

# Marco Bittencourt

## List of Publications by Year in descending order

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25  
papers

264  
citations

1040056

9  
h-index

996975

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26  
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26  
docs citations

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times ranked

226  
citing authors

#	ARTICLE	IF	CITATIONS
1	A non-isothermal thermodynamically consistent phase field framework for structural damage and fatigue. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 312, 395-427.	6.6	49
2	A partitioned coupling framework for peridynamics and classical theory: Analysis and simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 340, 905-931.	6.6	37
3	A non-isothermal thermodynamically consistent phase field model for damage, fracture and fatigue evolutions in elasto-plastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112962.	6.6	27
4	Mixed spectral/hp element formulation for nonlinear elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 213-216, 42-57.	6.6	18
5	Fully tensorial nodal and modal shape functions for triangles and tetrahedra. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1530-1558.	2.8	13
6	Nonnested multigrid methods for linear problems. <i>Numerical Methods for Partial Differential Equations</i> , 2001, 17, 313-331.	3.6	11
7	High-order mortar-based element applied to nonlinear analysis of structural contact mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 294, 19-55.	6.6	11
8	Comparison of high order finite element and discontinuous Galerkin methods for phase field equations: Application to structural damage. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1542-1564.	2.7	10
9	Velocity fields using NURBS with distortion control for structural shape optimization. <i>Structural and Multidisciplinary Optimization</i> , 2006, 33, 147-159.	3.5	9
10	Construction of shape functions for the $h$ - and $p$ -versions of the FEM using tensorial product. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 71, 529-563.	2.8	8
11	Hierarchical high-order conforming $C^1$ bases for quadrangular and triangular finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 109, 936-964.	2.8	8
12	A damage phase-field model for fractional viscoelastic materials in finite strain. <i>Computational Mechanics</i> , 2022, 69, 1365-1393.	4.0	8
13	An object-oriented structural optimization program. <i>Structural and Multidisciplinary Optimization</i> , 2000, 20, 154-166.	3.5	7
14	<i>Computational Solid Mechanics</i> , 0, , .		7
15	Construction of minimum energy high-order Helmholtz bases for structured elements. <i>Journal of Computational Physics</i> , 2016, 306, 269-290.	3.8	6
16	Comparison of semi and fully-implicit time integration schemes applied to a damage and fatigue phase field model. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	1.0	6
17	An extension of Queiroz and Miyazawa's method for vertical stability in two-dimensional packing problems to deal with horizontal stability. <i>Engineering Optimization</i> , 2019, 51, 1049-1070.	2.6	6
18	Topological sensitivity analysis in large deformation problems. <i>Structural and Multidisciplinary Optimization</i> , 2008, 37, 149-163.	3.5	5

#	ARTICLE	IF	CITATIONS
19	High-order mortar-based contact element using NURBS for the mapping of contact curved surfaces. Computational Mechanics, 2019, 64, 85-112.	4.0	5
20	A semi-local spectral/hp element solver for linear elasticity problems. International Journal for Numerical Methods in Engineering, 2014, 100, 347-373.	2.8	4
21	Adaptive non-nested multigrid methods. Engineering Computations, 2002, 19, 158-176.	1.4	3
22	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
23	A nodal spectral stiffness matrix for the finite-element method. IMA Journal of Applied Mathematics, 2008, 73, 837-849.	1.6	1
24	A Thermodynamically Consistent Phase Field Framework for Anisotropic Damage Propagation. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	1
25	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