

Francesca Lionetto

List of Publications by Year in descending order

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68
papers

1,904
citations

218592

26
h-index

265120

42
g-index

68
all docs

68
docs citations

68
times ranked

1785
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring Wood Degradation during Weathering by Cellulose Crystallinity. <i>Materials</i> , 2012, 5, 1910-1922.	1.3	212
2	Monitoring the Cure State of Thermosetting Resins by Ultrasound. <i>Materials</i> , 2013, 6, 3783-3804.	1.3	112
3	Hybrid ultrasonic spot welding of aluminum to carbon fiber reinforced epoxy composites. <i>Journal of Materials Processing Technology</i> , 2017, 247, 289-295.	3.1	98
4	Ultrasonic spot welding of carbon fiber reinforced epoxy composites to aluminum: mechanical and electrochemical characterization. <i>Composites Part B: Engineering</i> , 2018, 144, 134-142.	5.9	94
5	Polymer characterization by ultrasonic wave propagation. <i>Advances in Polymer Technology</i> , 2008, 27, 63-73.	0.8	73
6	Ultrasonic monitoring of the network formation in superabsorbent cellulose based hydrogels. <i>Polymer</i> , 2005, 46, 1796-1803.	1.8	65
7	Hybrid welding of carbon-fiber reinforced epoxy based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 104, 32-40.	3.8	64
8	Finite element modeling of continuous induction welding of thermoplastic matrix composites. <i>Materials and Design</i> , 2017, 120, 212-221.	3.3	55
9	Recent Applications of Biopolymers Derived from Fish Industry Waste in Food Packaging. <i>Polymers</i> , 2021, 13, 2337.	2.0	53
10	Modeling of continuous ultrasonic impregnation and consolidation of thermoplastic matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 82, 119-129.	3.8	48
11	Reversible techniques for FRP-confinement of masonry columns. <i>Construction and Building Materials</i> , 2019, 225, 415-428.	3.2	46
12	Ultrasonic Dynamic Mechanical Analysis of Polymers. <i>Applied Rheology</i> , 2005, 15, 326-335.	3.5	45
13	The Retrogradation of Concentrated Wheat Starch Systems. <i>Starch/Staerke</i> , 2005, 57, 16-24.	1.1	44
14	Gelation of waxy crude oils by ultrasonic and dynamic mechanical analysis. <i>Rheologica Acta</i> , 2007, 46, 601-609.	1.1	43
15	An Overview of Progress and Current Challenges in Ultrasonic Treatment of Polymer Melts. <i>Advances in Polymer Technology</i> , 2013, 32, .	0.8	39
16	An Overview of the Sorption Studies of Contaminants on Poly(Ethylene Terephthalate) Microplastics in the Marine Environment. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 445.	1.2	39
17	Evolution of transient states and properties of an epoxy-silica hybrid cured at ambient temperature. <i>European Polymer Journal</i> , 2013, 49, 1298-1313.	2.6	38
18	Nanofilled polyols for viscoelastic polyurethane foams. <i>Polymer International</i> , 2010, 59, 486-491.	1.6	35

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19	Relaxations during the postcure of unsaturated polyester networks by ultrasonic wave propagation, dynamic mechanical analysis, and dielectric analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 596-602.	2.4	33
20	Phase transformations during the cure of unsaturated polyester resins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 370, 284-287.	2.6	32
21	A methodology to orient carbon nanotubes in a thermosetting matrix. <i>Composites Science and Technology</i> , 2014, 96, 47-55.	3.8	32
22	Lay-Up and Consolidation of a Composite Pipe by In Situ Ultrasonic Welding of a Thermoplastic Matrix Composite Tape. <i>Materials</i> , 2018, 11, 786.	1.3	31
23	Effect of binder powders added to carbon fiber reinforcements on the chemoreology of an epoxy resin for composites. <i>Composites Part B: Engineering</i> , 2017, 112, 243-250.	5.9	30
24	Evaluation of the degree of cross-linking of cellulose-based superabsorbent hydrogels: a comparison between different techniques. <i>Macromolecular Symposia</i> , 2003, 200, 199-208.	0.4	28
25	Ultrasonic investigation of wheat starch retrogradation. <i>Journal of Food Engineering</i> , 2006, 75, 258-266.	2.7	28
26	Mechanical and natural durability properties of wood treated with a novel organic preservative/consolidant product. <i>Materials & Design</i> , 2009, 30, 3303-3307.	5.1	28
27	Experimental and Numerical Study of Vacuum Resin Infusion of Stiffened Carbon Fiber Reinforced Panels. <i>Materials</i> , 2020, 13, 4800.	1.3	27
28	Air-Coupled Ultrasound: A Novel Technique for Monitoring the Curing of Thermosetting Matrices. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1437-1444.	1.7	26
29	Effect of novel consolidants on mechanical and absorption properties of deteriorated wood by insect attack. <i>Journal of Cultural Heritage</i> , 2012, 13, 195-203.	1.5	26
30	Processing and characterization of amorphous polyethylene terephthalate fibers for the alignment of carbon nanofillers in thermosetting resins. <i>Polymer Composites</i> , 2015, 36, 1096-1103.	2.3	26
31	Effects of Blank Quality on Press-Formed PEKK/Carbon Composite Parts. <i>Materials</i> , 2018, 11, 1063.	1.3	26
32	Curing kinetics of epoxy-deep eutectic solvent mixtures. <i>Thermochimica Acta</i> , 2015, 612, 70-78.	1.2	25
33	Cold-Cured Epoxy-Based Organic-Inorganic Hybrid Resins Containing Deep Eutectic Solvents. <i>Polymers</i> , 2019, 11, 14.	2.0	24
34	Correlation between elastic properties and morphology in short fiber composites by X-ray computed micro-tomography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106169.	3.8	22
35	Production and Characterization of Polyethylene Terephthalate Nanoparticles. <i>Polymers</i> , 2021, 13, 3745.	2.0	20
36	A Study on exfoliation of Expanded Graphite Stacks in Candelilla Wax. <i>Materials</i> , 2019, 12, 2530.	1.3	19

