

Carlos Conceição António

List of Publications by Year in descending order

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88
papers

2,156
citations

279798

23
h-index

254184

43
g-index

90
all docs

90
docs citations

90
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of drilling glass fiber reinforced plastics (GFRP) manufactured by hand lay-up. Composites Science and Technology, 2004, 64, 289-297.	7.8	339
2	A study on milling of glass fiber reinforced plastics manufactured by hand-lay up using statistical analysis (ANOVA). Composite Structures, 2004, 64, 493-500.	5.8	125
3	Machinability study on polyetheretherketone (PEEK) unreinforced and reinforced (GF30) for applications in structural components. Composite Structures, 2003, 62, 67-73.	5.8	98
4	Optimisation of shape and process parameters in metal forging using genetic algorithms. Journal of Materials Processing Technology, 2004, 146, 356-364.	6.3	90
5	Analysis of 3D problems using a new enhanced strain hexahedral element. International Journal for Numerical Methods in Engineering, 2003, 58, 1637-1682.	2.8	86
6	Optimisation of cutting conditions in machining of aluminium matrix composites using a numerical and experimental model. Journal of Materials Processing Technology, 2001, 112, 78-82.	6.3	85
7	Drilling fiber reinforced plastics (FRPs) manufactured by hand lay-up: influence of matrix (Viapal VUP) Tj ETQq1 1 0.784314 rgBT /Overlo	6.3	82
8	Optimal drilling of particulate metal matrix composites based on experimental and numerical procedures. International Journal of Machine Tools and Manufacture, 2001, 41, 21-31.	13.4	67
9	Metal-forming process optimisation by inverse evolutionary search. Journal of Materials Processing Technology, 2002, 121, 403-413.	6.3	48
10	An approach for reliability-based robust design optimisation of angle-ply composites. Composite Structures, 2009, 90, 53-59.	5.8	47
11	From local to global importance measures of uncertainty propagation in composite structures. Composite Structures, 2008, 85, 213-225.	5.8	43
12	A hierarchical genetic algorithm for reliability based design of geometrically non-linear composite structures. Composite Structures, 2001, 54, 37-47.	5.8	42
13	A hierarchical genetic algorithm with age structure for multimodal optimal design of hybrid composites. Structural and Multidisciplinary Optimization, 2006, 31, 280-294.	3.5	42
14	A multilevel genetic algorithm for optimization of geometrically nonlinear stiffened composite structures. Structural and Multidisciplinary Optimization, 2002, 24, 372-386.	3.5	38
15	A gradient model for finite strain elastoplasticity coupled with damage. Finite Elements in Analysis and Design, 2003, 39, 1191-1235.	3.2	37
16	Correlation between geometric parameters of the left coronary artery and hemodynamic descriptors of atherosclerosis: FSI and statistical study. Medical and Biological Engineering and Computing, 2019, 57, 715-729.	2.8	37
17	Uncertainty propagation in inverse reliability-based design of composite structures. International Journal of Mechanics and Materials in Design, 2010, 6, 89-102.	3.0	33
18	Optimal cutting conditions in turning of particulate metal matrix composites based on experiment and a genetic search model. Composites Part A: Applied Science and Manufacturing, 2002, 33, 213-219.	7.6	31

