Marco Bittencourt

List of Publications by Year
in descending order

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Version: 2024-02-01

25 papers	264 citations	1040056 9 h-index	996975 15 g-index
26 all docs	26 docs citations	26 times ranked	226 citing authors

#	Article	IF	Citations
1	A damage phase-field model for fractional viscoelastic materials in finite strain. Computational Mechanics, 2022, 69, 1365-1393.	4.0	8
2	A Thermodynamically Consistent Phase Field Framework for Anisotropic Damage Propagation. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	1
3	A non-isothermal thermodynamically consistent phase field model for damage, fracture and fatigue evolutions in elasto-plastic materials. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112962.	6.6	27
4	An extension of Queiroz and Miyazawa's method for vertical stability in two-dimensional packing problems to deal with horizontal stability. Engineering Optimization, 2019, 51, 1049-1070.	2.6	6
5	High-order mortar-based contact element using NURBS for the mapping of contact curved surfaces. Computational Mechanics, 2019, 64, 85-112.	4.0	5
6	Comparison of semi and fully-implicit time integration schemes applied to a damage and fatigue phase field model. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	6
7	A partitioned coupling framework for peridynamics and classical theory: Analysis and simulations. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 905-931.	6.6	37
8	Hierarchical highâ€order conforming C¹ bases for quadrangular and triangular finite elements. International Journal for Numerical Methods in Engineering, 2017, 109, 936-964.	2.8	8
9	Comparison of high order finite element and discontinuous Galerkin methods for phase field equations: Application to structural damage. Computers and Mathematics With Applications, 2017, 74, 1542-1564.	2.7	10
10	A non-isothermal thermodynamically consistent phase field framework for structural damage and fatigue. Computer Methods in Applied Mechanics and Engineering, 2016, 312, 395-427.	6.6	49
11	Construction of minimum energy high-order Helmholtz bases for structured elements. Journal of Computational Physics, 2016, 306, 269-290.	3.8	6
12	High-order mortar-based element applied to nonlinear analysis of structural contact mechanics. Computer Methods in Applied Mechanics and Engineering, 2015, 294, 19-55.	6.6	11
13	A semiâ€local spectral/hp element solver for linear elasticity problems. International Journal for Numerical Methods in Engineering, 2014, 100, 347-373.	2.8	4
14	Mixed spectral/hp element formulation for nonlinear elasticity. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 42-57.	6.6	18
15	Tensor-based Gauss-Jacobi numerical integration for high-order mass and stiffness matrices. International Journal for Numerical Methods in Engineering, 2009, 79, 599-638.	2.8	3
16	Topological sensitivity analysis in large deformation problems. Structural and Multidisciplinary Optimization, 2008, 37, 149-163.	3.5	5
17	A nodal spectral stiffness matrix for the finite-element method. IMA Journal of Applied Mathematics, 2008, 73, 837-849.	1.6	1
18	Construction of shape functions for theh- andp-versions of the FEM using tensorial product. International Journal for Numerical Methods in Engineering, 2007, 71, 529-563.	2.8	8

#	Article	IF	Citations
19	Velocity fields using NURBS with distortion control for structural shape optimization. Structural and Multidisciplinary Optimization, 2006, 33, 147-159.	3.5	9
20	Fully tensorial nodal and modal shape functions for triangles and tetrahedra. International Journal for Numerical Methods in Engineering, 2005, 63, 1530-1558.	2.8	13
21	Adaptive nonâ€nested multigrid methods. Engineering Computations, 2002, 19, 158-176.	1.4	3
22	Nonnested multigrid methods for linear problems. Numerical Methods for Partial Differential Equations, 2001, 17, 313-331.	3.6	11
23	An object-oriented structural optimization program. Structural and Multidisciplinary Optimization, 2000, 20, 154-166.	3.5	7
24	Aspects on viscoelasticity modeling of HDPE using fractional derivatives: Interpolation procedures and efficient numerical scheme. Mechanics of Advanced Materials and Structures, 0, , 1-16.	2.6	1
25	Computational Solid Mechanics. , 0, , .		7