Giangiacomo Minak

List of Publications by Year
in descending order

123	4,327	94433	128289
papers	citations	37 h-index	60 g-index

126	126	126	3095
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of friction stir welding on microstructure, tensile and fatigue properties of the AA7005/10 vol.%Al2O3 composite. Composites Science and Technology, 2007, 67, 605-615.	7.8	227
2	Low velocity impact and compression after impact tests on thin carbon/epoxy laminates. Composites Part B: Engineering, 2011, 42, 2067-2079.	12.0	164
3	Hydroelasticity in water-entry problems: Comparison between experimental and SPH results. Composite Structures, 2012, 94, 532-539.	5.8	153
4	Low velocity impact properties of intra-ply hybrid composites based on basalt and nylon woven fabrics. Materials & Design, 2010, 31, 3835-3844.	5.1	151
5	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
6	The effect of interleaved composite nanofibrous mats on delamination behavior of polymeric composite materials. Composite Structures, 2014, 109, 41-47.	5.8	118
7	Tensile and fatigue properties of the AA6061/20vol% Al2O3p and AA7005/10vol% Al2O3p composites. Composites Science and Technology, 2006, 66, 333-342.	7.8	112
8	Influence of electrospun Nylon 6,6 nanofibrous mats on the interlaminar properties of Grâ€“epoxy composite laminates. Composite Structures, 2012, 94, 571-579.	5.8	112
9	The influence of hybridization on impact damage behavior and residual compression strength of intraply basalt/nylon hybrid composites. Materials & Design, 2013, 43, 283-290.	5.1	112
10	Microstructure, tensile and fatigue properties of AA6061/20vol.%Al2O3p friction stir welded joints. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1200-1210.	7.6	106
11	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
12	An integrated approach based on acoustic emission and mechanical information to evaluate the delamination fracture toughness at mode I in composite laminate. Materials & Design, 2011, 32, 1444-1455.	5.1	83
13	Fatigue properties of friction stir welded particulate reinforced aluminium matrix composites. International Journal of Fatigue, 2010, 32, 218-226.	5.7	79
14	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
15	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
16	Forging of the AA2618/20vol.% Al2O3p composite: Effects on microstructure and tensile properties. Composites Science and Technology, 2009, 69, 1783-1789.	7.8	69
17	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
18	Analysis of damage mechanisms in drilling of composite materials by acoustic emission. Composite Structures, 2015, 131, 107-114.	5.8	67

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19	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
20	Critical thrust and feed prediction models in drilling of composite laminates. Composite Structures, 2016, 148, 19-26.	5.8	64
21	Mechanical behaviour of jute cloth/wool felts hybrid laminates. Materials & Design, 2013, 50, 309-321.	5.1	62
22	Characterization of seam weld quality in AA6082 extruded profiles. Journal of Materials Processing Technology, 2007, 191, 127-131.	6.3	58
23	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
24	Damage and residual strength of laminated carbonâ€“epoxy composite circular plates loaded at the centre. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1163-1173.	7.6	57
25	Investigation on delamination and flexural properties in drilling of carbon nanotube/polymer composites. Composite Structures, 2018, 201, 112-120.	5.8	57
26	Dynamic response of flexible wedges entering the water. Composite Structures, 2013, 99, 163-171.	5.8	56
27	Effect of preload on the impact response of curved composite panels. Composites Part B: Engineering, 2014, 60, 74-81.	12.0	53
28	The effect of PVDF nanofibers on mode-I fracture toughness of composite materials. Composites Part B: Engineering, 2015, 72, 213-216.	12.0	53
29	Low velocity impact damage assessment of GLARE fiber-metal laminates interleaved by Nylon 6,6 nanofiber mats. Composite Structures, 2017, 167, 123-131.	5.8	53
30	Low-velocity impact on carbon/epoxy tubes subjected to torque â€“ Experimental results, analytical models and FEM analysis. Composite Structures, 2010, 92, 623-632.	5.8	52
31	Effect of the drilling process on the compression behavior of glass/epoxy laminates. Composite Structures, 2013, 98, 59-68.	5.8	50
32	Improvement of the Impact Properties of Composite Laminates by Means of Nano-Modification of the Matrixâ€”A Review. Applied Sciences (Switzerland), 2018, 8, 2406.	2.5	50
33	Study on Mode I fatigue behaviour of Nylon 6,6 nanoreinforced CFRP laminates. Composite Structures, 2017, 164, 51-57.	5.8	48
34	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
35	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
36	Fatigue behaviour of low temperature carburised AISI 316L austenitic stainless steel. Surface and Coatings Technology, 2008, 202, 1778-1784.	4.8	42

