

Liberata Guadagno

List of Publications by Year in descending order

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120
papers

2,949
citations

126708

33
h-index

197535

49
g-index

120
all docs

120
docs citations

120
times ranked

2386
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-mechanical properties and electrical mapping of nanoscale domains of carbon-based structural resins. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5473-5481.	2.0	4
2	Design of self-healing biodegradable polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5463-5472.	2.0	7
3	Thermal and mechanical characterization of complex electrospun systems based on polycaprolactone and gelatin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5391-5399.	2.0	14
4	High-Performance Properties of an Aerospace Epoxy Resin Loaded with Carbon Nanofibers and Glycidyl Polyhedral Oligomeric Silsesquioxane. <i>Aerospace</i> , 2022, 9, 222.	1.1	10
5	An Overview on Carbon Fiber-Reinforced Epoxy Composites: Effect of Graphene Oxide Incorporation on Composites Performance. <i>Polymers</i> , 2022, 14, 1548.	2.0	26
6	Electrospun Membranes Designed for Burst Release of New Gold-Complexes Inducing Apoptosis of Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7147.	1.8	10
7	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , 2021, 34, 243-249.	0.9	14
8	Graphene/epoxy resins: Rheological behavior and morphological analysis by Atomic Force Microscopy (AFM). <i>Materials Today: Proceedings</i> , 2021, 34, 160-163.	0.9	6
9	Damping assessment of new multifunctional epoxy resin for aerospace structures. <i>Materials Today: Proceedings</i> , 2021, 34, 180-183.	0.9	8
10	Self-sensing nanocomposites in automotive/aeronautic field. <i>Materials Today: Proceedings</i> , 2021, 34, 125-127.	0.9	2
11	Electrical behavior at nanometer scale of functionalized graphene-based structural resins. <i>AIP Conference Proceedings</i> , 2021, . .	0.3	1
12	New Aircraft Anti/de-Icing Technologies. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1024, 012012.	0.3	0
13	Electromagnetically Stimuli-Responsive Nanoparticles-Based Systems for Biomedical Applications: Recent Advances and Future Perspectives. <i>Nanomaterials</i> , 2021, 11, 848.	1.9	29
14	Self-Sensing Nanocomposites for Structural Applications: Choice Criteria. <i>Nanomaterials</i> , 2021, 11, 833.	1.9	8
15	Special Issue "10th EASN International Conference on Innovation in Aviation & Space to the Satisfaction of the European Citizens". <i>Aerospace</i> , 2021, 8, 111.	1.1	0
16	Tunneling Atomic Force Microscopy Analysis of Supramolecular Self-Responsive Nanocomposites. <i>Polymers</i> , 2021, 13, 1401.	2.0	11
17	Eco-friendly polymer nanocomposites designed for self-healing applications. <i>Polymer</i> , 2021, 223, 123718.	1.8	18
18	Hygrothermal durability of epoxy adhesives used in civil structural applications. <i>Composite Structures</i> , 2021, 265, 113591.	3.1	34

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19	Sugarcane Bagasse-Derived Activated Carbon- (AC-) Epoxy Vitriimer Biocomposite: Thermomechanical and Self-Healing Performance. International Journal of Polymer Science, 2021, 2021, 1-7.	1.2	8
20	Resistive Response of Carbon Nanotube-Based Composites Subjected to Water Aging. Nanomaterials, 2021, 11, 2183.	1.9	10
21	Ice-Prevention and De-Icing Capacity of Epoxy Resin Filled with Hybrid Carbon-Nanostructured Forms: Self-Heating by Joule Effect. Nanomaterials, 2021, 11, 2427.	1.9	7
22	Flexible eco-friendly multilayer film heaters. Composites Part B: Engineering, 2021, 224, 109208.	5.9	16
23	Design of Multifunctional Composites: New Strategy to Save Energy and Improve Mechanical Performance. Nanomaterials, 2020, 10, 2285.	1.9	14
24	Low-Voltage Icing Protection Film for Automotive and Aeronautical Industries. Nanomaterials, 2020, 10, 1343.	1.9	23
25	Encapsulation of health-monitoring agent in poly-methyl-methacrylate microcapsules using supercritical emulsion extraction. Journal of Industrial and Engineering Chemistry, 2020, 90, 287-299.	2.9	11
26	Electromagnetic Characterization of Polycaprolactone electrospun nanofibers filled with Fe ₃ O ₄ Nanoparticles. , 2020, , .		4
27	Simulation of self-heating process on the nanoscale: a multiscale approach for molecular models of nanocomposite materials. Nanoscale Advances, 2020, 2, 3164-3180.	2.2	15
28	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. Nanomaterials, 2020, 10, 434.	1.9	32
29	Rheological and Morphological Properties of Non-Covalently Functionalized Graphene-Based Structural Epoxy Resins with Intrinsic Electrical Conductivity and Thermal Stability. Nanomaterials, 2020, 10, 1310.	1.9	19
30	Development and characterization of antitumoral electrospun polycaprolactone/functionalized Fe ₃ O ₄ hybrid membranes. Materials Today Chemistry, 2020, 17, 100309.	1.7	21
31	Multifunctionality of structural nanohybrids: the crucial role of carbon nanotube covalent and non-covalent functionalization in enabling high thermal, mechanical and self-healing performance. Nanotechnology, 2020, 31, 225708.	1.3	41
32	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). Lecture Notes in Electrical Engineering, 2020, , 375-387.	0.3	0
33	Strong Interaction with Carbon Filler of Polymers Obtained by Pyrene Functionalized Hoveyda-Grubbs 2nd Generation Catalyst. Polymers, 2019, 11, 1261.	2.0	1
34	Enhanced Durability of Graphene-Based Epoxy Films. Key Engineering Materials, 2019, 813, 279-284.	0.4	0
35	Nanocarbon/Poly(Lactic) Acid for 3D Printing: Effect of Fillers Content on Electromagnetic and Thermal Properties. Materials, 2019, 12, 2369.	1.3	42
36	Different Methods of Dispersing Carbon Nanotubes in Epoxy Resin and Initial Evaluation of the Obtained Nanocomposite as a Matrix of Carbon Fiber Reinforced Laminate in Terms of Vibroacoustic Performance and Flammability. Materials, 2019, 12, 2998.	1.3	22

