

Fm Andrade Pires

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

1,461

citations

18

h-index

37

g-index

76

ext. papers

1,713

ext. citations

3.7

avg, IF

4.86

L-index

#	Paper	IF	Citations
68	An assessment of multi-scale models based on second-order computational homogenisation. <i>Computers and Structures</i> , 2022 , 259, 106679	4.5	2
67	An adaptive multi-temperature isokinetic method for the RVE generation of particle reinforced heterogeneous materials, Part II: Numerical assessment and statistical analysis. <i>Mechanics of Materials</i> , 2022 , 165, 104068	3.3	
66	An efficient multiscale strategy to predict the evolution of the real contact area between rough surfaces. <i>Tribology International</i> , 2022 , 165, 107255	4.9	1
65	Formulation and numerical implementation of a variationally consistent multi-scale model based on second-order computational homogenisation at finite strains for quasi-static problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 392, 114714	5.7	1
64	Adaptivity for clustering-based reduced-order modeling of localized history-dependent phenomena. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114726	5.7	0
63	The impact of non-Gaussian height distributions on the statistics of isotropic random rough surfaces. <i>Tribology International</i> , 2022 , 107578	4.9	0
62	An invariant-based elasto-visco-plastic model for unidirectional polymer composites at finite strains. <i>International Journal of Solids and Structures</i> , 2021 , 236-237, 111292	3.1	
61	An adaptive multi-temperature isokinetic method for the RVE generation of particle reinforced heterogeneous materials, Part I: Theoretical formulation and computational framework. <i>Mechanics of Materials</i> , 2021 , 163, 104069	3.3	1
60	On the efficient enforcement of uniform traction and mortar periodic boundary conditions in computational homogenisation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 384, 113930	5.7	4
59	Torsional fretting wear experimental analysis of a R3 offshore steel against a PC/ABS blend. <i>Tribology International</i> , 2020 , 143, 106090	4.9	1
58	Representative contact element size determination for micromechanical contact analysis of self-affine topographies. <i>International Journal of Solids and Structures</i> , 2020 , 206, 262-281	3.1	5
57	Mechanical response of three semi crystalline polymers under different stress states: Experimental investigation and modelling. <i>Polymer Testing</i> , 2020 , 81, 106156	4.5	4
56	The role of elastic anisotropy on the macroscopic constitutive response and yield onset of cubic oligo- and polycrystals. <i>International Journal of Plasticity</i> , 2019 , 121, 153-200	7.6	6
55	Analyzing the failure and damage of FRP composite laminates under high strain rates considering visco-plasticity. <i>Engineering Failure Analysis</i> , 2019 , 101, 257-273	3.2	13
54	Yield behaviour of high-density polyethylene: Experimental and numerical characterization. <i>Engineering Failure Analysis</i> , 2019 , 97, 331-353	3.2	5
53	Homogenization technique for heterogeneous composite materials using meshless methods. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 92, 73-89	2.6	13
52	Microscale analysis of heterogeneous ductile materials with nonlocal damage models of integral type. <i>Computers and Structures</i> , 2018 , 201, 37-57	4.5	7

51	Constitutive modelling of mechanically induced martensitic transformations. <i>Engineering Computations</i> , 2018 , 35, 772-799	1.4	1
50	A radial point interpolation meshless method extended with an elastic rate-independent continuum damage model for concrete materials. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 855-867	1.8	6
49	A mixed parallel strategy for the solution of coupled multi-scale problems at finite strains. <i>Computational Mechanics</i> , 2018 , 61, 157-180	4	6
48	Material homogenization technique for composites: A meshless formulation. <i>Science and Technology of Materials</i> , 2018 , 30, 50-59		3
47	Prediction of the yielding behaviour of ductile porous materials through computational homogenization. <i>Engineering Computations</i> , 2018 , 35, 604-621	1.4	4
46	A meshless approach to non-local damage modelling of concrete. <i>Engineering Analysis With Boundary Elements</i> , 2017 , 79, 62-74	2.6	11
45	Finite element modeling of wear using the dissipated energy method coupled with a dual mortar contact formulation. <i>Computers and Structures</i> , 2017 , 191, 62-79	4.5	11
44	Modelling of the post yield response of amorphous polymers under different stress states. <i>International Journal of Plasticity</i> , 2017 , 88, 159-187	7.6	12
43	A note on the thermal effects upon a Gurson-type material model. <i>Continuum Mechanics and Thermodynamics</i> , 2016 , 28, 785-798	3.5	8
42	Extending a radial point interpolation meshless method to non-local constitutive damage models. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 85, 84-98	3.7	16
41	A meshless method in the non-local constitutive damage models. <i>Procedia Structural Integrity</i> , 2016 , 1, 226-233	1	6
40	Damage analysis of out of plane undulated fiber composites. <i>Composite Structures</i> , 2016 , 152, 464-476	5.3	4
39	Determination of the size of the Representative Volume Element (RVE) for the simulation of heterogeneous polymers at finite strains. <i>Finite Elements in Analysis and Design</i> , 2016 , 119, 30-44	2.2	38
38	Impact of the geometry of inclusions at the micro-scale on the overall stochastic properties. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 117-127	1.8	1
37	Intralaminar damage in polymer composites in the presence of finite fiber rotation: Part II □ Numerical analysis and validation. <i>Composite Structures</i> , 2016 , 151, 127-141	5.3	5
36	Intralaminar damage in polymer composites in the presence of finite fiber rotation: Part I □ Constitutive model. <i>Composite Structures</i> , 2016 , 151, 114-126	5.3	13
35	A Comparative Study of Failure with Incremental Forming. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032065	0.3	3
34	An elasto-viscoplastic constitutive model for polymers at finite strains: Formulation and computational aspects. <i>Computers and Structures</i> , 2016 , 166, 60-74	4.5	9

