

Eugenio Guglielmino

List of Publications by Year in descending order

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80
papers

2,098
citations

172457

29
h-index

243625

44
g-index

81
all docs

81
docs citations

81
times ranked

1590
citing authors

#	ARTICLE	IF	CITATIONS
1	Collapse modes in aluminium honeycomb sandwich panels under bending and impact loading. International Journal of Impact Engineering, 2012, 43, 6-15.	5.0	189
2	Comparison of aluminium sandwiches for lightweight ship structures: Honeycomb vs. foam. Marine Structures, 2013, 30, 74-96.	3.8	171
3	Static behavior of lattice structures produced via direct metal laser sintering technology. Materials and Design, 2017, 135, 246-256.	7.0	109
4	Fatigue analysis of butt welded AH36 steel joints: Thermographic Method and design S-N curve. Marine Structures, 2009, 22, 373-386.	3.8	79
5	In plane compressive response and crushing of foam filled aluminum honeycombs. Journal of Composite Materials, 2015, 49, 3215-3228.	2.4	72
6	Prediction model for the impact response of glass fibre reinforced aluminium foam sandwiches. International Journal of Impact Engineering, 2015, 77, 97-107.	5.0	68
7	Single and double-layer honeycomb sandwich panels under impact loading. International Journal of Impact Engineering, 2018, 121, 77-90.	5.0	67
8	FEM Analysis of Mandibular Prosthetic Overdenture Supported by Dental Implants: Evaluation of Different Retention Methods. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-16.	1.3	62
9	Crack-tip thermal and mechanical hysteresis in Shape Memory Alloys under fatigue loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 281-287.	5.6	61
10	Finite element analysis of foam-filled honeycomb structures under impact loading and crashworthiness design. International Journal of Crashworthiness, 2016, 21, 148-160.	1.9	52
11	Damage analysis in Fe-Cr-Ni centrifugally cast alloy tubes for reforming furnaces. Engineering Failure Analysis, 2014, 36, 65-74.	4.0	51
12	Influence of microstructure [α + β and β] on very high cycle fatigue behaviour of Ti-6Al-4V alloy. International Journal of Fatigue, 2017, 95, 64-75.	5.7	49
13	Fatigue assessment of welded joints using critical distance and other methods. Engineering Failure Analysis, 2005, 12, 129-142.	4.0	48
14	Quantitative Thermographic Methodology for fatigue life assessment in a multiscale energy dissipation framework. International Journal of Fatigue, 2015, 81, 249-256.	5.7	48
15	Experimental analyses of SFRP material under static and fatigue loading by means of thermographic and DIC techniques. Composites Part B: Engineering, 2015, 77, 268-277.	12.0	46
16	Energy-based approach for fatigue life prediction of pure copper. International Journal of Fatigue, 2017, 104, 243-250.	5.7	40
17	Full-field analysis of AL/FE explosive welded joints for shipbuilding applications. Marine Structures, 2018, 57, 207-218.	3.8	40
18	Impact Response of Aluminum Foam Sandwiches for Light-Weight Ship Structures. Metals, 2011, 1, 98-112.	2.3	39

