

Gabriella Epasto

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,646
citations

304368

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301761

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1202
citing authors

#	ARTICLE	IF	CITATIONS
1	First lamina hybridization of high performance CFRP with Kevlar fibers: Effect on impact behavior and nondestructive evaluation. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 1207-1222.	1.5	4
2	Lightweight sandwich structures for marine applications: a review. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 4839-4864.	1.5	102
3	Aluminium honeycomb sandwich as a design alternative for lightweight marine structures. <i>Ships and Offshore Structures</i> , 2022, 17, 2355-2366.	0.9	10
4	Impact behaviour and non destructive evaluation of 3D printed reinforced composites. <i>Composite Structures</i> , 2022, 281, 115112.	3.1	12
5	Additively manufactured lightweight monitoring drones: Design and experimental investigation. <i>Polymer</i> , 2022, 241, 124557.	1.8	6
6	Mechanical and morphological characterization of BCC - derived unit cells for biomedical devices. <i>Procedia Structural Integrity</i> , 2022, 41, 470-485.	0.3	3
7	Microstructure and mechanical properties of specimens produced using the wire-arc additive manufacturing process. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 1788-1798.	1.1	10
8	Nondestructive Evaluation of Aluminium Foam Panels Subjected to Impact Loading. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1148.	1.3	8
9	Laser Ultrasonics Inspection of Train Wheel - Evaluation of Optimized Setup. <i>Lecture Notes in Civil Engineering</i> , 2021, , 195-204.	0.3	0
10	Influence of Weld-Porosity Defects on Fatigue Strength of AH36 Butt Joints Used in Ship Structures. <i>Metals</i> , 2021, 11, 444.	1.0	5
11	Design and optimization of Metallic Foam Shell protective device against flying ballast impact damage in railway axles. <i>Materials and Design</i> , 2020, 196, 109120.	3.3	22
12	Low-velocity impact behaviour of green epoxy biocomposite laminates reinforced by sisal fibers. <i>Composite Structures</i> , 2020, 253, 112744.	3.1	35
13	Laser ultrasonics for defect evaluation on coated railway axles. <i>NDT and E International</i> , 2020, 116, 102321.	1.7	24
14	Lightweight Aluminium Sandwich Structures for Marine Vehicles. <i>Progress in Marine Science and Technology</i> , 2020, , .	0.1	2
15	Laser ultrasonics inspection for defect evaluation on train wheel. <i>NDT and E International</i> , 2019, 107, 102145.	1.7	38
16	Collapse modes of aluminium honeycomb sandwich structures under fatigue bending loading. <i>Thin-Walled Structures</i> , 2019, 145, 106363.	2.7	47
17	Experimental investigation of rhombic dodecahedron micro-lattice structures manufactured by Electron Beam Melting. <i>Materials Today: Proceedings</i> , 2019, 7, 578-585.	0.9	12
18	Failure analysis of anti-friction coating for cylinder blocks in axial piston pumps. <i>Engineering Failure Analysis</i> , 2019, 104, 126-138.	1.8	25

#	ARTICLE	IF	CITATIONS
19	Ti-6Al-4V ELI microlattice structures manufactured by electron beam melting: Effect of unit cell dimensions and morphology on mechanical behaviour. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 31-41.	2.6	52
20	Subject-specific finite element analysis of a lumbar cage produced by electron beam melting. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2771-2781.	1.6	10
21	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.	2.0	37
22	Guest editorial for the special issue on "Lightweight Design in Transportation Engineering". <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 1345-1347.	1.1	0
23	Aluminum honeycomb sandwich for protective structures of earth moving machines. <i>Procedia Structural Integrity</i> , 2018, 8, 332-344.	0.3	9
24	Computed tomography analysis of impact response of lightweight sandwich panels with micro lattice core. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 1348-1362.	1.1	15
25	Numerical and experimental investigation of corrugated tubes under lateral compression. <i>International Journal of Crashworthiness</i> , 2018, 23, 461-473.	1.1	29
26	Single and double-layer honeycomb sandwich panels under impact loading. <i>International Journal of Impact Engineering</i> , 2018, 121, 77-90.	2.4	67
27	Experimental and theoretical analyses of Iroko wood laminates. <i>Composites Part B: Engineering</i> , 2017, 112, 251-264.	5.9	21
28	Static behavior of lattice structures produced via direct metal laser sintering technology. <i>Materials and Design</i> , 2017, 135, 246-256.	3.3	109
29	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.	2.0	33
30	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.	1.1	23
31	Influence of microstructure [α + β and β] on very high cycle fatigue behaviour of Ti-6Al-4V alloy. <i>International Journal of Fatigue</i> , 2017, 95, 64-75.	2.8	49
32	Fatigue life prediction of high strength steel welded joints by Energy Approach. <i>Procedia Structural Integrity</i> , 2016, 2, 2156-2163.	0.3	6
33	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. <i>Experimental Techniques</i> , 2016, 40, 555-568.	0.9	17
34	Finite element analysis of foam-filled honeycomb structures under impact loading and crashworthiness design. <i>International Journal of Crashworthiness</i> , 2016, 21, 148-160.	1.1	52
35	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.	1.1	24
36	Fatigue Assessment by Thermal Analysis During Tensile Tests on Steel. <i>Procedia Engineering</i> , 2015, 109, 210-218.	1.2	12

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37	Analysis of temperature and fracture surface of AISI4140 steel in very high cycle fatigue regime. Theoretical and Applied Fracture Mechanics, 2015, 80, 22-30.	2.1	29
38	In plane compressive response and crushing of foam filled aluminum honeycombs. Journal of Composite Materials, 2015, 49, 3215-3228.	1.2	72
39	Prediction model for the impact response of glass fibre reinforced aluminium foam sandwiches. International Journal of Impact Engineering, 2015, 77, 97-107.	2.4	68
40	Investigation of very high cycle fatigue by thermographic method. Frattura Ed Integrita Strutturale, 2014, 8, 569-577.	0.5	7
41	Computed tomography-based reconstruction and finite element modelling of honeycomb sandwiches under low-velocity impacts. Journal of Sandwich Structures and Materials, 2014, 16, 377-397.	2.0	34
42	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. Experimental Techniques, 2014, 40, n/a-n/a.	0.9	1
43	Comparison of aluminium sandwiches for lightweight ship structures: Honeycomb vs. foam. Marine Structures, 2013, 30, 74-96.	1.6	171
44	Total hip arthroplasty by using a cementless ultrashort stem: A subject-specific finite element analysis for a young patient clinical case. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 757-766.	1.0	4
45	Collapse modes in aluminium honeycomb sandwich panels under bending and impact loading. International Journal of Impact Engineering, 2012, 43, 6-15.	2.4	189
46	Impact Response of Aluminum Foam Sandwiches for Light-Weight Ship Structures. Metals, 2011, 1, 98-112.	1.0	39
47	Computed Tomography analysis of damage in composites subjected to impact loading. Frattura Ed Integrita Strutturale, 2011, 5, 32-41.	0.5	14
48	Evaluation of fire-damaged concrete using impact-echo method. Materials and Structures/Materiaux Et Constructions, 2010, 43, 235-245.	1.3	47