

Bernardo Zuccarello

List of Publications by Year in descending order

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all docs

57
docs citations

57
times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring Multiple Residual-Stress Components using the Contour Method and Multiple Cuts. <i>Experimental Mechanics</i> , 2010, 50, 187-194.	2.0	124
2	Measuring Inaccessible Residual Stresses Using Multiple Methods and Superposition. <i>Experimental Mechanics</i> , 2011, 51, 1123-1134.	2.0	98
3	Numerical experimental analysis of hybrid double lap aluminum-CFRP joints. <i>Composites Part B: Engineering</i> , 2015, 71, 28-39.	12.0	88
4	Experimental and numerical evaluation of the mechanical behaviour of GFRP sandwich panels. <i>Composite Structures</i> , 2007, 81, 575-586.	5.8	85
5	Optimal calculation steps for the evaluation of residual stress by the incremental hole-drilling method. <i>Experimental Mechanics</i> , 1999, 39, 117-124.	2.0	78
6	Fatigue life prediction under wide band random loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 1183-1195.	3.4	70
7	An analysis of through-thickness residual stresses in aluminium FSW butt joints. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 611-619.	13.4	60
8	Local Reinforcement Effect of a Strain Gauge Installation on Low Modulus Materials. <i>Journal of Strain Analysis for Engineering Design</i> , 2005, 40, 643-653.	1.8	54
9	Determination of Nonuniform Residual Stresses Using the Ring-Core Method. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1996, 118, 224-228.	1.4	46
10	Analysis and optimization of hybrid double lap aluminum-GFRP joints. <i>Composite Structures</i> , 2014, 116, 682-693.	5.8	45
11	Rapid evaluation of notch stress intensity factors using the peak stress method: Comparison of commercial finite element codes for a range of mesh patterns. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 1044-1063.	3.4	41
12	Residual Stress Analysis of Orthotropic Materials by the Through-hole Drilling Method. <i>Experimental Mechanics</i> , 2007, 47, 217-236.	2.0	39
13	Optimal manufacturing and mechanical characterization of high performance biocomposites reinforced by sisal fibers. <i>Composite Structures</i> , 2018, 194, 575-583.	5.8	37
14	Experimental analysis and micromechanical models of high performance renewable agave reinforced biocomposites. <i>Composites Part B: Engineering</i> , 2017, 119, 141-152.	12.0	36
15	Low-velocity impact behaviour of green epoxy biocomposite laminates reinforced by sisal fibers. <i>Composite Structures</i> , 2020, 253, 112744.	5.8	35
16	Toward high performance renewable agave reinforced biocomposites: Optimization of fiber performance and fiber-matrix adhesion analysis. <i>Composites Part B: Engineering</i> , 2017, 122, 109-120.	12.0	32
17	On the estimation of the fatigue cycle distribution from spectral density data. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1999, 213, 819-831.	2.1	28
18	Error and Uncertainty Analysis of the Residual Stresses Computed by Using the Hole Drilling Method. <i>Strain</i> , 2011, 47, 301-312.	2.4	27

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19	Random short sisal fiber biocomposites: Optimal manufacturing process and reliable theoretical models. <i>Materials and Design</i> , 2018, 149, 87-100.	7.0	27
20	Optimization of depth increment distribution in the ring-core method. <i>Journal of Strain Analysis for Engineering Design</i> , 1996, 31, 251-258.	1.8	26
21	Implementation of eco-sustainable biocomposite materials reinforced by optimized agave fibers. <i>Procedia Structural Integrity</i> , 2018, 8, 526-538.	0.8	25
22	On the Characterization of Dynamic Properties of Random Processes by Spectral Parameters. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2000, 67, 519-526.	2.2	24
23	The influence of the quarter wave plates in automated photoelasticity. <i>Optics and Lasers in Engineering</i> , 2002, 38, 31-56.	3.8	24
24	Known Residual Stress Specimens Using Opposed Indentation. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2009, 131, .	1.4	24
25	On the effects of a crack propagating toward the interface of a bimaterial system. <i>Engineering Fracture Mechanics</i> , 2006, 73, 1264-1277.	4.3	21
26	Stiffness and Reinforcement Effect of Electrical Resistance Strain Gauges. <i>Strain</i> , 2007, 43, 299-305.	2.4	20
27	Numerical model for the characterization of biocomposites reinforced by sisal fibres. <i>Procedia Structural Integrity</i> , 2018, 8, 517-525.	0.8	18
28	Limitation of carrier fringe methods in digital photoelasticity. <i>Optics and Lasers in Engineering</i> , 2007, 45, 631-636.	3.8	17
29	Limitation of fourier transform photoelasticity: Influence of isoclinics. <i>Experimental Mechanics</i> , 2000, 40, 384-392.	2.0	16
30	Full field automated evaluation of the quarter wave plate retardation by phase stepping technique. <i>Optics and Lasers in Engineering</i> , 2002, 37, 389-400.	3.8	16
31	Toward a design method for metal-composite co-cured joints based on the G-SIFs. <i>Composites Part B: Engineering</i> , 2013, 45, 631-643.	12.0	16
32	Rapid evaluation of notch stress intensity factors using the peak stress method with 3D tetrahedral finite element models: Comparison of commercial codes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 1005-1034.	3.4	16
33	An accurate method to predict the stress concentration in composite laminates with a circular hole under tensile loading. <i>Mechanics of Composite Materials</i> , 2007, 43, 359-376.	1.4	15
34	Photoelastic stress pattern analysis using Fourier transform with carrier fringes: influence of quarter-wave plate error. <i>Optics and Lasers in Engineering</i> , 2002, 37, 401-416.	3.8	14
35	New Concept in Bioderived Composites: Biochar as Toughening Agent for Improving Performances and Durability of Agave-Based Epoxy Biocomposites. <i>Polymers</i> , 2021, 13, 198.	4.5	13
36	Influence of the anisotropy of sisal fibers on the mechanical properties of high performance unidirectional biocomposite lamina and micromechanical models. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 143, 106320.	7.6	13

