

Gabriella Epasto

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,646
citations

304368

22
h-index

301761

39
g-index

49
all docs

49
docs citations

49
times ranked

1202
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.	2.4	189
2	Comparison of aluminium sandwiches for lightweight ship structures: Honeycomb vs. foam. Marine Structures, 2013, 30, 74-96.	1.6	171
3	Static behavior of lattice structures produced via direct metal laser sintering technology. Materials and Design, 2017, 135, 246-256.	3.3	109
4	Lightweight sandwich structures for marine applications: a review. Mechanics of Advanced Materials and Structures, 2022, 29, 4839-4864.	1.5	102
5	In plane compressive response and crushing of foam filled aluminum honeycombs. Journal of Composite Materials, 2015, 49, 3215-3228.	1.2	72
6	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
7	Single and double-layer honeycomb sandwich panels under impact loading. International Journal of Impact Engineering, 2018, 121, 77-90.	2.4	67
8	Finite element analysis of foam-filled honeycomb structures under impact loading and crashworthiness design. International Journal of Crashworthiness, 2016, 21, 148-160.	1.1	52
9	Ti-6Al-4V ELI microlattice structures manufactured by electron beam melting: Effect of unit cell dimensions and morphology on mechanical behaviour. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 31-41.	2.6	52
10	Influence of microstructure [alpha+beta and beta] on very high cycle fatigue behaviour of Ti-6Al-4V alloy. International Journal of Fatigue, 2017, 95, 64-75.	2.8	49
11	Evaluation of fire-damaged concrete using impact-echo method. Materials and Structures/Materiaux Et Constructions, 2010, 43, 235-245.	1.3	47
12	Collapse modes of aluminium honeycomb sandwich structures under fatigue bending loading. Thin-Walled Structures, 2019, 145, 106363.	2.7	47
13	Impact Response of Aluminum Foam Sandwiches for Light-Weight Ship Structures. Metals, 2011, 1, 98-112.	1.0	39
14	Laser ultrasonics inspection for defect evaluation on train wheel. NDT and E International, 2019, 107, 102145.	1.7	38
15	Theoretical and experimental analysis for the impact response of glass fibre reinforced aluminium honeycomb sandwiches. Journal of Sandwich Structures and Materials, 2018, 20, 42-69.	2.0	37
16	Low-velocity impact behaviour of green epoxy biocomposite laminates reinforced by sisal fibers. Composite Structures, 2020, 253, 112744.	3.1	35
17	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
18	Fatigue analysis of marine welded joints by means of DIC and IR images during static and fatigue tests. Engineering Fracture Mechanics, 2017, 183, 26-38.	2.0	33

#	ARTICLE	IF	CITATIONS
19	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
20	Numerical and experimental investigation of corrugated tubes under lateral compression. International Journal of Crashworthiness, 2018, 23, 461-473.	1.1	29
21	Failure analysis of anti-friction coating for cylinder blocks in axial piston pumps. Engineering Failure Analysis, 2019, 104, 126-138.	1.8	25
22	Thermographic method for very high cycle fatigue design in transportation engineering. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 1260-1270.	1.1	24
23	Laser ultrasonics for defect evaluation on coated railway axles. NDT and E International, 2020, 116, 102321.	1.7	24
24	Experimental investigation on Iroko wood used in shipbuilding. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 128-139.	1.1	23
25	Design and optimization of Metallic Foam Shell protective device against flying ballast impact damage in railway axles. Materials and Design, 2020, 196, 109120.	3.3	22
26	Experimental and theoretical analyses of Iroko wood laminates. Composites Part B: Engineering, 2017, 112, 251-264.	5.9	21
27	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. Experimental Techniques, 2016, 40, 555-568.	0.9	17
28	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.	1.1	15
29	Computed Tomography analysis of damage in composites subjected to impact loading. Frattura Ed Integrita Strutturale, 2011, 5, 32-41.	0.5	14
30	Fatigue Assessment by Thermal Analysis During Tensile Tests on Steel. Procedia Engineering, 2015, 109, 210-218.	1.2	12
31	Experimental investigation of rhombic dodecahedron micro-lattice structures manufactured by Electron Beam Melting. Materials Today: Proceedings, 2019, 7, 578-585.	0.9	12
32	Impact behaviour and non destructive evaluation of 3D printed reinforced composites. Composite Structures, 2022, 281, 115112.	3.1	12
33	Subject-specific finite element analysis of a lumbar cage produced by electron beam melting. Medical and Biological Engineering and Computing, 2019, 57, 2771-2781.	1.6	10
34	Microstructure and mechanical properties of specimens produced using the wire-arc additive manufacturing process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1788-1798.	1.1	10
35	Aluminium honeycomb sandwich as a design alternative for lightweight marine structures. Ships and Offshore Structures, 2022, 17, 2355-2366.	0.9	10
36	Aluminum honeycomb sandwich for protective structures of earth moving machines. Procedia Structural Integrity, 2018, 8, 332-344.	0.3	9

#	ARTICLE	IF	CITATIONS
37	Nondestructive Evaluation of Aluminium Foam Panels Subjected to Impact Loading. Applied Sciences (Switzerland), 2021, 11, 1148.	1.3	8
38	Investigation of very high cycle fatigue by thermographyc method. Frattura Ed Integrita Strutturale, 2014, 8, 569-577.	0.5	7
39	Fatigue life prediction of high strength steel welded joints by Energy Approach. Procedia Structural Integrity, 2016, 2, 2156-2163.	0.3	6
40	Additively manufactured lightweight monitoring drones: Design and experimental investigation. Polymer, 2022, 241, 124557.	1.8	6
41	Influence of Weld-Porosity Defects on Fatigue Strength of AH36 Butt Joints Used in Ship Structures. Metals, 2021, 11, 444.	1.0	5
42	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
43	First lamina hybridization of high performance CFRP with Kevlar fibers: Effect on impact behavior and nondestructive evaluation. Mechanics of Advanced Materials and Structures, 2023, 30, 1207-1222.	1.5	4
44	Mechanical and morphological characterization of BCC - derived unit cells for biomedical devices. Procedia Structural Integrity, 2022, 41, 470-485.	0.3	3
45	Lightweight Aluminium Sandwich Structures for Marine Vehicles. Progress in Marine Science and Technology, 2020, , .	0.1	2
46	Internal Damage Investigation of Composites Subjected to Low-Velocity Impact. Experimental Techniques, 2014, 40, n/a-n/a.	0.9	1
47	Guest editorial for the special issue on "Lightweight Design in Transportation Engineering". Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1345-1347.	1.1	0
48	Laser Ultrasonics Inspection of Train Wheel - Evaluation of Optimized Setup. Lecture Notes in Civil Engineering, 2021, , 195-204.	0.3	0