

GiangiacoMo Minak

List of Publications by Year in descending order

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123
papers

4,327
citations

94433

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126
docs citations

126
times ranked

3095
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture mechanics of additive manufactured crack-like notches by digital image correlation. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012003.	0.6	0
2	Investigation by Digital Image Correlation of Mixed-Mode I and II Fracture Behavior of Polymeric IASCB Specimens with Additive Manufactured Crack-Like Notch. Materials, 2021, 14, 1084.	2.9	10
3	Cavity Formation during Asymmetric Water Entry of Rigid Bodies. Applied Sciences (Switzerland), 2021, 11, 2029.	2.5	4
4	In-Plane Shear Strength of Single-Lap Co-Cured Joints of Self-Reinforced Polyethylene Composites. Materials, 2021, 14, 1517.	2.9	1
5	On the structural behaviour of a CFRP safety cage in a solar powered electric vehicle. Composite Structures, 2020, 252, 112698.	5.8	33
6	Toughening Behavior of Carbon/Epoxy Laminates Interleaved by PSF/PVDF Composite Nanofibers. Applied Sciences (Switzerland), 2020, 10, 5618.	2.5	10
7	Special Issue "Composite Materials in Design Processes" Applied Sciences (Switzerland), 2020, 10, 8658.	2.5	0
8	On the modal behaviour of ultralight composite sandwich automotive panels. Composite Structures, 2020, 248, 112523.	5.8	22
9	Modeling Palletized Products: The Case of Semi-Filled Bottles under Top-Load Conditions. Applied Sciences (Switzerland), 2020, 10, 332.	2.5	2
10	Multi-Objective Design Optimization of the Reinforced Composite Roof in a Solar Vehicle. Applied Sciences (Switzerland), 2020, 10, 2665.	2.5	22
11	Investigation by Digital Image Correlation of Mixed Mode I and II Fracture Behavior of Metallic IASCB Specimens with Additive Manufactured Crack-Like Notch. Metals, 2020, 10, 400.	2.3	10
12	MEASURING DEFORMATIONS IN THE TELESCOPIC BOOM UNDER STATIC AND DYNAMIC LOAD CONDITIONS. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 315.	4.6	10
13	Effect of nanofiber diameter and arrangement on fracture toughness of out of autoclave glass/phenolic composites - Experimental and numerical study. Thin-Walled Structures, 2019, 143, 106251.	5.3	17
14	Shear mode of fracture in composite laminates toughened by polyvinylidene fluoride nanofibers. Composite Structures, 2019, 227, 111327.	5.8	14
15	Structural Design and Manufacturing of a Cruiser Class Solar Vehicle. Journal of Visualized Experiments, 2019, , .	0.3	18
16	Damage Characterization of Nano-Interleaved CFRP under Static and Fatigue Loading. Fibers, 2019, 7, 13.	4.0	9
17	Comparing various toughening mechanisms occurred in nanomodified laminates under impact loading. Composites Part B: Engineering, 2019, 174, 106964.	12.0	21
18	Predicting the Tensile Behaviour of Cast Alloys by a Pattern Recognition Analysis on Experimental Data. Metals, 2019, 9, 557.	2.3	31

