

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	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. Carbon, 2009, 47, 2419-2430.	5.4	150
2	Development of epoxy mixtures for application in aeronautics and aerospace. RSC Advances, 2014, 4, 15474-15488.	1.7	133
3	Chemical and morphological modifications of irradiated linear low density polyethylene (LLDPE). Polymer Degradation and Stability, 2001, 72, 175-186.	2.7	105
4	Multifunctional graphene/POSS epoxy resin tailored for aircraft lightning strike protection. Composites Part B: Engineering, 2018, 140, 44-56.	5.9	98
5	The role of carbon nanofiber defects on the electrical and mechanical properties of CNF-based resins. Nanotechnology, 2013, 24, 305704.	1.3	97
6	Mesomorphic Form of Syndiotactic Polypropylene. Macromolecules, 2000, 33, 6200-6204.	2.2	92
7	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
8	Experimental and theoretical study on piezoresistive properties of a structural resin reinforced with carbon nanotubes for strain sensing and damage monitoring. Composites Part B: Engineering, 2018, 145, 90-99.	5.9	79
9	Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. Nanotechnology, 2017, 28, 094001.	1.3	72
10	Graphene-based structural adhesive to enhance adhesion performance. RSC Advances, 2015, 5, 27874-27886.	1.7	67
11	Healing efficiency and dynamic mechanical properties of self-healing epoxy systems. Smart Materials and Structures, 2014, 23, 045001.	1.8	65
12	Carbon-Supported Copper Nanomaterials: Recyclable Catalysts for Huisgen [3+2] Cycloaddition Reactions. Chemistry - A European Journal, 2015, 21, 10763-10770.	1.7	65
13	Development of self-healing multifunctional materials. Composites Part B: Engineering, 2017, 128, 30-38.	5.9	58
14	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. Polymers, 2019, 11, 903.	2.0	58
15	Use of Hoveyda-Grubbs™ second generation catalyst in self-healing epoxy mixtures. Composites Part B: Engineering, 2011, 42, 296-301.	5.9	55
16	Polymorphism of Oriented Syndiotactic Polypropylene. Macromolecules, 2000, 33, 6023-6030.	2.2	51
17	Cure Behavior and Physical Properties of Epoxy Resin Filled with Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 2686-2693.	0.9	49
18	Elasticity of the Oriented Mesomorphic Form of Syndiotactic Polypropylene. Macromolecules, 2002, 35, 3921-3927.	2.2	47

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19	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
20	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
21	Structure and Physical Properties of Syndiotactic Polypropylene Oriented from Different Polymorphs. <i>Macromolecules</i> , 2001, 34, 2512-2521.	2.2	44
22	Relationships between nanofiller morphology and viscoelastic properties in CNF/epoxy resins. <i>Polymer Composites</i> , 2015, 36, 1152-1160.	2.3	44
23	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
24	Nanocarbon/Poly(Lactic) Acid for 3D Printing: Effect of Fillers Content on Electromagnetic and Thermal Properties. <i>Materials</i> , 2019, 12, 2369.	1.3	42
25	Mechanical and transport properties of irradiated linear low density polyethylene (LLDPE). <i>Polymer Degradation and Stability</i> , 2001, 72, 239-247.	2.7	41
26	Multifunctionality of structural nanohybrids: the crucial role of carbon nanotube covalent and non-covalent functionalization in enabling high thermal, mechanical and self-healing performance. <i>Nanotechnology</i> , 2020, 31, 225708.	1.3	41
27	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
28	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
29	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
30	Healing efficiency of epoxy-based materials for structural applications. <i>Polymer Composites</i> , 2013, 34, 1525-1532.	2.3	37
31	Self-repairing CFRPs targeted towards structural aerospace applications. <i>International Journal of Structural Integrity</i> , 2016, 7, 656-670.	1.8	34
32	Nano-Charged Polypropylene Application: Realistic Perspectives for Enhancing Durability. <i>Materials</i> , 2017, 10, 943.	1.3	34
33	Toughening of Epoxy Adhesives by Combined Interaction of Carbon Nanotubes and Silsesquioxanes. <i>Materials</i> , 2017, 10, 1131.	1.3	34
34	Hygrothermal durability of epoxy adhesives used in civil structural applications. <i>Composite Structures</i> , 2021, 265, 113591.	3.1	34
35	Synthesis of ruthenium catalysts functionalized graphene oxide for self-healing applications. <i>Polymer</i> , 2015, 69, 330-342.	1.8	33
36	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. <i>Nanomaterials</i> , 2020, 10, 434.	1.9	32

