

Fabrizio Quadrini

List of Publications by Year in descending order

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102
papers

923
citations

623734

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580821

25
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107
all docs

107
docs citations

107
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Memory Composites for Self-deployable Structures in Aerospace Applications. <i>Procedia Engineering</i> , 2014, 88, 42-47.	1.2	96
2	Behavior of Shape Memory Epoxy Foams in Microgravity: Experimental Results of STS-134 Mission. <i>Microgravity Science and Technology</i> , 2012, 24, 287-296.	1.4	52
3	Solid-State Foaming of Epoxy Resin. <i>Journal of Cellular Plastics</i> , 2008, 44, 161-173.	2.4	45
4	Solid-state Foaming of Nano-Clay-Filled Thermoset Foams with Shape Memory Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 560-567.	1.9	42
5	Laser Bending of Aluminum Foam Sandwich Panels. <i>Advanced Engineering Materials</i> , 2009, 11, 902-906.	3.5	39
6	Mission BION-M1: Results of RIBES/FOAM2 experiment on shape memory polymer foams and composites. <i>Aerospace Science and Technology</i> , 2015, 40, 109-114.	4.8	35
7	Recycling of thermoset polyurethane foams. <i>Polymer Engineering and Science</i> , 2013, 53, 1357-1363.	3.1	32
8	Laser forming of open-cell aluminium foams. <i>Journal of Materials Processing Technology</i> , 2010, 210, 1517-1522.	6.3	31
9	Production of rubber parts by tyre recycling without using virgin materials. <i>Plastics, Rubber and Composites</i> , 2012, 41, 40-46.	2.0	27
10	Replication casting of open-cell AlSi7Mg0.3 foams. <i>Materials Letters</i> , 2011, 65, 2558-2561.	2.6	23
11	XPS, SEM, DSC and Nanoindentation Characterization of Silver Nanoparticle-Coated Biopolymer Pellets. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7706.	2.5	23
12	Shape Memory Foams of Microbial Polyester for Biomedical Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 599-602.	1.9	21
13	Mission STS-134: Results of Shape Memory Foam Experiment. <i>Acta Astronautica</i> , 2013, 91, 333-340.	3.2	19
14	Forming of Shape Memory Composite Structures. <i>Key Engineering Materials</i> , 0, 554-557, 1930-1937.	0.4	17
15	Shape Memory Behavior of PET Foams. <i>Polymers</i> , 2018, 10, 115.	4.5	17
16	Indentation of functionally graded polyester composites. <i>Measurement: Journal of the International Measurement Confederation</i> , 2009, 42, 894-902.	5.0	15
17	Production of rubber pads by tyre recycling. <i>International Journal of Materials Engineering Innovation</i> , 2009, 1, 91.	0.5	14
18	Shape memory composite antennas for space applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 161, 012066.	0.6	14

#	ARTICLE	IF	CITATIONS
19	Dynamic Mechanical Performances of Polyester-Clay Nanocomposite Thick Films. <i>Journal of Composite Materials</i> , 2008, 42, 2841-2852.	2.4	13
20	Shape memory composite structures for self-deployable solar sails. <i>Astrodynamics</i> , 2019, 3, 247-255.	2.4	13
21	A sustainable molding process for new rubber products from tire recycling. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2019, 35, 41-55.	1.8	13
22	EFFECT OF COATING ROUGHNESS ON PERFORMANCE OF SMALL CVD DIAMOND COATED TOOLS. <i>Machining Science and Technology</i> , 2008, 12, 390-404.	2.5	12
23	Indentation creep of polymers. I. Experimental. <i>Polymer Engineering and Science</i> , 2010, 50, 2431-2439.	3.1	12
24	Powder size measurement by acoustic emission. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 290-297.	5.0	12
25	Recycling of Waste Epoxy-Polyester Powders for Foam Production. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2011, 1, 10-20.	0.4	11
26	Compression Moulding of Rubber Powder from Exhausted Tyres. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 340-344.	1.9	11
27	Direct Moulding of Rubber Granules and Powders from Tyre Recycling. <i>Applied Mechanics and Materials</i> , 0, 371, 315-319.	0.2	11
28	Auxetic epoxy foams produced by solid state foaming. <i>Journal of Cellular Plastics</i> , 2016, 52, 441-454.	2.4	11
29	Shape memory polymer composite unit with embedded heater. <i>Smart Materials and Structures</i> , 2021, 30, 075009.	3.5	11
30	Formability of Open-Cell Aluminum Foams by Laser. , 2010, , .		10
31	Polymer Matrix Composites with Shape Memory Properties. <i>Materials Science Forum</i> , 0, 783-786, 2509-2516.	0.3	10
32	Shape Memory Composite Sandwich Structures with Self-Healing Properties. <i>Polymers</i> , 2021, 13, 3056.	4.5	10
33	Microstructural Modification of Laser-Bent Open-Cell Aluminum Foams. <i>Key Engineering Materials</i> , 2012, 504-506, 1213-1218.	0.4	9
34	Compression Moulding of Thermoplastic Nanocomposites Filled with MWCNT. <i>Polymers and Polymer Composites</i> , 2017, 25, 611-620.	1.9	9
35	Anisogrid thermoplastic composite lattice structure by innovative out-of-autoclave process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 1941-1952.	3.0	9
36	Macroindentation of polymers. <i>Polymer Engineering and Science</i> , 2008, 48, 1279-1288.	3.1	8