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37	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
38	Fatigue residual strength of circular laminate graphiteâ€“epoxy composite plates damaged by transverse load. Composites Science and Technology, 2009, 69, 1358-1363.	7.8	39
39	Tensile and fatigue characterisation of textile cotton waste/polypropylene laminates. Composites Part B: Engineering, 2015, 81, 84-90.	12.0	37
40	Impact of sea-water on the quasi static and fatigue flexural properties of GFRP. Composite Structures, 2013, 97, 222-230.	5.8	36
41	The effect of nanofibrous membrane thickness on fracture behaviour of modified composite laminates â€“ A numerical and experimental study. Composites Part B: Engineering, 2016, 101, 116-123.	12.0	36
42	Multiple impact response of temperature-dependent carbon nanotube-reinforced composite (CNTRC) plates with general boundary conditions. Composites Part B: Engineering, 2017, 113, 206-217.	12.0	35
43	Experimental analysis of GFRP laminates subjected to compression after drilling. Composite Structures, 2017, 169, 144-152.	5.8	33
44	On the structural behaviour of a CFRP safety cage in a solar powered electric vehicle. Composite Structures, 2020, 252, 112698.	5.8	33
45	Forging of the AA6061/23vol.%Al2O3p composite: Effects on microstructure and tensile properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 176-184.	5.6	32
46	Residual torsional strength after impact of CFRP tubes. Composites Part B: Engineering, 2010, 41, 637-645.	12.0	32
47	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
48	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
49	On Consideration the Mode I Fracture Response of CFRP Composite Interleaved by Composite Nanofibers. , 2014, 3, 1316-1321.		31
50	Effect of PVDF nanofibers on the fracture behavior of composite laminates for high-speed woodworking machines. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 31-43.	2.1	31
51	Ballistic analysis of fiber metal laminates impacted by flat and conical impactors. Composite Structures, 2017, 161, 65-72.	5.8	31
52	Predicting the Tensile Behaviour of Cast Alloys by a Pattern Recognition Analysis on Experimental Data. Metals, 2019, 9, 557.	2.3	31
53	Impact response of glass/epoxy laminate interleaved with nanofibrous mats. Engineering Solid Mechanics, 2013, , 85-90.	1.2	28
54	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

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55	Low-velocity impact behavior of vitreous-enameled steel plates. International Journal of Impact Engineering, 2010, 37, 673-684.	5.0	27
56	Experiments on the Dynamics of Flexible Cylindrical Shells Impacting on a Water Surface. Experimental Mechanics, 2015, 55, 1537-1550.	2.0	27
57	Improvement the impact damage resistance of composite materials by interleaving Polycaprolactone nanofibers. Engineering Solid Mechanics, 2015, 3, 21-26.	1.2	26
58	Development of full carbon wheels for sport cars with high-volume technology. Composite Structures, 2018, 192, 368-378.	5.8	25
59	FE analysis and production experience of a sandwich structure component manufactured by means of vacuum assisted resin infusion process. Composites Part B: Engineering, 2013, 53, 179-186.	12.0	24
60	Wavelet-based acoustic emission characterization of residual strength of drilled composite materials. Journal of Composite Materials, 2013, 47, 2897-2908.	2.4	24
61	Damage evaluation of laminated composites under low-velocity impact tests using acoustic emission method. Journal of Composite Materials, 2017, 51, 479-490.	2.4	24
62	Monitoring of the deformation and fracture process of dual phase steels employing acoustic emission techniques. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 548, 183-188.	5.6	23
63	Explicit numerical modeling assessment of basalt reinforced composites for low-velocity impact. Composites Part B: Engineering, 2019, 163, 522-535.	12.0	22
64	On the modal behaviour of ultralight composite sandwich automotive panels. Composite Structures, 2020, 248, 112523.	5.8	22
65	Multi-Objective Design Optimization of the Reinforced Composite Roof in a Solar Vehicle. Applied Sciences (Switzerland), 2020, 10, 2665.	2.5	22
66	Localization of a delamination and estimation of its length in a composite laminate beam by the VSHM and pattern recognition methods. Mechanics of Composite Materials, 2010, 46, 387-394.	1.4	21
67	Evaluating fracture behavior of brittle polymeric materials using an IASCB specimen. Polymer Testing, 2013, 32, 133-140.	4.8	21
68	Comparing various toughening mechanisms occurred in nanomodified laminates under impact loading. Composites Part B: Engineering, 2019, 174, 106964.	12.0	21
69	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
70	Low velocity impact modeling of functionally graded carbon nanotube reinforced composite (FG-CNTRC) plates with arbitrary geometry and general boundary conditions. Composite Structures, 2018, 187, 554-565.	5.8	20
71	Experimental characterization of a fiber metal laminate for underwater applications. Composite Structures, 2015, 129, 36-46.	5.8	19
72	Fatigue life reduction of GFRP composites due to delamination associated with the introduction of functional discontinuities. Composites Part B: Engineering, 2019, 163, 536-547.	12.0	19