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37	Electromagnetically Stimuli-Responsive Nanoparticles-Based Systems for Biomedical Applications: Recent Advances and Future Perspectives. <i>Nanomaterials</i> , 2021, 11, 848.	1.9	29
38	Development of a new stable ruthenium initiator suitably designed for self-repairing applications in high reactive environments. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 234-251.	2.9	28
39	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
40	Experimental evaluation and modeling of thermal conductivity of tetrafunctional epoxy resin containing different carbon nanostructures. <i>Polymer Engineering and Science</i> , 2017, 57, 779-786.	1.5	25
41	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
42	Low-Voltage Icing Protection Film for Automotive and Aeronautical Industries. <i>Nanomaterials</i> , 2020, 10, 1343.	1.9	23
43	Fatigue delamination of a carbon fabric/epoxy laminate with carbon nanotubes. <i>Composites Science and Technology</i> , 2016, 131, 32-39.	3.8	22
44	Protection of graphene supported ROMP catalyst through polymeric globular shell in self-healing materials. <i>Composites Part B: Engineering</i> , 2017, 116, 352-360.	5.9	22
45	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. <i>Materials</i> , 2019, 12, 2998.	1.3	22
46	Development and characterization of antitumoral electrospun polycaprolactone/functionalized Fe ₃ O ₄ hybrid membranes. <i>Materials Today Chemistry</i> , 2020, 17, 100309.	1.7	21
47	Temperature and Orientation Induced Polymorphic Behavior of Syndiotactic Polypropylene. <i>Macromolecules</i> , 2005, 38, 8755-8764.	2.2	20
48	Thermal conductivity of epoxy resins filled with MWCNT and hydrotalcite clay: Experimental data and theoretical predictive modeling. <i>Polymer Composites</i> , 2015, 36, 1118-1123.	2.3	19
49	Multi-functional nanotechnology integration for aeronautical structures performance enhancement. <i>International Journal of Structural Integrity</i> , 2018, 9, 737-752.	1.8	19
50	Multifunctional Performance of a Nano-Modified Fiber Reinforced Composite Aeronautical Panel. <i>Materials</i> , 2019, 12, 869.	1.3	19
51	Rheological and Morphological Properties of Non-Covalently Functionalized Graphene-Based Structural Epoxy Resins with Intrinsic Electrical Conductivity and Thermal Stability. <i>Nanomaterials</i> , 2020, 10, 1310.	1.9	19
52	Eco-friendly polymer nanocomposites designed for self-healing applications. <i>Polymer</i> , 2021, 223, 123718.	1.8	18
53	Behavior of epoxy composite resins in environments at high moisture content. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	17
54	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. <i>Polymers</i> , 2019, 11, 1865.	2.0	17

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55	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
56	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
57	Flexible eco-friendly multilayer film heaters. <i>Composites Part B: Engineering</i> , 2021, 224, 109208.	5.9	16
58	Influence of the Initial Morphology on the Elasticity of Oriented Syndiotactic Polypropylene. <i>Macromolecules</i> , 2004, 37, 5977-5984.	2.2	15
59	Influence of nanofiller morphology on the viscoelastic properties of CNF/epoxy resins. <i>AIP Conference Proceedings</i> , 2014, . .	0.3	15
60	Simulation of self-heating process on the nanoscale: a multiscale approach for molecular models of nanocomposite materials. <i>Nanoscale Advances</i> , 2020, 2, 3164-3180.	2.2	15
61	Design of Multifunctional Composites: New Strategy to Save Energy and Improve Mechanical Performance. <i>Nanomaterials</i> , 2020, 10, 2285.	1.9	14
62	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , 2021, 34, 243-249.	0.9	14
63	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
64	Evaluation of the Mechanical Properties of Microcapsule-Based Self-Healing Composites. <i>International Journal of Aerospace Engineering</i> , 2016, 2016, 1-10.	0.5	13
65	New structure of diamine curing agent for epoxy resins with self-restoration ability: Synthesis and spectroscopy characterization. <i>Journal of Molecular Structure</i> , 2017, 1130, 400-407.	1.8	13
66	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
67	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
68	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
69	Encapsulation of health-monitoring agent in poly-methyl-methacrylate microcapsules using supercritical emulsion extraction. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 287-299.	2.9	11
70	Tunneling Atomic Force Microscopy Analysis of Supramolecular Self-Responsive Nanocomposites. <i>Polymers</i> , 2021, 13, 1401.	2.0	11
71	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
72	Resistive Response of Carbon Nanotube-Based Composites Subjected to Water Aging. <i>Nanomaterials</i> , 2021, 11, 2183.	1.9	10