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37	Selective Laser Sintering of Resin-Coated Sands Part I: The Laser-Material Interaction. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	2.2	8
38	Numerical Simulation of Laser Bending of Aluminum Foams. Key Engineering Materials, 0, 554-557, 1864-1871.	0.4	8
39	Shape memory polymer composites by molding aeronautical prepregs with shape memory polymer interlayers. Materials Research Express, 2019, 6, 115711.	1.6	8
40	Plastic shaping by means of IR heating and direct pellet molding. Polymer Engineering and Science, 2006, 46, 896-903.	3.1	7
41	Shape Memory Polymer Composite Actuator: Modeling Approach for Preliminary Design and Validation. Actuators, 2019, 8, 51.	2.3	7
42	Diode laser forming of stainless steel tubes. International Journal of Material Forming, 2008, 1, 1343-1346.	2.0	6
43	Infrared assisted polymer forming. International Journal of Material Forming, 2008, 1, 1355-1358.	2.0	6
44	Density Measurement of Powder Metallurgy Compacts by Means of Small Indentation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	6
45	Extracting local mechanical properties of steel bars by means of instrumented flat indentation. Measurement: Journal of the International Measurement Confederation, 2011, 44, 129-138.	5.0	6
46	Non-destructive evaluation of local mechanical properties of Al die cast large components by means of FIMEC indentation test. Measurement: Journal of the International Measurement Confederation, 2007, 40, 892-897.	5.0	5
47	Mold replication in injection molding of high density polyethylene. Polymer Engineering and Science, 2020, 60, 2459-2469.	3.1	5
48	Frozen Stresses in Shape Memory Polymer Composites. Materiale Plastice, 2018, 55, 494-497.	0.8	5
49	Testing the Dispersion of Nanoparticles in a Nanocomposite with an Ultra-Low Fill Content Using a Novel Non-Destructive Evaluation Technique. Materials, 2022, 15, 1208.	2.9	5
50	Aesthetic Diode Laser Welding of Stainless Steel. Key Engineering Materials, 2007, 344, 707-713.	0.4	4
51	Instrumented flat indentation on polyester nanocomposite coatings. International Journal of Surface Science and Engineering, 2008, 2, 409.	0.4	4
52	Numerical Prediction of Residual Stresses in Laser Bending of Stainless Steel Sheet Metals. Key Engineering Materials, 2009, 410-411, 629-640.	0.4	4
53	Diode laser bending of tongues from slotted steel tubes. International Journal of Material Forming, 2009, 2, 107-111.	2.0	4
54	Diode Laser Assisted Filament Winding of Thermoplastic Matrix Composites. Materials, 2010, 3, 563-571.	2.9	4

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55	Manufacturing of a Shape Memory Polymer Actuator. , 2015, , .		4
56	Molding articles made of 100% recycled fiberglass. Journal of Composite Materials, 2016, 50, 2959-2969.	2.4	4
57	New Technological Solutions for Recycling Spent Tire Rubber. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2012, 2, 1-10.	0.4	3
58	Numerical Simulation of Laser Forming of Aluminum Sponges: Effect of Temperature and Heat Treatments. Key Engineering Materials, 2014, 611-612, 731-738.	0.4	3
59	Shape Memory Composite Hands for Space Applications. , 2015, , .		3
60	Multilayered Composite Plates with Shape Memory Properties. Key Engineering Materials, 2016, 699, 1-7.	0.4	3
61	Shape memory polymeric composites sensing by optic fibre Bragg gratings: A very first approach. AIP Conference Proceedings, 2016, , .	0.4	3
62	Shape Memory Materials from Epoxy Matrix Composites. Springer Series on Polymer and Composite Materials, 2017, , 303-320.	0.7	3
63	Solidâ€state foaming of epoxy resin under hypergravity and simulated microgravity. Advances in Polymer Technology, 2018, 37, 2616-2624.	1.7	3
64	Durability of Shape Memory Polymer Composite Laminates under Thermo-Mechanical Cycling. Journal of Composites Science, 2022, 6, 91.	3.0	3
65	Microscopic testing of carbon fiber laminates with shape memory epoxy interlayer. Materials Today Communications, 2022, 32, 103854.	1.9	3
66	Diode Laser Cure of Serigraphic Ink. Polymer-Plastics Technology and Engineering, 2007, 46, 1049-1053.	1.9	2
67	Single thermoplastic pellet molding by means of diode laser for micromolding application. Polymer Engineering and Science, 2007, 47, 168-173.	3.1	2
68	Production of Tribological Composites by Recycling Dust of Friction Products. Journal of Reinforced Plastics and Composites, 2008, 27, 1975-1982.	3.1	2
69	Double indentation of laser bended stainless steel sheets. International Journal of Material Forming, 2009, 2, 665-668.	2.0	2
70	New capabilities in the numerical simulation of aluminium alloy casting processes. International Journal of Computational Materials Science and Surface Engineering, 2010, 3, 224.	0.2	2
71	Numerical Simulation of Open-Cell Aluminum Foams under Compression. Key Engineering Materials, 2012, 504-506, 1219-1224.	0.4	2
72	Indentation Recovery of Shape Memory Foams Produced by Solid State Foaming. Key Engineering Materials, 2014, 611-612, 656-663.	0.4	2