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19	Toward hemodynamic diagnosis of carotid artery stenosis based on ultrasound image data and computational modeling. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 971-983.	2.8	31
20	Air temperature fields inside refrigeration cabins: A comparison of results from CFD and ANN modelling. <i>Applied Thermal Engineering</i> , 2011, 31, 1244-1251.	6.0	29
21	Optimization of metal forming processes. <i>Computers and Structures</i> , 2004, 82, 1425-1433.	4.4	27
22	Reliability-based Robust Design Optimization with the Reliability Index Approach applied to composite laminate structures. <i>Composite Structures</i> , 2019, 209, 844-855.	5.8	27
23	Inverse methods in design of industrial forging processes. <i>Journal of Materials Processing Technology</i> , 2002, 128, 266-273.	6.3	26
24	Optimal topology of urban buildings for maximization of annual solar irradiation availability using a genetic algorithm. <i>Applied Thermal Engineering</i> , 2014, 73, 424-437.	6.0	26
25	The Impact of the Right Coronary Artery Geometric Parameters on Hemodynamic Performance. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 257-270.	1.6	26
26	Reliability based design with a degradation model of laminated composite structures. <i>Structural Optimization</i> , 1996, 12, 16-28.	0.6	23
27	Strong displacement discontinuities and Lagrange multipliers in the analysis of finite displacement fracture problems. <i>Computational Mechanics</i> , 2004, 35, 54-71.	4.0	23
28	Computational simulation of carotid stenosis and flow dynamics based on patient ultrasound data “A new tool for risk assessment and surgical planning. <i>Advances in Medical Sciences</i> , 2016, 61, 32-39.	2.1	23
29	Optimisation of multi-pass cutting parameters in face-milling based on genetic search. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 44, 1106-1115.	3.0	22
30	Uncertainty assessment approach for composite structures based on global sensitivity indices. <i>Composite Structures</i> , 2013, 99, 202-212.	5.8	22
31	Uncertainty analysis based on sensitivity applied to angle-ply composite structures. <i>Reliability Engineering and System Safety</i> , 2007, 92, 1353-1362.	8.9	21
32	Optimum pre-form dies in two-stage forging. <i>Journal of Materials Processing Technology</i> , 2006, 174, 325-333.	6.3	20
33	Blood flow simulation and vascular reconstruction. <i>Journal of Biomechanics</i> , 2012, 45, 2549-2555.	2.1	20
34	Reliability-based design optimization and uncertainty quantification for optimal conditions of composite structures with non-linear behavior. <i>Engineering Structures</i> , 2017, 153, 479-490.	5.3	20
35	Eliminating Forging Defects Using Genetic Algorithms. <i>Materials and Manufacturing Processes</i> , 2005, 20, 509-522.	4.7	19
36	Optimal design of V and U bending processes using genetic algorithms. <i>Journal of Materials Processing Technology</i> , 2006, 172, 35-41.	6.3	19

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37	A study on synergy of multiple crossover operators in a hierarchical genetic algorithm applied to structural optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2009, 38, 117-135.	3.5	19
38	A memetic algorithm based on multiple learning procedures for global optimal design of composite structures. <i>Memetic Computing</i> , 2014, 6, 113-131.	4.0	19
39	Optimisation of geometrically non-linear composite structures based on load-displacement control. <i>Composite Structures</i> , 1999, 46, 345-356.	5.8	18
40	Local and global Pareto dominance applied to optimal design and material selection of composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2013, 48, 73-94.	3.5	18
41	Optimization of laminated composite structures using a bilevel strategy. <i>Composite Structures</i> , 1995, 33, 193-200.	5.8	17
42	Topology optimisation of masonry units from the thermal point of view using a genetic algorithm. <i>Construction and Building Materials</i> , 2011, 25, 2254-2262.	7.2	17
43	An efficient algorithm to estimate optimal preform die shape parameters in forging. <i>Engineering Computations</i> , 2001, 18, 1057-1077.	1.4	16
44	Artificial neural network based on genetic learning for machining of polyetheretherketone composite materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 39, 1101-1110.	3.0	16
45	A new lightweight masonry block: Thermal and mechanical performance. <i>Archives of Civil and Mechanical Engineering</i> , 2014, 14, 160-169.	3.8	16
46	Global optimal reliability index of implicit composite laminate structures by evolutionary algorithms. <i>Structural Safety</i> , 2019, 79, 54-65.	5.3	16
47	A RBRDO approach based on structural robustness and imposed reliability level. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 2411-2429.	3.5	15
48	Algorithms for the analysis of 3D finite strain contact problems. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 1107-1151.	2.8	14
49	Self-adaptation procedures in genetic algorithms applied to the optimal design of composite structures. <i>International Journal of Mechanics and Materials in Design</i> , 2009, 5, 289-302.	3.0	14
50	Robustness and reliability of composite structures: effects of different sources of uncertainty. <i>International Journal of Mechanics and Materials in Design</i> , 2019, 15, 93-107.	3.0	14
51	Optimal design of beam reinforced composite structures under elasto-plastic loading conditions. <i>Structural and Multidisciplinary Optimization</i> , 2000, 19, 50-63.	3.5	13
52	Haemodynamic conditions of patient-specific carotid bifurcation based on ultrasound imaging. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2014, 2, 157-166.	1.9	13
53	Preform optimal design in metal forging using genetic algorithms. <i>Engineering Computations</i> , 2004, 21, 631-650.	1.4	10
54	Blood Flow Simulation and Applications. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2012, , 67-86.	0.5	10