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19	FEM evaluation of cemented-retained versus screw-retained dental implant single-tooth crown prosthesis. <i>International Journal of Clinical and Experimental Medicine</i> , 2014, 7, 817-25.	1.3	38
20	Theoretical and experimental analysis for the impact response of glass fibre reinforced aluminium honeycomb sandwiches. <i>Journal of Sandwich Structures and Materials</i> , 2018, 20, 42-69.	3.5	37
21	FEM and Von Mises analyses of different dental implant shapes for masticatory loading distribution. <i>ORAL and Implantology</i> , 2014, 7, 1-10.	0.3	36
22	Neural-Network-Based System for Novel Fault Detection in Rotating Machinery. <i>JVC/Journal of Vibration and Control</i> , 2004, 10, 1137-1150.	2.6	35
23	Numerical analysis of bone adaptation around an oral implant due to overload stress. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2004, 218, 407-415.	1.8	35
24	Computed tomography-based reconstruction and finite element modelling of honeycomb sandwiches under low-velocity impacts. <i>Journal of Sandwich Structures and Materials</i> , 2014, 16, 377-397.	3.5	34
25	Fatigue assessment of a marine structural steel and comparison with Thermographic Method and Static Thermographic Method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 734-743.	3.4	34
26	Fatigue analysis of marine welded joints by means of DIC and IR images during static and fatigue tests. <i>Engineering Fracture Mechanics</i> , 2017, 183, 26-38.	4.3	33
27	Non linear finite element simulation of explosive welded joints of dissimilar metals for shipbuilding applications. <i>Ocean Engineering</i> , 2018, 160, 346-353.	4.3	32
28	Infrared investigations for the analysis of low cycle fatigue processes in carbon steels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 833-842.	2.1	31
29	Analysis of temperature and fracture surface of AISI4140 steel in very high cycle fatigue regime. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 22-30.	4.7	29
30	Different Methods for Fatigue Assessment of T Welded Joints Used in Ship Structures. <i>Journal of Ship Research</i> , 2007, 51, 150-159.	1.1	25
31	Thermographic method for very high cycle fatigue design in transportation engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 1260-1270.	2.1	24
32	Influence of Heat Treatments on Mechanical Behavior of FV520B Steel. <i>Experimental Techniques</i> , 2015, 39, 55-64.	1.5	23
33	Experimental investigation on Iroko wood used in shipbuilding. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 128-139.	2.1	23
34	Experimental and numerical analysis of fillet-welded joints under low-cycle fatigue loading by means of full-field techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 1327-1338.	2.1	22
35	Experimental and theoretical analyses of Iroko wood laminates. <i>Composites Part B: Engineering</i> , 2017, 112, 251-264.	12.0	21
36	A thermography-based approach for structural analysis and fatigue evaluation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 1173-1185.	2.1	20

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37	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. Experimental Techniques, 2016, 40, 555-568.	1.5	17
38	Thermographic analysis during tensile tests and fatigue assessment of S355 steel. Procedia Structural Integrity, 2019, 18, 280-286.	0.8	17
39	Computed tomography analysis of impact response of lightweight sandwich panels with micro lattice core. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1348-1362.	2.1	15
40	The choice of thermal analysis to evaluate the monoaxial fatigue strength on materials and mechanical components. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 1315-1326.	2.1	13
41	Fatigue Assessment by Thermal Analysis During Tensile Tests on Steel. Procedia Engineering, 2015, 109, 210-218.	1.2	12
42	Evaluation of mechanical properties of polyethylene for pipes by energy approach during tensile and fatigue tests. Procedia Structural Integrity, 2018, 13, 1663-1669.	0.8	11
43	Definition of the linearity loss of the surface temperature in static tensile tests. Frattura Ed Integrita Strutturale, 2014, 8, 201-210.	0.9	10
44	Subject-specific finite element analysis of a lumbar cage produced by electron beam melting. Medical and Biological Engineering and Computing, 2019, 57, 2771-2781.	2.8	10
45	Aluminum honeycomb sandwich for protective structures of earth moving machines. Procedia Structural Integrity, 2018, 8, 332-344.	0.8	9
46	Thermal Emission analysis to predict damage in specimens of High Strength Concrete. Frattura Ed Integrita Strutturale, 2021, 15, 258-270.	0.9	9
47	Sensitivity of Suspension System Performance to Bushing Stiffness Variation - An Evaluation Methodology. , 0, , .		8
48	Structural optimization of a motorcycle chassis by pattern search algorithm. Engineering Optimization, 2017, 49, 1373-1387.	2.6	8
49	Fatigue characterization of mechanical components in service. Frattura Ed Integrita Strutturale, 2013, 7, 143-155.	0.9	7
50	Investigation of very high cycle fatigue by thermographic method. Frattura Ed Integrita Strutturale, 2014, 8, 569-577.	0.9	7
51	Creep damage of high alloyed reformer tubes. , 2016, , 69-91.		7
52	Measuring the static shear strength of anaerobic adhesives in finite thickness under high pressure. Journal of Adhesion, 2021, 97, 783-800.	3.0	7
53	Fatigue life prediction of high strength steel welded joints by Energy Approach. Procedia Structural Integrity, 2016, 2, 2156-2163.	0.8	6
54	Fatigue assessment by energy approach during tensile and fatigue tests on PPGF35. Procedia Structural Integrity, 2017, 3, 424-431.	0.8	6