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37	Enhancement of photooxidative and corrosion resistance of epoxy/graphene water-based coatings on metallic substrate. <i>Progress in Organic Coatings</i> , 2019, 135, 7-18.	1.9	13
38	Carbon-Based Aeronautical Epoxy Nanocomposites: Effectiveness of Atomic Force Microscopy (AFM) in Investigating the Dispersion of Different Carbonaceous Nanoparticles. <i>Polymers</i> , 2019, 11, 832.	2.0	16
39	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. <i>Polymers</i> , 2019, 11, 903.	2.0	58
40	Multifunctional Performance of a Nano-Modified Fiber Reinforced Composite Aeronautical Panel. <i>Materials</i> , 2019, 12, 869.	1.3	19
41	UV Irradiated Graphene-Based Nanocomposites: Change in the Mechanical Properties by Local HarmoniX Atomic Force Microscopy Detection. <i>Materials</i> , 2019, 12, 962.	1.3	10
42	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. <i>Polymers</i> , 2019, 11, 1865.	2.0	17
43	Effect of functionalized carbon nanofillers on the rheological behavior of structural epoxy resins. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
44	Electrical conductivity of carbon nanofiber reinforced resins: Potentiality of Tunneling Atomic Force Microscopy (TUNA) technique. <i>Composites Part B: Engineering</i> , 2018, 143, 148-160.	5.9	47
45	Multifunctional graphene/POSS epoxy resin tailored for aircraft lightning strike protection. <i>Composites Part B: Engineering</i> , 2018, 140, 44-56.	5.9	98
46	Experimental and theoretical study on piezoresistive properties of a structural resin reinforced with carbon nanotubes for strain sensing and damage monitoring. <i>Composites Part B: Engineering</i> , 2018, 145, 90-99.	5.9	79
47	Multidisciplinary challenge in the design of a MWCNTs-based polymer smart structure. <i>MATEC Web of Conferences</i> , 2018, 233, 00024.	0.1	1
48	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. <i>MATEC Web of Conferences</i> , 2018, 233, 00021.	0.1	3
49	Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , 2018, 233, 00022.	0.1	0
50	Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , 2018, 233, 00023.	0.1	0
51	Design of self-healing catalysts for aircraft application. <i>International Journal of Structural Integrity</i> , 2018, 9, 723-736.	1.8	6
52	Multi-functional nanotechnology integration for aeronautical structures performance enhancement. <i>International Journal of Structural Integrity</i> , 2018, 9, 737-752.	1.8	19
53	Dynamic performance of self-sensing epoxy resin for aerospace structures. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
54	Thermal degradation and fire properties of epoxy modified resins. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3