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73	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
74	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
75	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites. , 2012, , .		9
76	Mechanical properties of a carbon fabric-reinforced epoxy composite with carbon nanotubes and a flame retardant. <i>International Journal of Structural Integrity</i> , 2016, 7, 630-644.	1.8	9
77	Dynamic Mechanical Properties of Structural Self-Healing Epoxy Resins. <i>Applied Mechanics and Materials</i> , 0, 62, 95-105.	0.2	8
78	Effect of incorporation of carbon nanotubes on the mechanical properties of epoxy-amine composites. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	8
79	Application of Self-Healing Materials in Aerospace Engineering. , 2013, , 401-412.		8
80	Damping assessment of new multifunctional epoxy resin for aerospace structures. <i>Materials Today: Proceedings</i> , 2021, 34, 180-183.	0.9	8
81	Self-Sensing Nanocomposites for Structural Applications: Choice Criteria. <i>Nanomaterials</i> , 2021, 11, 833.	1.9	8
82	Sugarcane Bagasse-Derived Activated Carbon- (AC-) Epoxy Vitrimer Biocomposite: Thermomechanical and Self-Healing Performance. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-7.	1.2	8
83	Analysis of the Effects of Hydrotalcite Inclusion on the Temperature-Sensing Properties of CNT-Epoxy Nanocomposites. <i>IEEE Sensors Journal</i> , 2016, 16, 7977-7985.	2.4	7
84	Ice-Prevention and De-Icing Capacity of Epoxy Resin Filled with Hybrid Carbon-Nanostructured Forms: Self-Heating by Joule Effect. <i>Nanomaterials</i> , 2021, 11, 2427.	1.9	7
85	Design of self-healing biodegradable polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5463-5472.	2.0	7
86	Healing efficiency of epoxy-based materials for structural application. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	6
87	Development of multifunctional carbon fiber reinforced composites (CFRCs) - Manufacturing process. , 2014, , .		6
88	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. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	6
89	Design of self-healing catalysts for aircraft application. <i>International Journal of Structural Integrity</i> , 2018, 9, 723-736.	1.8	6
90	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

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91	Cast-extruded syndiotactic polypropylene films: preliminary structural and mechanical results. <i>Macromolecular Symposia</i> , 2002, 180, 23-32.	0.4	5
92	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
93	Morphology and Elasticity of Oriented Syndiotactic Polypropylene from Solvent Cast Films. <i>Crystal Growth and Design</i> , 2006, 6, 1703-1710.	1.4	4
94	Viscoelastic properties of graphene-based epoxy resins. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	4
95	Dynamic performance of self-sensing epoxy resin for aerospace structures. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
96	Electromagnetic Characterization of Polycaprolactone electrospun nanofibers filled with Fe ₃ O ₄ Nanoparticles. , 2020, , .		4
97	Piezoresistive strain sensing of carbon nanotubes-based composite skin for aeronautical morphing structures. , 2018, , .		4
98	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
99	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation. , 2011, , .		3
100	Rheological and morphological properties of graphene-epoxy nanocomposites. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
101	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. <i>MATEC Web of Conferences</i> , 2018, 233, 00021.	0.1	3
102	Thermal degradation and fire properties of epoxy modified resins. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
103	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
104	Self-sensing nanocomposites in automotive/aeronautic field. <i>Materials Today: Proceedings</i> , 2021, 34, 125-127.	0.9	2
105	Thermal conductivity of epoxy nanocomposites filled with MWCNT and hydrotalcite clay: A preliminary study. , 2014, , .		1
106	Morphological and electrical characterization of epoxy resin filled with exfoliated graphite. , 2015, , .		1
107	Multidisciplinary challenge in the design of a MWCNTs-based polymer smart structure. <i>MATEC Web of Conferences</i> , 2018, 233, 00024.	0.1	1
108	Anisotropic thermal conductivity study of nano-additives/epoxy based nanocomposites. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1

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109	Strong Interaction with Carbon Filler of Polymers Obtained by Pyrene Functionalized Hoveyda-Grubbs 2nd Generation Catalyst. <i>Polymers</i> , 2019, 11, 1261.	2.0	1
110	Effect of functionalized carbon nanofillers on the rheological behavior of structural epoxy resins. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
111	Electrical behavior at nanometer scale of functionalized graphene-based structural resins. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	1
112	Temperature effects on the electrical properties of multiphase polymer composites. , 2014, , .		0
113	Thermal investigation of tetrafunctional epoxy resin filled with different carbonaceous nanostructures. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
114	Morphological and electrical properties of epoxy-based composites reinforced with exfoliated graphite. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
115	Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , 2018, 233, 00022.	0.1	0
116	Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , 2018, 233, 00023.	0.1	0
117	Enhanced Durability of Graphene-Based Epoxy Films. <i>Key Engineering Materials</i> , 2019, 813, 279-284.	0.4	0
118	New Aircraft Anti/de-Icing Technologies. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1024, 012012.	0.3	0
119	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
120	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). <i>Lecture Notes in Electrical Engineering</i> , 2020, , 375-387.	0.3	0