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73	Shape recovery of PET foams after cold compression. AIP Conference Proceedings, 2016, , .	0.4	2
74	Local density measurement of additive manufactured copper parts by instrumented indentation. AIP Conference Proceedings, 2018, , .	0.4	2
75	Laser Assisted Polymer Forming. , 2004, , .		2
76	A numerical-experimental approach for the simulation of tube bending processes. International Journal of Computational Materials Science and Surface Engineering, 2010, 3, 188.	0.2	1
77	Custom Painting by Means of Powder Coating and Localized Heating. Polymer-Plastics Technology and Engineering, 2010, 49, 164-168.	1.9	1
78	The Role of Mixing Time in the Production of Nanocomposite Thermosetting Coatings. Polymer-Plastics Technology and Engineering, 2013, 52, 1200-1212.	1.9	1
79	Sintering of Powders From Fiberglass Recycling. , 2014, , .		1
80	Self-Repairing Behavior of Shape Memory Composites. Applied Mechanics and Materials, 0, 809-810, 543-547.	0.2	1
81	CNT and Graphene Filled Shape Memory Foams by Solid State Foaming. Key Engineering Materials, 2015, 651-653, 719-725.	0.4	1
82	Shape Recovery of Polymeric Matrix Composites by Irradiation. Materials Science Forum, 2016, 879, 1645-1650.	0.3	1
83	Thermosetting polyester foams by infiltration in soluble preforms. Journal of Cellular Plastics, 2018, 54, 707-718.	2.4	1
84	Organic Shape-Memory Polymers and their Foams and Composites in Space. , 2022, , 287-310.		1
85	Fatigue strength of hard-chromium-plated handlebars. International Journal of Surface Science and Engineering, 2008, 2, 376.	0.4	0
86	Modelling manufacturing errors in machining of thermoplastics. International Journal of Computer Applications in Technology, 2008, 33, 72.	0.5	0
87	Aluminum Alloy Tube Welding by Means of High Power Diode Laser. Key Engineering Materials, 2009, 410-411, 97-104.	0.4	0
88	Thermal analysis of diode laser processing of aluminium alloy tubes. International Journal of Materials Engineering Innovation, 2010, 1, 297.	0.5	0
89	Filling simulation and mechanical property prediction in the injection moulding of discrete long glass fibre reinforced plastics (LGFRP). International Journal of Computational Materials Science and Surface Engineering, 2010, 3, 133.	0.2	0
90	An IR molding system for direct shaping of thermoplastics. Polymer Engineering and Science, 2010, 50, 2079-2084.	3.1	0

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91	Diode laser welding of aluminum to steel. , 2011, , .		0
92	Rubber-Toughened Long Glass Fiber Reinforced Thermoplastic Composite. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2012, 2, 47-58.	0.4	0
93	Mold Production by Selective Laser Sintering of Resin Coated Sands. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2013, 1, 1-13.	0.4	0
94	Epoxy-Matrix MMT-Filled Nanocomposite Coatings onto Aluminum Substrates. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2014, 2, 1-14.	0.4	0
95	Increasing Performances of En AB-46000 by Squeeze Casting. Key Engineering Materials, 2014, 611-612, 629-636.	0.4	0
96	Direct Molding of Polymers for Biomedical Applications. Key Engineering Materials, 2014, 611-612, 685-692.	0.4	0
97	Direct molding of pavement tiles made of ground tire rubber. AIP Conference Proceedings, 2016, , .	0.4	0
98	Surface Tailoring of Aluminum Sheets by PVD Sputtering. Procedia Engineering, 2017, 183, 375-380.	1.2	0
99	Conceptual Design of an Experiment for the International Space Station About Shape Memory Composite in Space Environment. , 2017, , .		0
100	Hybrid nanocomposites with ultra-low filling content by nano-coating fragmentation. Polymer-Plastics Technology and Materials, 0, , 1-15.	1.3	0
101	Molding industrial products from tire ground rubber. , 2021, , 251-272.		0
102	Recycling of Waste Epoxy-Polyester Powders for Foam Production. , 0, , 91-101.		0