

Giulia Fredi

List of Publications by Year in descending order

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41
papers

853
citations

471061

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h-index

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all docs

41
docs citations

41
times ranked

540
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional epoxy/carbon fiber laminates for thermal energy storage and release. <i>Composites Science and Technology</i> , 2018, 158, 101-111.	3.8	75
2	Graphitic microstructure and performance of carbon fibre Li-ion structural battery electrodes. <i>Multifunctional Materials</i> , 2018, 1, 015003.	2.4	65
3	Wax Confinement with Carbon Nanotubes for Phase Changing Epoxy Blends. <i>Polymers</i> , 2017, 9, 405.	2.0	58
4	Recycling of bioplastic waste: A review. <i>Advanced Industrial and Engineering Polymer Research</i> , 2021, 4, 159-177.	2.7	50
5	Multifunctional glass fiber/polyamide composites with thermal energy storage/release capability. <i>EXPRESS Polymer Letters</i> , 2018, 12, 349-364.	1.1	48
6	Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. <i>Materials</i> , 2019, 12, 1286.	1.3	45
7	Novel reactive thermoplastic resin as a matrix for laminates containing phase change microcapsules. <i>Polymer Composites</i> , 2019, 40, 3711-3724.	2.3	42
8	Bioinspired Polydopamine Coating as an Adhesion Enhancer Between Paraffin Microcapsules and an Epoxy Matrix. <i>ACS Omega</i> , 2020, 5, 19639-19653.	1.6	33
9	Application of the thermal energy storage concept to novel epoxy-“short carbon fiber composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47434.	1.3	30
10	Thermo-Mechanical Behavior of Novel Wood Laminae-Thermoplastic Starch Biodegradable Composites With Thermal Energy Storage/Release Capability. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	29
11	Discontinuous carbon fiber/polyamide composites with microencapsulated paraffin for thermal energy storage. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47408.	1.3	29
12	Tuning thermo-mechanical properties of poly(lactic acid) films through blending with bioderived poly(alkylene furanoate)s with different alkyl chain length for sustainable packaging. <i>Polymer</i> , 2021, 218, 123527.	1.8	29
13	Novel Biobased Polylactic Acid/Poly(pentamethylene 2,5-furanoate) Blends for Sustainable Food Packaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13742-13750.	3.2	29
14	Melt-spun polypropylene filaments containing paraffin microcapsules for multifunctional hybrid yarns and smart thermoregulating thermoplastic composites. <i>EXPRESS Polymer Letters</i> , 2019, 13, 1071-1087.	1.1	27
15	Innovative Bio-based Poly(Lactic Acid)/Poly(Alkylene Furanoate)s Fiber Blends for Sustainable Textile Applications. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3948-3963.	2.4	27
16	Detailed experimental and theoretical investigation of the thermomechanical properties of epoxy composites containing paraffin microcapsules for thermal management. <i>Polymer Engineering and Science</i> , 2020, 60, 1202-1220.	1.5	26
17	Dynamic-mechanical response of carbon fiber laminates with a reactive thermoplastic resin containing phase change microcapsules. <i>Mechanics of Time-Dependent Materials</i> , 2020, 24, 395-418.	2.3	20
18	Effect of phase change microcapsules on the thermo-mechanical, fracture and heat storage properties of unidirectional carbon/epoxy laminates. <i>Polymer Testing</i> , 2020, 91, 106747.	2.3	18