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37	A new calculation procedure for non-uniform residual stress analysis by the hole-drilling method. <i>Journal of Strain Analysis for Engineering Design</i> , 1998, 33, 27-37.	1.8	12
38	Fatigue delamination experiments on GFRP and CFRP specimens under single and mixed fracture modes. <i>Procedia Engineering</i> , 2011, 10, 1791-1796.	1.2	12
39	Static strength and fatigue life of optimized hybrid single lap aluminum-CFRP structural joints. <i>Journal of Adhesion</i> , 2018, 94, 501-528.	3.0	12
40	MODIFICATION OF THE RECTILINEAR GROOVE METHOD FOR THE ANALYSIS OF UNIFORM RESIDUAL STRESSES. <i>Experimental Techniques</i> , 1997, 21, 25-29.	1.5	11
41	A novel frequency domain method for predicting fatigue crack growth under wide band random loading. <i>International Journal of Fatigue</i> , 2007, 29, 1065-1079.	5.7	11
42	Mode I translaminar fracture toughness of high performance laminated biocomposites reinforced by sisal fibers: Accurate measurement approach and lay-up effects. <i>Composites Science and Technology</i> , 2022, 217, 109089.	7.8	11
43	Effect of plasticity on the residual stress measurement using the groove method. <i>Strain</i> , 1996, 32, 97-104.	2.4	10
44	Error and Uncertainty Analysis of Non-Uniform Residual Stress Evaluation by Using the Ring-Core Method. <i>Experimental Mechanics</i> , 2016, 56, 1531-1546.	2.0	10
45	Numerical-experimental Method for the Analysis of Residual Stresses in Cold-expanded Holes. <i>Experimental Mechanics</i> , 2013, 53, 673-686.	2.0	9
46	The Reinforcement Effect of Strain Gauges Embedded in Low Modulus Materials. <i>Strain</i> , 2013, 49, 366-376.	2.4	8
47	Analysis of the Parameters Affecting the Stiffness of Short Sisal Fiber Biocomposites Manufactured by Compression-Molding. <i>Polymers</i> , 2022, 14, 154.	4.5	8
48	Local reinforcement effect of embedded strain gauges. <i>EPJ Web of Conferences</i> , 2010, 6, 13003.	0.3	6
49	Enhancement of Static and Fatigue Strength of Short Sisal Fiber Biocomposites by Low Fraction Nanotubes. <i>Applied Composite Materials</i> , 2021, 28, 91-112.	2.5	6
50	Use of automated photoelasticity to determine stress intensity factors of bimaterial joints. <i>Journal of Strain Analysis for Engineering Design</i> , 2005, 40, 785-800.	1.8	5
51	Static and Dynamic Mechanical Properties of Eco-friendly Polymer Composites. , 2019, , 259-292.		5
52	Basalt Fiber Hybridization Effects on High-Performance Sisal-Reinforced Biocomposites. <i>Polymers</i> , 2022, 14, 1457.	4.5	5
53	Analysis of the accuracy of fiber-optic strain transducers installed by using composite smart patches. <i>Journal of Strain Analysis for Engineering Design</i> , 2015, 50, 373-385.	1.8	4
54	Complete Isochromatic Fringe-order Analysis in Digital Photoelasticity by Fourier Transform and Load Stepping. <i>Strain</i> , 2005, 41, 49-58.	2.4	2

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55	On the Stiffness and the Reinforcement Effect of Electrical Resistance Strain Gauges. Applied Mechanics and Materials, 2005, 3-4, 349-354.	0.2	2
56	Influence of the Resin Layer Thickness at the Interface of Hybrid Metal-composite Co-cured Joints. Procedia Engineering, 2011, 10, 3775-3786.	1.2	2
57	Use of Hybrid Methods (Hole-Drilling and Ring-Core) for the Analysis of the RS on Welded Joints. , 0, , .		0