-272. | 0.2 | 1 |