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55	Anisotropic thermal conductivity study of nano-additives/epoxy based nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	1
56	Piezoresistive strain sensing of carbon nanotubes-based composite skin for aeronautical morphing structures. , 2018, , .		4
57	Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. Nanotechnology, 2017, 28, 094001.	1.3	72
58	Experimental evaluation and modeling of thermal conductivity of tetrafunctional epoxy resin containing different carbon nanostructures. Polymer Engineering and Science, 2017, 57, 779-786.	1.5	25
59	Protection of graphene supported ROMP catalyst through polymeric globular shell in self-healing materials. Composites Part B: Engineering, 2017, 116, 352-360.	5.9	22
60	Development of self-healing multifunctional materials. Composites Part B: Engineering, 2017, 128, 30-38.	5.9	58
61	Development of a new stable ruthenium initiator suitably designed for self-repairing applications in high reactive environments. Journal of Industrial and Engineering Chemistry, 2017, 54, 234-251.	2.9	28
62	New structure of diamine curing agent for epoxy resins with self-restoration ability: Synthesis and spectroscopy characterization. Journal of Molecular Structure, 2017, 1130, 400-407.	1.8	13
63	Nano-Charged Polypropylene Application: Realistic Perspectives for Enhancing Durability. Materials, 2017, 10, 943.	1.3	34
64	Toughening of Epoxy Adhesives by Combined Interaction of Carbon Nanotubes and Silsesquioxanes. Materials, 2017, 10, 1131.	1.3	34
65	Evaluation of the Mechanical Properties of Microcapsule-Based Self-Healing Composites. International Journal of Aerospace Engineering, 2016, 2016, 1-10.	0.5	13
66	Thermal investigation of tetrafunctional epoxy resin filled with different carbonaceous nanostructures. AIP Conference Proceedings, 2016, , .	0.3	0
67	The influence of different dispersion methods on the size of the aggregate of CNTs in epoxy resin for the manufacturing of carbon fiber reinforced composites. AIP Conference Proceedings, 2016, , .	0.3	6
68	Rheological and morphological properties of graphene-epoxy nanocomposites. AIP Conference Proceedings, 2016, , .	0.3	3
69	Analysis of the Effects of Hydrotalcite Inclusion on the Temperature-Sensing Properties of CNT-Epoxy Nanocomposites. IEEE Sensors Journal, 2016, 16, 7977-7985.	2.4	7
70	Self-repairing CFRPs targeted towards structural aerospace applications. International Journal of Structural Integrity, 2016, 7, 656-670.	1.8	34
71	Mechanical properties of a carbon fabric-reinforced epoxy composite with carbon nanotubes and a flame retardant. International Journal of Structural Integrity, 2016, 7, 630-644.	1.8	9
72	Morphological and electrical properties of epoxy-based composites reinforced with exfoliated graphite. AIP Conference Proceedings, 2016, , .	0.3	0

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73	Fatigue delamination of a carbon fabric/epoxy laminate with carbon nanotubes. Composites Science and Technology, 2016, 131, 32-39.	3.8	22
74	Viscoelastic properties of graphene-based epoxy resins. AIP Conference Proceedings, 2015, , .	0.3	4
75	Carbon-supported Copper Nanomaterials: Recyclable Catalysts for Huisgen [3+2] Cycloaddition Reactions. Chemistry - A European Journal, 2015, 21, 10763-10770.	1.7	65
76	Morphological and electrical characterization of epoxy resin filled with exfoliated graphite. , 2015, , .		1
77	Thermal conductivity of epoxy resins filled with <scp>MWCNT</scp> and hydrotalcite clay: Experimental data and theoretical predictive modeling. Polymer Composites, 2015, 36, 1118-1123.	2.3	19
78	Relationships between nanofiller morphology and viscoelastic properties in CNF/epoxy resins. Polymer Composites, 2015, 36, 1152-1160.	2.3	44
79	Strain and damage monitoring in carbon-nanotube-based composite under cyclic strain. Composites Part A: Applied Science and Manufacturing, 2015, 71, 9-16.	3.8	84
80	Graphene-based structural adhesive to enhance adhesion performance. RSC Advances, 2015, 5, 27874-27886.	1.7	67
81	Synthesis of ruthenium catalysts functionalized graphene oxide for self-healing applications. Polymer, 2015, 69, 330-342.	1.8	33
82	Temperature effects on the electrical properties of multiphase polymer composites. , 2014, , .		0
83	Influence of nanofiller morphology on the viscoelastic properties of CNF/epoxy resins. AIP Conference Proceedings, 2014, , .	0.3	15
84	Thermal conductivity of epoxy nanocomposites filled with MWCNT and hydrotalcite clay: A preliminary study. , 2014, , .		1
85	Development of multifunctional carbon fiber reinforced composites (CFRCs) - Manufacturing process. , 2014, , .		6
86	Development of epoxy mixtures for application in aeronautics and aerospace. RSC Advances, 2014, 4, 15474-15488.	1.7	133
87	Healing efficiency and dynamic mechanical properties of self-healing epoxy systems. Smart Materials and Structures, 2014, 23, 045001.	1.8	65
88	Behavior of epoxy composite resins in environments at high moisture content. Journal of Polymer Research, 2013, 20, 1.	1.2	17
89	Application of Self-Healing Materials in Aerospace Engineering. , 2013, , 401-412.		8
90	The role of carbon nanofiber defects on the electrical and mechanical properties of CNF-based resins. Nanotechnology, 2013, 24, 305704.	1.3	97