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19	Fatigue life reduction of GFRP composites due to delamination associated with the introduction of functional discontinuities. <i>Composites Part B: Engineering</i> , 2019, 163, 536-547.	12.0	19
20	Explicit numerical modeling assessment of basalt reinforced composites for low-velocity impact. <i>Composites Part B: Engineering</i> , 2019, 163, 522-535.	12.0	22
21	Static strength and damage evaluation of high speed drilled composite material using acoustic emission and finite element techniques. <i>Engineering Fracture Mechanics</i> , 2019, 210, 470-485.	4.3	10
22	Ultra-High-Molecular-Weight Polyethylene Rods as an Effective Design Solution for the Suspensions of a Cruiser-Class Solar Vehicle. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-8.	2.7	5
23	Reducing defects in composite monocoque frames. <i>FME Transactions</i> , 2019, 47, 48-53.	1.4	4
24	Development of full carbon wheels for sport cars with high-volume technology. <i>Composite Structures</i> , 2018, 192, 368-378.	5.8	25
25	Low velocity impact modeling of functionally graded carbon nanotube reinforced composite (FG-CNTRC) plates with arbitrary geometry and general boundary conditions. <i>Composite Structures</i> , 2018, 187, 554-565.	5.8	20
26	On Air-Cavity Formation during Water Entry of Flexible Wedges. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 155.	2.6	5
27	Improvement of the Impact Properties of Composite Laminates by Means of Nano-Modification of the Matrix—A Review. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2406.	2.5	50
28	Mechanical Characterization of Gres Porcelain and Low-Velocity Impact Numerical Modeling. <i>Materials</i> , 2018, 11, 1082.	2.9	8
29	Experimental evaluation of static and dynamic properties of low styrene emission vinylester laminates reinforced by natural fibres. <i>Polymer Testing</i> , 2018, 69, 437-449.	4.8	17
30	Investigation on delamination and flexural properties in drilling of carbon nanotube/polymer composites. <i>Composite Structures</i> , 2018, 201, 112-120.	5.8	57
31	Experimental investigation on delamination in nanocomposite drilling. <i>FME Transactions</i> , 2018, 46, 62-69.	1.4	16
32	Damage analysis for low velocity impacted composite laminates using acoustic emission technique. <i>FME Transactions</i> , 2018, 46, 245-252.	1.4	2
33	Damage evaluation of laminated composites under low-velocity impact tests using acoustic emission method. <i>Journal of Composite Materials</i> , 2017, 51, 479-490.	2.4	24
34	Effect of PVDF nanofibers on the fracture behavior of composite laminates for high-speed woodworking machines. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 31-43.	2.1	31
35	Multiple impact response of temperature-dependent carbon nanotube-reinforced composite (CNTRC) plates with general boundary conditions. <i>Composites Part B: Engineering</i> , 2017, 113, 206-217.	12.0	35
36	Low velocity impact damage assessment of GLARE fiber-metal laminates interleaved by Nylon 6,6 nanofiber mats. <i>Composite Structures</i> , 2017, 167, 123-131.	5.8	53

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37	Experimental analysis of GFRP laminates subjected to compression after drilling. Composite Structures, 2017, 169, 144-152.	5.8	33
38	Delamination evaluation of composite laminates with different interface fiber orientations using acoustic emission features and micro visualization. Composites Part B: Engineering, 2017, 113, 185-196.	12.0	76
39	A Brief Review on Determinant Aspects in Energy Efficient Solar Car Design and Manufacturing. Smart Innovation, Systems and Technologies, 2017, , 847-856.	0.6	20
40	Study on Mode I fatigue behaviour of Nylon 6,6 nanoreinforced CFRP laminates. Composite Structures, 2017, 164, 51-57.	5.8	48
41	Managing heat phenomena in epoxy composites production via graphenic derivatives: synthesis, properties and industrial production simulation of graphene and graphene oxide containing composites. 2D Materials, 2017, 4, 015020.	4.4	12
42	Measuring Deformations in a Rigid-Hulled Inflatable Boat. Key Engineering Materials, 2017, 754, 295-298.	0.4	3
43	Correlation of acoustic emission with finite element predicted damages in open-hole tensile laminated composites. Composites Part B: Engineering, 2017, 108, 427-435.	12.0	105
44	Ballistic analysis of fiber metal laminates impacted by flat and conical impactors. Composite Structures, 2017, 161, 65-72.	5.8	31
45	Delamination analysis in composite laminates by means of Acoustic Emission and bi-linear/tri-linear Cohesive Zone Modeling. Composite Structures, 2017, 161, 505-512.	5.8	41
46	Buckling analysis of telescopic boom: theoretical and numerical verification of sliding pads. Tehnicki Vjesnik, 2017, 24, .	0.2	4
47	HARMONIC ANALYSIS AND DYNAMICAL RESPONSE OPTIMIZATION IN CERAMIC TILE FINISHING. Journal of the Serbian Society for Computational Mechanics, 2017, 11, 27-39.	0.4	1
48	Determination of stress distribution in women's shoes during high-heeled gait. FME Transactions, 2017, 45, 315-322.	1.4	0
49	Critical thrust and feed prediction models in drilling of composite laminates. Composite Structures, 2016, 148, 19-26.	5.8	64
50	Low velocity impact analysis of Fiber Metal Laminates (FMLs) in thermal environments with various boundary conditions. Composite Structures, 2016, 149, 170-183.	5.8	32
51	Feasibility study of adhesive bonding reinforcement by electrospun nanofibers. Procedia Structural Integrity, 2016, 2, 112-119.	0.8	5
52	The effect of nanofibrous membrane thickness on fracture behaviour of modified composite laminates – A numerical and experimental study. Composites Part B: Engineering, 2016, 101, 116-123.	12.0	36
53	Fracture mechanics of laser sintered cracked polyamide for a new method to induce cracks by additive manufacturing. Polymer Testing, 2016, 50, 301-308.	4.8	32
54	Prediction of quasi-static delamination onset and growth in laminated composites by acoustic emission. Composites Part B: Engineering, 2016, 85, 113-122.	12.0	69