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55	Optimal design of composite shells based on minimum weight and maximum feasibility robustness. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 287-310.	3.0	9
56	Sobolâ€™ indices as dimension reduction technique in evolutionary-based reliability assessment. <i>Engineering Computations</i> , 2019, 37, 368-398.	1.4	8
57	Multilevel optimization of laminated composite structures. <i>Structural Optimization</i> , 1994, 7, 55-60.	0.6	7
58	Bi-level dominance GA for minimum weight and maximum feasibility robustness of composite structures. <i>Composite Structures</i> , 2016, 135, 83-95.	5.8	7
59	Effect of the surface treatment in polyurethane and natural leather for the footwear industry. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015, 46, 47-58.	0.9	6
60	Optimal design of adhesive composition in footwear industry based on creep rate minimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 2097-2111.	3.0	6
61	Dimensional reduction applied to the reliability-based robust design optimization of composite structures. <i>Composite Structures</i> , 2021, 255, 112937.	5.8	6
62	Optimal machining parameters based on surface roughness experimental data and genetic search. <i>Industrial Lubrication and Tribology</i> , 2005, 57, 249-254.	1.3	5
63	Sensitivity and Optimization of Peel Strength Based on Composition of Adhesives for Footwear Industry. <i>Journal of Adhesion</i> , 2015, 91, 801-822.	3.0	5
64	A displacement field approach based on FEM-ANN and experiments for identification of elastic properties of composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 4279-4291.	3.0	5
65	Multiobjective optimization of mechanical properties based on the composition of adhesives. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 1-24.	3.0	4
66	A hybrid crossover operator for structural optimisation based on commonality in genetic search. <i>Engineering Computations</i> , 2003, 20, 390-408.	1.4	3
67	Patient-Specific Study of a Stenosed Carotid Artery Bifurcation Using Fluid-Structure Interactive Simulation. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018, , 495-503.	0.5	3
68	Simulated hemodynamics in human carotid bifurcation based on Doppler ultrasound data. <i>International Journal of Clinical Neurosciences and Mental Health</i> , 2014, , S15.	0.7	3
69	Optimization of Forming Processes with Different Sheet Metal Alloys. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	2
70	Bayesian inference in validation of global MPP for the reliability analysis of composite structures. <i>International Journal of Mechanics and Materials in Design</i> , 2019, 15, 601-610.	3.0	2
71	Optimization of metal forming processes. <i>Computers and Structures</i> , 2004, 82, 1425-1425.	4.4	1
72	Surface treatment effect in thermoplastic rubber and natural leather for the footwear industry. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015, 46, 632-643.	0.9	1

#	ARTICLE	IF	CITATIONS
73	The design, properties and performance of shape optimized masonry blocks. , 2015, , 249-269.		1
74	Multi-objective Memetic Algorithm Based on Learning for Sustainable Design of FRP Composite Structure. , 2019, , 1095-1106.		1
75	Implementation and Comparison of Non-Newtonian Viscosity Models in Hemodynamic Simulations of Patient Coronary Arteries. Advanced Structured Materials, 2022, , 403-428.	0.5	1
76	Prediction of Carotid Hemodynamic Descriptors Based on Ultrasound Data and a Neural Network Model. Lecture Notes in Computational Vision and Biomechanics, 2015, , 157-171.	0.5	0
77	Analysis of Sequential Transverse B-Mode Ultrasound Images of the Carotid Artery Bifurcation. Lecture Notes in Computational Vision and Biomechanics, 2019, , 521-530.	0.5	0
78	Geometry Reconstruction of a Patient-Specific Right Coronary Artery with Atherosclerotic Plaque for CFD Study. Lecture Notes in Computational Vision and Biomechanics, 2019, , 531-539.	0.5	0
79	The synergetic effects of hybrid crossover operators in structural optimisation. , 2006, , 435-435.		0
80	Near-Optimum Carotid Disease Analysis using Ultrasound Image Data. , 0, , .		0
81	Robust Design of Composites based on Weight Minimization and Uncertainty. , 0, , .		0
82	A Memetic Algorithm for Multi-Objective Design of Composites and Material Selection. , 0, , .		0
83	Multiobjective Optimization for Sustainable Design of Fibre Reinforced Polymer Composite Structures. , 0, , .		0
84	Integrating Ultrasound Images using Modular Artificial Neural Networks. , 0, , .		0
85	Robust Design Optimization of Hybrid Composite Structures based on Evolutionary Speciation in Genetic Search. , 0, , .		0
86	Multi-Objective Self-Adaptive Genetic Search for Structural Robust Design. , 0, , .		0
87	The Design of Artificial Grafts using Multi-Objective Genetic Algorithms. , 0, , .		0
88	Reliability Assessment of Composite Structures with Multiple Failure Modes. , 0, , .		0