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91	Improvement of the electrical conductivity in multiphase epoxy-based MWCNT nanocomposites by means of an optimized clay content. <i>Composites Science and Technology</i> , 2013, 89, 69-76.	3.8	38
92	Healing efficiency of epoxy-based materials for structural applications. <i>Polymer Composites</i> , 2013, 34, 1525-1532.	2.3	37
93	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites. , 2012, , .		9
94	Effect of incorporation of carbon nanotubes on the mechanical properties of epoxy-amine composites. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	8
95	Healing efficiency of epoxy-based materials for structural application. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	6
96	Comparison of the physical properties of epoxy-based composites filled with different types of carbon nanotubes for aeronautic applications. <i>Advances in Polymer Technology</i> , 2012, 31, 205-218.	0.8	39
97	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation. , 2011, , .		3
98	Use of Hoveyda's Grubbs™ second generation catalyst in self-healing epoxy mixtures. <i>Composites Part B: Engineering</i> , 2011, 42, 296-301.	5.9	55
99	Cure Behavior and Physical Properties of Epoxy Resin Filled with Multiwalled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2686-2693.	0.9	49
100	Effect of carbon nanotubes on the photo-oxidative durability of syndiotactic polypropylene. <i>Polymer Degradation and Stability</i> , 2010, 95, 1614-1626.	2.7	43
101	Cure behavior and mechanical properties of structural self-healing epoxy resins. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2413-2423.	2.4	45
102	Dependence of electrical properties of polypropylene isomers on morphology and chain conformation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 135405.	1.3	12
103	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 2419-2430.	5.4	150
104	Mechano-reversible physical aging of elastic oriented syndiotactic polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 599-606.	2.4	2
105	Structural and morphological changes during UV irradiation of the trans-planar form of syndiotactic polypropylene. <i>Polymer Degradation and Stability</i> , 2008, 93, 176-187.	2.7	12
106	Morphology and Elasticity of Oriented Syndiotactic Polypropylene from Solvent Cast Films. <i>Crystal Growth and Design</i> , 2006, 6, 1703-1710.	1.4	4
107	Temperature and Orientation Induced Polymorphic Behavior of Syndiotactic Polypropylene. <i>Macromolecules</i> , 2005, 38, 8755-8764.	2.2	20
108	Photooxidation of spherulene linear low-density polyethylene films subjected to environmental weathering. 1. Changes in mechanical properties. <i>Polymer Degradation and Stability</i> , 2004, 85, 1009-1013.	2.7	38

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109	Structural and Morphological Changes during UV Irradiation of the Crystalline Helical Form of Syndiotactic Polypropylene. <i>Macromolecules</i> , 2004, 37, 9826-9834.	2.2	16
110	Influence of the Initial Morphology on the Elasticity of Oriented Syndiotactic Polypropylene. <i>Macromolecules</i> , 2004, 37, 5977-5984.	2.2	15
111	Development of Form II Crystallinity in Oriented Syndiotactic Polypropylene: A Role of the trans-Planar Mesophase. <i>Macromolecules</i> , 2003, 36, 6756-6765.	2.2	24
112	Cast-extruded syndiotactic polypropylene films: preliminary structural and mechanical results. <i>Macromolecular Symposia</i> , 2002, 180, 23-32.	0.4	5
113	Elasticity of the Oriented Mesomorphic Form of Syndiotactic Polypropylene. <i>Macromolecules</i> , 2002, 35, 3921-3927.	2.2	47
114	Structural changes during annealing of the crystalline helical form of syndiotactic polypropylene. <i>Journal of Macromolecular Science - Physics</i> , 2002, 41, 289-305.	0.4	5
115	Structure and Physical Properties of Syndiotactic Polypropylene Oriented from Different Polymorphs. <i>Macromolecules</i> , 2001, 34, 2512-2521.	2.2	44
116	Chemical and morphological modifications of irradiated linear low density polyethylene (LLDPE). <i>Polymer Degradation and Stability</i> , 2001, 72, 175-186.	2.7	105
117	Mechanical and transport properties of irradiated linear low density polyethylene (LLDPE). <i>Polymer Degradation and Stability</i> , 2001, 72, 239-247.	2.7	41
118	Mesomorphic Form of Syndiotactic Polypropylene. <i>Macromolecules</i> , 2000, 33, 6200-6204.	2.2	92
119	Polymorphism of Oriented Syndiotactic Polypropylene. <i>Macromolecules</i> , 2000, 33, 6023-6030.	2.2	51
120	Dynamic Mechanical Properties of Structural Self-Healing Epoxy Resins. <i>Applied Mechanics and Materials</i> , 0, 62, 95-105.	0.2	8