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55	Comparison of the effect of preload and curvature of composite laminate under impact loading. FME Transactions, 2016, 44, 353-357.	1.4	11
56	Recovery of carbon fibers from cured and uncured carbon fiber reinforced composites wastes and their use as feedstock for a new composite production. Polymer Composites, 2015, 36, 1084-1095.	4.6	71
57	Improvement the impact damage resistance of composite materials by interleaving Polycaprolactone nanofibers. Engineering Solid Mechanics, 2015, 3, 21-26.	1.2	26
58	Investigation of the damage mechanisms for mode I delamination growth in foam core sandwich composites using acoustic emission. Structural Health Monitoring, 2015, 14, 265-280.	7.5	58
59	An Investigation on the Fatigue based Delamination of Woven Carbon-epoxy Composite Laminates Reinforced with Polyamide Nanofibers. Procedia Engineering, 2015, 109, 65-72.	1.2	28
60	Tensile and fatigue characterisation of textile cotton waste/polypropylene laminates. Composites Part B: Engineering, 2015, 81, 84-90.	12.0	37
61	Experimental characterization of a fiber metal laminate for underwater applications. Composite Structures, 2015, 129, 36-46.	5.8	19
62	Influence of electrospun nanofibers on the interlaminar properties of unidirectional epoxy resin/glass fiber composite laminates. Journal of Reinforced Plastics and Composites, 2015, 34, 907-914.	3.1	46
63	Analysis of damage mechanisms in drilling of composite materials by acoustic emission. Composite Structures, 2015, 131, 107-114.	5.8	67
64	The effect of PVDF nanofibers on mode-I fracture toughness of composite materials. Composites Part B: Engineering, 2015, 72, 213-216.	12.0	53
65	Experiments on the Dynamics of Flexible Cylindrical Shells Impacting on a Water Surface. Experimental Mechanics, 2015, 55, 1537-1550.	2.0	27
66	Impact and post-impact damage characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. Composites Part B: Engineering, 2015, 69, 507-515.	12.0	135
67	Pyrolysis as a way to close a CFRC life cycle: Carbon fibers recovery and their use as feedstock for a new composite production. AIP Conference Proceedings, 2014, , .	0.4	11
68	On Consideration the Mode I Fracture Response of CFRP Composite Interleaved by Composite Nanofibers. , 2014, 3, 1316-1321.		31
69	Effect of preload on the impact response of curved composite panels. Composites Part B: Engineering, 2014, 60, 74-81.	12.0	53
70	The effect of interleaved composite nanofibrous mats on delamination behavior of polymeric composite materials. Composite Structures, 2014, 109, 41-47.	5.8	118
71	Residual Stress Evaluation in Vitreous Enamelled Steel Sheets by Digital Images Analysis of Microstructures. Augmented Vision and Reality, 2014, , 171-188.	0.2	1
72	Fabrication, process simulation and testing of a thick CFRP component using the RTM process. Composites Part B: Engineering, 2014, 56, 673-680.	12.0	65