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73	Structural Design and Manufacturing of a Cruiser Class Solar Vehicle. Journal of Visualized Experiments, 2019, , .	0.3	18
74	Experimental evaluation of static and dynamic properties of low styrene emission vinylester laminates reinforced by natural fibres. Polymer Testing, 2018, 69, 437-449.	4.8	17
75	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
76	Experimental investigation on delamination in nanocomposite drilling. FME Transactions, 2018, 46, 62-69.	1.4	16
77	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. Polymer Composites, 2013, 34, 1506-1514.	4.6	15
78	The Effect of Pre-stress on Impact Response of Concave and Convex Composite Laminates. Procedia Engineering, 2014, 88, 109-116.	1.2	15
79	Shear mode of fracture in composite laminates toughened by polyvinylidene fluoride nanofibers. Composite Structures, 2019, 227, 111327.	5.8	14
80	Modeling the superplastic behavior of Mg alloy sheets under tension using a continuum damage theory. Materials & Design, 2009, 30, 1674-1679.	5.1	13
81	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
82	Numerical analysis of the effect of membrane preloads on the low-speed impact response of composite laminates. Mechanics of Composite Materials, 2010, 46, 299-316.	1.4	11
83	On the Determination of the Fatigue Life of Laminated Graphite-Epoxy Composite by Means of Temperature Measurement. Journal of Composite Materials, 2010, 44, 1739-1752.	2.4	11
84	Design rules for composite sandwich wakeboards. Composites Part B: Engineering, 2013, 44, 628-638.	12.0	11
85	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
86	Comparison of the effect of preload and curvature of composite laminate under impact loading. FME Transactions, 2016, 44, 353-357.	1.4	11
87	Numerical methods for the solution of the electrodynamics in magnetohydrodynamic flows. IEEE Transactions on Magnetics, 1996, 32, 1010-1013.	2.1	10
88	Application of rapid tooling for the production of moulds suitable for autoclave forming of CFRP. Rapid Prototyping Journal, 2013, 19, 327-336.	3.2	10
89	Static strength and damage evaluation of high speed drilled composite material using acoustic emission and finite element techniques. Engineering Fracture Mechanics, 2019, 210, 470-485.	4.3	10
90	Toughening Behavior of Carbon/Epoxy Laminates Interleaved by PSF/PVDF Composite Nanofibers. Applied Sciences (Switzerland), 2020, 10, 5618.	2.5	10