#	ARTICLE	IF	CITATIONS
19	Multifunctionality of Reduced Graphene Oxide in Bioderived Polylactide/Poly(Dodecylene Furanoate) Nanocomposite Films. <i>Molecules</i> , 2021, 26, 2938.	1.7	16
20	Mechanical and Functional Properties of Novel Biobased Poly(decylene-2,5-furanoate)/Carbon Nanotubes Nanocomposite Films. <i>Polymers</i> , 2020, 12, 2459.	2.0	14
21	Multifunctional structural composites for thermal energy storage. <i>Multifunctional Materials</i> , 2020, 3, 042001.	2.4	14
22	A genipin crosslinked silk fibroin monolith by compression molding with recovering mechanical properties in physiological conditions. <i>Cell Reports Physical Science</i> , 2021, 2, 100605.	2.8	13
23	Sustainable textile fibers of bioderived polylactide/poly(pentamethylene 2,5-furanoate) blends. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51740.	1.3	13
24	Polydopamine-Coated Paraffin Microcapsules as a Multifunctional Filler Enhancing Thermal and Mechanical Performance of a Flexible Epoxy Resin. <i>Journal of Composites Science</i> , 2020, 4, 174.	1.4	11
25	Cyclic Olefin Copolymer Interleaves for Thermally Mendable Carbon/Epoxy Laminates. <i>Molecules</i> , 2020, 25, 5347.	1.7	10
26	Thermophysical Properties of Multifunctional Syntactic Foams Containing Phase Change Microcapsules for Thermal Energy Storage. <i>Polymers</i> , 2021, 13, 1790.	2.0	10
27	Polyethylene-based single polymer laminates: Synergistic effects of nanosilica and metal hydroxides. <i>Journal of Reinforced Plastics and Composites</i> , 2019, 38, 62-73.	1.6	9
28	Statistical Modeling and Optimization of the Drawing Process of Bioderived Polylactide/Poly(dodecylene furanoate) Wet-Spun Fibers. <i>Polymers</i> , 2022, 14, 396.	2.0	9
29	Evaluating the Multifunctional Performance of Structural Composites for Thermal Energy Storage. <i>Polymers</i> , 2021, 13, 3108.	2.0	8
30	Improving the Thermomechanical Properties of Poly(lactic acid) via Reduced Graphene Oxide and Bioderived Poly(decamethylene 2,5-furandicarboxylate). <i>Materials</i> , 2022, 15, 1316.	1.3	8
31	Novel phase change materials using thermoplastic composites. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	6
32	Electrospun Shape-Stabilized Phase Change Materials Based on Photo-Crosslinked Polyethylene Oxide. <i>Polymers</i> , 2021, 13, 2979.	2.0	6
33	Thin Films of Plasma-Polymerized n-Hexane and ZnO Nanoparticles Co-Deposited via Atmospheric Pressure Plasma Jet. <i>Coatings</i> , 2021, 11, 167.	1.2	6
34	Improving the Wet-Spinning and Drawing Processes of Poly(lactide)/Poly(ethylene furanoate) and Polylactide/Poly(dodecamethylene furanoate) Fiber Blends. <i>Polymers</i> , 2022, 14, 2910.	2.0	6
35	Mechanical Behaviour of Multifunctional Epoxy/Hollow Glass Microspheres/Paraffin Microcapsules Syntactic Foams for Thermal Management. <i>Polymers</i> , 2021, 13, 2896.	2.0	5
36	Synergistic effects of metal hydroxides and fumed nanosilica as fire retardants for polyethylene. <i>Flame Retardancy and Thermal Stability of Materials</i> , 2019, 2, 30-48.	1.1	4

#	ARTICLE	IF	CITATIONS
37	Thermal management with polymer composites. EXPRESS Polymer Letters, 2019, 13, 844-844.	1.1	2
38	Thermal Energy Storage with Polymer Composites. , 0, , .		2
39	Combined effect of fumed silica and metal hydroxides as fire retardants in PE single-polymer composites. AIP Conference Proceedings, 2018, , .	0.3	1
40	A Genipin Crosslinked Silk Fibroin Bulk Material by Compression Moulding with Self-Recovering Mechanical Properties in Physiological Conditions. SSRN Electronic Journal, 0, , .	0.4	0
41	Special Issue "Investigation of Polymer Nanocomposites"™ Performance. Molecules, 2022, 27, 1180.	1.7	0