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37	Cold-cured epoxy-silica hybrids: Effects of large variation in specimen thickness on the evolution of the <i>T_g</i> and related properties. <i>Polymer Engineering and Science</i> , 2011, 51, 358-368.	1.5	15
38	Ultrasonic Assisted Consolidation of Commingled Thermoplastic/Glass Fiber Rovings. <i>Frontiers in Materials</i> , 2015, 2, .	1.2	14
39	Experimental Cold-Cured Nanostructured Epoxy-Based Hybrid Formulations: Properties and Durability Performance. <i>Polymers</i> , 2020, 12, 476.	2.0	13
40	Autofluorescence of Model Polyethylene Terephthalate Nanoplastics for Cell Interaction Studies. <i>Nanomaterials</i> , 2022, 12, 1560.	1.9	13
41	The influence of the stress relaxation and creep recovery times on the viscoelastic properties of open cell foams. <i>Polymer Engineering and Science</i> , 2009, 49, 1142-1150.	1.5	12
42	Novel Epoxy-Silica Hybrid Adhesives for Concrete and Structural Materials: Properties and Durability Issues. <i>Advanced Materials Research</i> , 2013, 687, 94-99.	0.3	12
43	Environmental effects on the adhesion properties of nanostructured epoxy-silica hybrids. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	12
44	A Measure of CNTs Dispersion in Polymers With Branched Molecular Architectures by UDMA. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 731-737.	1.1	12
45	An Erosion-Corrosion Investigation of Coated Steel for Applications in the Oil and Gas Field, Based on Bipolar Electrochemistry. <i>Coatings</i> , 2020, 10, 92.	1.2	12
46	Air-Coupled Ultrasonic Cure Monitoring of Unsaturated Polyester Resins. <i>Macromolecular Symposia</i> , 2007, 247, 50-58.	0.4	11
47	Ultrasonic transducers for cure monitoring: design, modelling and validation. <i>Measurement Science and Technology</i> , 2011, 22, 124002.	1.4	10
48	Sustainable Materials from Fish Industry Waste for Electrochemical Energy Systems. <i>Energies</i> , 2021, 14, 7928.	1.6	10
49	Sustainable Production of Stiff and Crystalline Bacterial Cellulose from Orange Peel Extract. <i>Sustainability</i> , 2022, 14, 2247.	1.6	10
50	Environmental aging of cold-cured epoxy-silica hybrids prepared by sol-gel process. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
51	Carbon Fiber Reinforced Polymers. <i>Materials</i> , 2021, 14, 5545.	1.3	8
52	Characterization and dating of waterlogged woods from an ancient harbor in Italy. <i>Journal of Cultural Heritage</i> , 2014, 15, 213-217.	1.5	7
53	Resin pressure evolution during autoclave curing of epoxy matrix composites. <i>Polymer Engineering and Science</i> , 2017, 57, 631-637.	1.5	7
54	Out-Of-Plane Permeability Evaluation of Carbon Fiber Preforms by Ultrasonic Wave Propagation. <i>Materials</i> , 2020, 13, 2684.	1.3	7

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55	Orientation of Graphene Nanoplatelets in Thermosetting Matrices. IEEE Nanotechnology Magazine, 2016, 15, 877-883.	1.1	6
56	Carbon nanotube alignment in a thermosetting resin. AIP Conference Proceedings, 2014, , .	0.3	3
57	Time-dependent shape of bistable unsymmetric carbon fibers-epoxy thin laminates. Smart Materials and Structures, 2021, 30, 035004.	1.8	3
58	Emerging polymer-based nanocomposites. Nanomaterials and Nanotechnology, 2022, 12, 184798042210848.	1.2	3
59	Mechanical and Microstructural Properties of HDPE Pipes Manufactured via Orbital Friction Stir Welding. Materials, 2022, 15, 3810.	1.3	3
60	Using Ultrasound Wave Propagation to Estimate the Dispersion of Nanostructures in Polymers with Complex Molecular Architectures. , 2015, , .		2
61	Stress relaxation in asymmetric bistable composites: Experiments and simulations. Materials Today: Proceedings, 2021, 34, 10-15.	0.9	2
62	Nanofilled polyethylene terephthalate fibers for the production of hierarchical polymer based composites. , 2015, , .		1
63	Resin flow and void formation in an autoclave cure cycle. AIP Conference Proceedings, 2016, , .	0.3	1
64	Ultrasound for Material Characterization and Processing. Materials, 2021, 14, 3891.	1.3	1
65	Morphological characterization of silica obtained by calcination of methacrylic and epoxy “ silica hybrid systems. AIP Conference Proceedings, 2016, , .	0.3	0
66	Relaxation of residual stresses during curing of polymer matrix composites. AIP Conference Proceedings, 2018, , .	0.3	0
67	Stereological analysis of short basalt fiber composites. AIP Conference Proceedings, 2019, , .	0.3	0
68	Air-coupled ultrasonic cure monitoring of composite matrices. , 0, , .		0