33	Numerical analysis of damage evolution for materials with tension-compression asymmetry. <i>Procedia Structural Integrity</i> , 2016 , 1, 273-280	1	2
32	Corrosion Behavior of the Friction Stir Welded AZ31 Magnesium Alloy. <i>Microscopy and Microanalysis</i> , 2015 , 21 Suppl 5, 33-4	0.5	1
31	Prediction of Forming Limit Diagrams for Materials with HCP Structure. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 1442-1451	2.5	8
30	An extended GTN model for ductile fracture under high and low stress triaxiality. <i>International Journal of Plasticity</i> , 2014 , 54, 193-228	7.6	123
29	A frictional mortar contact approach for the analysis of large inelastic deformation problems. <i>International Journal of Solids and Structures</i> , 2014 , 51, 1697-1715	3.1	21
28	Fibre steering for shear-loaded composite panels with cutouts. <i>Journal of Composite Materials</i> , 2014 , 48, 1917-1926	2.7	14
27	A mortar based approach for the enforcement of periodic boundary conditions on arbitrarily generated meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 274, 168-191	5.7	19
26	Consistent tangent operators for implicit non-local models of integral type. <i>Computers and Structures</i> , 2014 , 141, 59-73	4.5	5
25	Predicting the mechanical behavior of amorphous polymeric materials under strain through multi-scale simulation. <i>Applied Surface Science</i> , 2014 , 306, 37-46	6.7	9
24	Analysis of a cylinder-to-flat contact problem at finite elasto-plastic strains. <i>Tribology International</i> , 2014 , 79, 92-98	4.9	5
23	Assessment and comparison of non-local integral models for ductile damage. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 261-296	3	22
22	Modeling the rheology of SR1500 and LY556 epoxies under manufacturer's recommended cure cycles after viscosimetry and rheometry characterization. <i>Polymer Engineering and Science</i> , 2014 , 54, 831-839	2.3	5
21	Kinetic models for the SR1500 and LY556 epoxies under manufacturer's recommended cure cycles. <i>European Polymer Journal</i> , 2013 , 49, 3328-3336	5.2	3
20	Micromechanical analysis of polymer composites reinforced by unidirectional fibres: Part I □ Constitutive modelling. <i>International Journal of Solids and Structures</i> , 2013 , 50, 1897-1905	3.1	150
19	Micromechanical analysis of polymer composites reinforced by unidirectional fibres: Part II □ Micromechanical analyses. <i>International Journal of Solids and Structures</i> , 2013 , 50, 1906-1915	3.1	141
18	Evaluation of shear mechanisms and influence of the calibration point on the numerical results of the GTN model. <i>International Journal of Mechanical Sciences</i> , 2013 , 75, 407-422	5.5	15
17	An adaptive sub-incremental strategy for the solution of homogenization-based multi-scale problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 257, 164-182	5.7	19
16	An assessment of isotropic constitutive models for ductile fracture under high and low stress triaxiality. <i>International Journal of Plasticity</i> , 2012 , 30-31, 81-115	7.6	115

15	Numerical simulation of the non-linear deformation of 5-harness satin weaves. <i>Computational Materials Science</i> , 2012 , 61, 116-126	3.2	54
14	Study of Tool Trajectory in Incremental Forming. <i>Advanced Materials Research</i> , 2012 , 472-475, 1586-1591	1.5	12
13	Continuous-discontinuous formulation for ductile fracture. <i>International Journal of Material Forming</i> , 2011 , 4, 271-281	2	20
12	A Ductile Damage Nonlocal Model of Integral-type at Finite Strains: Formulation and Numerical Issues. <i>International Journal of Damage Mechanics</i> , 2011 , 20, 515-557	3	40
11	A comparison of shear mechanisms for the prediction of ductile failure under low stress triaxiality. <i>International Journal of Structural Integrity</i> , 2010 , 1, 314-331	1	13
10	Improvement of the numerical prediction of ductile failure with an integral nonlocal damage model. <i>International Journal of Material Forming</i> , 2009 , 2, 439-442	2	8
9	Numerical integration algorithm of a new model for metal plasticity and fracture including pressure and lode angle dependence. <i>International Journal of Material Forming</i> , 2009 , 2, 443-446	2	7
8	Sheet metal formability evaluation using continuous damage mechanics. <i>International Journal of Material Forming</i> , 2009 , 2, 463-466	2	4
7	Finite element prediction of ductile fracture in sheet metal forming processes. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 278-281	5.3	35
6	F-bar-based linear triangles and tetrahedra for finite strain analysis of nearly incompressible solids. Part I: formulation and benchmarking. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 353-383	2.4	127
5	An assessment of the average nodal volume formulation for the analysis of nearly incompressible solids under finite strains. <i>Communications in Numerical Methods in Engineering</i> , 2004 , 20, 569-583		52
4	The modelling of multi-fracturing solids and particulate media. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 60, 317-339	2.4	73
3	On the finite element prediction of damage growth and fracture initiation in finitely deforming ductile materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 5223-5256	5.7	54
2	Numerical modelling of ductile plastic damage in bulk metal forming. <i>International Journal of Mechanical Sciences</i> , 2003 , 45, 273-294	5.5	63
1	Unlocking the Potential of Second-order Computational Homogenisation: An Overview of Distinct Formulations and a Guide for their Implementation. <i>Archives of Computational Methods in Engineering</i> , 1	7.8	1