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55	Energetic approach for the fatigue assessment of PE100. <i>Procedia Structural Integrity</i> , 2020, 26, 306-312.	0.8	6
56	A new approach to the analysis of fatigue parameters by thermal variations during tensile tests on steel. <i>Procedia Structural Integrity</i> , 2019, 24, 651-657.	0.8	5
57	Influence of Weld-Porosity Defects on Fatigue Strength of AH36 Butt Joints Used in Ship Structures. <i>Metals</i> , 2021, 11, 444.	2.3	5
58	Correlation between mechanical behaviour and microstructural features of AISI 316L produced by SLM. <i>Procedia Structural Integrity</i> , 2022, 41, 199-207.	0.8	5
59	THERMAL INFRARED ANALYSIS OF PLASTICS UNDER MONOAXIAL LOADS. <i>Experimental Techniques</i> , 1996, 20, 9-13.	1.5	4
60	Total hip arthroplasty by using a cementless ultrashort stem: A subject-specific finite element analysis for a young patient clinical case. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 757-766.	1.8	4
61	A platform for integrated data processing from heterogeneous devices in naval field. , 2009, , .		3
62	A CAE method for ergonomic assessment of motorcyclesâ€™ driver and passenger. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 699-712.	2.2	3
63	Damage assessment of topping furnaces radiant tubes and creep behaviour of ASTM A335 P5 steel. <i>Materials at High Temperatures</i> , 2020, 37, 81-88.	1.0	3
64	On the bending of pretwisted bars by a terminal transverse load. <i>International Journal of Engineering Science</i> , 1996, 34, 1285-1299.	5.0	2
65	Influence of Quick Ageing on the Fatigue Behaviour of SMC Composite Materials. <i>Journal of Reinforced Plastics and Composites</i> , 2001, 20, 147-165.	3.1	2
66	Theoretical Approach for Developing the Thermographic Method in Ultrasonic Fatigue. <i>Procedia Structural Integrity</i> , 2016, 2, 1221-1228.	0.8	2
67	Mechanical buckling analysis of explosive welded joints used in shipbuilding. <i>International Shipbuilding Progress</i> , 2019, 66, 17-34.	0.4	2
68	Using Infrared Thermography in Effect Evaluation of Heat Treatments on Martensitic Steel. <i>Advanced Science Letters</i> , 2012, 16, 305-308.	0.2	2
69	Optical psychrometer for relative humidity measurement in non-conventional environments. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
70	FE analysis of cruciform welded joints considering different mechanical properties for base material, heat affected zone and weld metal. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 304-310.	0.9	1
71	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. <i>Experimental Techniques</i> , 2014, 40, n/a-n/a.	1.5	1
72	Rapid Energetic Approaches for the Fatigue Limit assessment in a medium carbon steel. <i>Procedia Structural Integrity</i> , 2021, 33, 748-756.	0.8	1

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73	A comparison on the Energy Release between traditional and Additive Manufactured AISI 316L steel during static tensile test. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012013.	0.6	1
74	Rapid Determination of the Fatigue Behavior at Different Stress Ratios of Steels by Measuring the Energy Release. Lecture Notes in Civil Engineering, 2023, , 589-599.	0.4	1
75	Predicting the Macroscopic Shear Strength of Tightened-Bonded Joints from the Intrinsic High-Pressure Properties of Anaerobic Adhesives. Metals, 2022, 12, 1141.	2.3	1
76	A CAE analysis of a novel rigid inflatable boat. International Journal on Interactive Design and Manufacturing, 2020, 14, 7-17.	2.2	0
77	Fatigue assessment of Ti-6Al-4V titanium alloy laser welded joints in absence of filler material by means of full-field techniques. Frattura Ed Integrita Strutturale, 2018, 12, 171-181.	0.9	0
78	Fatigue damage assessment of welded HDPE details evaluating their energy release. Procedia Structural Integrity, 2021, 33, 724-733.	0.8	0
79	An interactive approach for the design of an Italian fast medical support ship as consequence of world emergency due to Sars2-Covid 19. International Journal on Interactive Design and Manufacturing, 2022, 16, 409-417.	2.2	0
80	An experimentally-based procedure for residual life assessment of steel radiant tubes. International Journal of Pressure Vessels and Piping, 2022, , 104628.	2.6	0