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73	The Effect of Pre-stress on Impact Response of Concave and Convex Composite Laminates. <i>Procedia Engineering</i> , 2014, 88, 109-116.	1.2	15
74	Experimental evaluation of the air trapped during the water entry of flexible structures. <i>Acta IMEKO</i> (2012), 2014, 3, 63.	0.7	1
75	Kinetics and modeling of curing behavior for two different prepregs based on the same epoxy precursor: A case study for the industrial design of thick composites. <i>Polymer Composites</i> , 2013, 34, 1506-1514.	4.6	15
76	Effect of the drilling process on the compression behavior of glass/epoxy laminates. <i>Composite Structures</i> , 2013, 98, 59-68.	5.8	50
77	Mechanical behaviour of jute cloth/wool felts hybrid laminates. <i>Materials & Design</i> , 2013, 50, 309-321.	5.1	62
78	FE analysis and production experience of a sandwich structure component manufactured by means of vacuum assisted resin infusion process. <i>Composites Part B: Engineering</i> , 2013, 53, 179-186.	12.0	24
79	Dynamic response of flexible wedges entering the water. <i>Composite Structures</i> , 2013, 99, 163-171.	5.8	56
80	Design rules for composite sandwich wakeboards. <i>Composites Part B: Engineering</i> , 2013, 44, 628-638.	12.0	11
81	Impact of sea-water on the quasi static and fatigue flexural properties of GFRP. <i>Composite Structures</i> , 2013, 97, 222-230.	5.8	36
82	Evaluating fracture behavior of brittle polymeric materials using an IASCB specimen. <i>Polymer Testing</i> , 2013, 32, 133-140.	4.8	21
83	The influence of hybridization on impact damage behavior and residual compression strength of intraply basalt/nylon hybrid composites. <i>Materials & Design</i> , 2013, 43, 283-290.	5.1	112
84	Application of rapid tooling for the production of moulds suitable for autoclave forming of CFRP. <i>Rapid Prototyping Journal</i> , 2013, 19, 327-336.	3.2	10
85	Wavelet-based acoustic emission characterization of residual strength of drilled composite materials. <i>Journal of Composite Materials</i> , 2013, 47, 2897-2908.	2.4	24
86	Impact response of glass/epoxy laminate interleaved with nanofibrous mats. <i>Engineering Solid Mechanics</i> , 2013, , 85-90.	1.2	28
87	Time-Frequency Analyzing of Acoustic Emission Signals in Drilling of Glass/Epoxy Composites. , 2012, , .		0
88	Online Monitoring of Drilling-Induced Delamination of Composite Materials by Acoustic Emission. , 2012, , .		1
89	Using Acoustic Emission to Evaluate Fracture Toughness Energy Release Rate (GI) at Mode I Delamination of Composite Materials. , 2012, , .		1
90	Investigation of a carbon fiber/epoxy prepreg curing behavior for thick composite materials production: An industrial case-study. , 2012, , .		2