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91	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
92	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
93	MEASURING DEFORMATIONS IN THE TELESCOPIC BOOM UNDER STATIC AND DYNAMIC LOAD CONDITIONS. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 315.	4.6	10
94	Damage Characterization of Nano-Interleaved CFRP under Static and Fatigue Loading. Fibers, 2019, 7, 13.	4.0	9
95	Mechanical Characterization of Gres Porcelain and Low-Velocity Impact Numerical Modeling. Materials, 2018, 11, 1082.	2.9	8
96	A Particular Instability of Unilaterally Supported Thin Plates Under Transversal Load: Effect of the Residual Stresses Induced by Vitreous Enameling. Strain, 2010, 46, 419-434.	2.4	7
97	Evaluation of the performances of free-diving fins. Sports Engineering, 2004, 7, 153-158.	1.1	6
98	THE EFFECT OF SUPPORT PLATE ON DRILLING-INDUCED DELAMINATION. Acta Polytechnica CTU Proceedings, 0, 3, 19-24.	0.3	5
99	Feasibility study of adhesive bonding reinforcement by electrospun nanofibers. Procedia Structural Integrity, 2016, 2, 112-119.	0.8	5
100	On Air-Cavity Formation during Water Entry of Flexible Wedges. Journal of Marine Science and Engineering, 2018, 6, 155.	2.6	5
101	Ultra-High-Molecular-Weight Polyethylene Rods as an Effective Design Solution for the Suspensions of a Cruiser-Class Solar Vehicle. International Journal of Polymer Science, 2019, 2019, 1-8.	2.7	5
102	Buckling analysis of telescopic boom: theoretical and numerical verification of sliding pads. Tehnicki Vjesnik, 2017, 24, .	0.2	4
103	Cavity Formation during Asymmetric Water Entry of Rigid Bodies. Applied Sciences (Switzerland), 2021, 11, 2029.	2.5	4
104	Reducing defects in composite monocoque frames. FME Transactions, 2019, 47, 48-53.	1.4	4
105	Measuring Deformations in a Rigid-Hulled Inflatable Boat. Key Engineering Materials, 2017, 754, 295-298.	0.4	3
106	On the Notch Effect in Low Temperature Carburized Stainless Steel under Fatigue. EPJ Web of Conferences, 2010, 6, 02003.	0.3	2
107	Investigation of a carbon fiber/epoxy prepreg curing behavior for thick composite materials production: An industrial case-study. , 2012, , .		2
108	Modeling Palletized Products: The Case of Semi-Filled Bottles under Top-Load Conditions. Applied Sciences (Switzerland), 2020, 10, 332.	2.5	2

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109	Damage analysis for low velocity impacted composite laminates using acoustic emission technique. FME Transactions, 2018, 46, 245-252.	1.4	2
110	Friction Stir Welding of Aluminium Based Composites Reinforced with Al₂O₃ Particles. Materials Science Forum, 2010, 638-642, 87-92.	0.3	1
111	Online Monitoring of Drilling-Induced Delamination of Composite Materials by Acoustic Emission. , 2012, , .		1
112	Using Acoustic Emission to Evaluate Fracture Toughness Energy Release Rate (GI) at Mode I Delamination of Composite Materials. , 2012, , .		1
113	Residual Stress Evaluation in Vitreous Enameled Steel Sheets by Digital Images Analysis of Microstructures. Augmented Vision and Reality, 2014, , 171-188.	0.2	1
114	In-Plane Shear Strength of Single-Lap Co-Cured Joints of Self-Reinforced Polyethylene Composites. Materials, 2021, 14, 1517.	2.9	1
115	Experimental evaluation of the air trapped during the water entry of flexible structures. Acta IMEKO (2012), 2014, 3, 63.	0.7	1
116	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
117	A New Method for Reliability Centered Maintenance Improvement. , 0, , .		0
118	Probabilistic First-Ply Failure Analysis of a Symmetric-Equilibrate Laminate in Composite Material. Key Engineering Materials, 2001, 221-222, 233-244.	0.4	0
119	On the Tensile and Compressive Fatigue Behaviour of Notched CFRP Laminates. Key Engineering Materials, 0, 385-387, 241-244.	0.4	0
120	Time-Frequency Analyzing of Acoustic Emission Signals in Drilling of Glass/Epoxy Composites. , 2012, , .		0
121	Special Issue â€œComposite Materials in Design Processesâ€• Applied Sciences (Switzerland), 2020, 10, 8658.	2.5	0
122	Determination of stress distribution in women's shoes during high-heeled gait. FME Transactions, 2017, 45, 315-322.	1.4	0
123	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