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91	Hydroelasticity in water-entry problems: Comparison between experimental and SPH results. <i>Composite Structures</i> , 2012, 94, 532-539.	5.8	153
92	Influence of electrospun Nylon 6,6 nanofibrous mats on the interlaminar properties of Grâ€“epoxy composite laminates. <i>Composite Structures</i> , 2012, 94, 571-579.	5.8	112
93	Monitoring of the deformation and fracture process of dual phase steels employing acoustic emission techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 548, 183-188.	5.6	23
94	Low velocity impact and compression after impact tests on thin carbon/epoxy laminates. <i>Composites Part B: Engineering</i> , 2011, 42, 2067-2079.	12.0	164
95	An integrated approach based on acoustic emission and mechanical information to evaluate the delamination fracture toughness at mode I in composite laminate. <i>Materials & Design</i> , 2011, 32, 1444-1455.	5.1	83
96	Low-velocity impact behavior of vitreous-enameled steel plates. <i>International Journal of Impact Engineering</i> , 2010, 37, 673-684.	5.0	27
97	Numerical analysis of the effect of membrane preloads on the low-speed impact response of composite laminates. <i>Mechanics of Composite Materials</i> , 2010, 46, 299-316.	1.4	11
98	Localization of a delamination and estimation of its length in a composite laminate beam by the VSHM and pattern recognition methods. <i>Mechanics of Composite Materials</i> , 2010, 46, 387-394.	1.4	21
99	Low velocity impact properties of intra-ply hybrid composites based on basalt and nylon woven fabrics. <i>Materials & Design</i> , 2010, 31, 3835-3844.	5.1	151
100	Fatigue properties of friction stir welded particulate reinforced aluminium matrix composites. <i>International Journal of Fatigue</i> , 2010, 32, 218-226.	5.7	79
101	Residual torsional strength after impact of CFRP tubes. <i>Composites Part B: Engineering</i> , 2010, 41, 637-645.	12.0	32
102	Low-velocity impact on carbon/epoxy tubes subjected to torque â€“ Experimental results, analytical models and FEM analysis. <i>Composite Structures</i> , 2010, 92, 623-632.	5.8	52
103	A Particular Instability of Unilaterally Supported Thin Plates Under Transversal Load: Effect of the Residual Stresses Induced by Vitreous Enameling. <i>Strain</i> , 2010, 46, 419-434.	2.4	7
104	On the Notch Effect in Low Temperature Carburized Stainless Steel under Fatigue. <i>EPJ Web of Conferences</i> , 2010, 6, 02003.	0.3	2
105	On the Determination of the Fatigue Life of Laminated Graphite-Epoxy Composite by Means of Temperature Measurement. <i>Journal of Composite Materials</i> , 2010, 44, 1739-1752.	2.4	11
106	Friction Stir Welding of Aluminium Based Composites Reinforced with Al₂O₃ Particles. <i>Materials Science Forum</i> , 2010, 638-642, 87-92.	0.3	1
107	Forging of the AA6061/23vol.%Al2O3p composite: Effects on microstructure and tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 513-514, 176-184.	5.6	32
108	Modeling the superplastic behavior of Mg alloy sheets under tension using a continuum damage theory. <i>Materials & Design</i> , 2009, 30, 1674-1679.	5.1	13

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109	Fatigue residual strength of circular laminate graphite-epoxy composite plates damaged by transverse load. Composites Science and Technology, 2009, 69, 1358-1363.	7.8	39
110	Forging of the AA2618/20vol.% Al ₂ O ₃ p composite: Effects on microstructure and tensile properties. Composites Science and Technology, 2009, 69, 1783-1789.	7.8	69
111	Influence of diameter and boundary conditions on low velocity impact response of CFRP circular laminated plates. Composites Part B: Engineering, 2008, 39, 962-972.	12.0	45
112	Fatigue behaviour of low temperature carburised AISI 316L austenitic stainless steel. Surface and Coatings Technology, 2008, 202, 1778-1784.	4.8	42
113	Damage and residual strength of laminated carbon-epoxy composite circular plates loaded at the centre. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1163-1173.	7.6	57
114	Microstructure, tensile and fatigue properties of AA6061/20vol.%Al ₂ O ₃ p friction stir welded joints. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1200-1210.	7.6	106
115	Effect of friction stir welding on microstructure, tensile and fatigue properties of the AA7005/10 vol.%Al ₂ O ₃ composite. Composites Science and Technology, 2007, 67, 605-615.	7.8	227
116	Characterization of seam weld quality in AA6082 extruded profiles. Journal of Materials Processing Technology, 2007, 191, 127-131.	6.3	58
117	Tensile and fatigue properties of the AA6061/20vol% Al ₂ O ₃ p and AA7005/10vol% Al ₂ O ₃ p composites. Composites Science and Technology, 2006, 66, 333-342.	7.8	112
118	Evaluation of the performances of free-diving fins. Sports Engineering, 2004, 7, 153-158.	1.1	6
119	Probabilistic First-Ply Failure Analysis of a Symmetric-Equilibratè Laminatè in Composite Material. Key Engineering Materials, 2001, 221-222, 233-244.	0.4	0
120	Numerical methods for the solution of the electrodynamic in magnetohydrodynamic flows. IEEE Transactions on Magnetics, 1996, 32, 1010-1013.	2.1	10
121	A New Method for Reliability Centered Maintenance Improvement. , 0, , .		0
122	On the Tensile and Compressive Fatigue Behaviour of Notched CFRP Laminates. Key Engineering Materials, 0, 385-387, 241-244.	0.4	0
123	THE EFFECT OF SUPPORT PLATE ON DRILLING-INDUCED DELAMINATION. Acta Polytechnica CTU Proceedings, 0, 3, 19-24.	0.3	5