

Marialuigia Raimondo

List of Publications by Year in descending order

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75
papers

2,433
citations

136885

32
h-index

206029

48
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75
all docs

75
docs citations

75
times ranked

2032
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	Self-healing epoxy nanocomposites via reversible hydrogen bonding. Composites Part B: Engineering, 2019, 157, 1-13.	5.9	103
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	Nanofilled epoxy adhesive for structural aeronautic materials. Composites Part B: Engineering, 2014, 61, 73-83.	5.9	85
7	Effect of incorporation of POSS compounds and phosphorous hardeners on thermal and fire resistance of nanofilled aeronautic resins. RSC Advances, 2015, 5, 10974-10986.	1.7	72
8	Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. Nanotechnology, 2017, 28, 094001.	1.3	72
9	Optimization of graphene-based materials outperforming host epoxy matrices. RSC Advances, 2015, 5, 36969-36978.	1.7	71
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	Effective formulation and processing of nanofilled carbon fiber reinforced composites. RSC Advances, 2015, 5, 6033-6042.	1.7	62
13	Correlation between electrical conductivity and manufacturing processes of nanofilled carbon fiber reinforced composites. Composites Part B: Engineering, 2015, 80, 7-14.	5.9	60
14	Development of self-healing multifunctional materials. Composites Part B: Engineering, 2017, 128, 30-38.	5.9	58
15	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. Polymers, 2019, 11, 903.	2.0	58
16	Use of Hoveyda's Grubbs' second generation catalyst in self-healing epoxy mixtures. Composites Part B: Engineering, 2011, 42, 296-301.	5.9	55
17	Self-healing materials for structural applications. Polymer Engineering and Science, 2014, 54, 777-784.	1.5	52
18	Morphological, rheological and electrical properties of composites filled with carbon nanotubes functionalized with 1-pyrenebutyric acid. Composites Part B: Engineering, 2018, 147, 12-21.	5.9	51

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19	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
20	Influence of carbon nanofillers on the curing kinetics of epoxy-amine resin. <i>RSC Advances</i> , 2015, 5, 90437-90450.	1.7	49
21	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
22	Nanometric Dispersion of a Mg/Al Layered Double Hydroxide into a Chemically Modified Polycaprolactone. <i>Biomacromolecules</i> , 2007, 8, 773-779.	2.6	45
23	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
24	Relationships between nanofiller morphology and viscoelastic properties in CNF/epoxy resins. <i>Polymer Composites</i> , 2015, 36, 1152-1160.	2.3	44
25	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
26	Processing, thermal stability and morphology of chiral sensing syndiotactic polystyrene films. <i>Journal of Materials Chemistry</i> , 2008, 18, 567-572.	6.7	41
27	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
28	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
29	Healing efficiency of epoxy-based materials for structural applications. <i>Polymer Composites</i> , 2013, 34, 1525-1532.	2.3	37
30	Healing agent for the activation of self-healing function at low temperature. <i>Advanced Composite Materials</i> , 2015, 24, 519-529.	1.0	35
31	Self-repairing CFRPs targeted towards structural aerospace applications. <i>International Journal of Structural Integrity</i> , 2016, 7, 656-670.	1.8	34
32	Transport and field emission properties of buckypapers obtained from aligned carbon nanotubes. <i>Journal of Materials Science</i> , 2017, 52, 6459-6468.	1.7	34
33	Synthesis of ruthenium catalysts functionalized graphene oxide for self-healing applications. <i>Polymer</i> , 2015, 69, 330-342.	1.8	33
34	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
35	The effect of filler aspect ratio on the electromagnetic properties of carbon-nanofibers reinforced composites. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	23
36	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

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37	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
38	Influence of multiwall carbon nanotubes on morphological and structural changes during UV irradiation of syndiotactic polypropylene films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 963-975.	2.4	20
39	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
40	Eco-friendly polymer nanocomposites designed for self-healing applications. <i>Polymer</i> , 2021, 223, 123718.	1.8	18
41	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. <i>Polymers</i> , 2019, 11, 1865.	2.0	17
42	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
43	Flexible eco-friendly multilayer film heaters. <i>Composites Part B: Engineering</i> , 2021, 224, 109208.	5.9	16
44	Influence of nanofiller morphology on the viscoelastic properties of CNF/epoxy resins. <i>AIP Conference Proceedings</i> , 2014, . .	0.3	15
45	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , 2021, 34, 243-249.	0.9	14
46	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
47	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
48	A critical assessment of multifunctional polymers with regard to their potential use in structural applications. <i>Composites Part B: Engineering</i> , 2019, 157, 150-162.	5.9	13
49	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
50	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
51	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
52	Tunneling Atomic Force Microscopy Analysis of Supramolecular Self-Responsive Nanocomposites. <i>Polymers</i> , 2021, 13, 1401.	2.0	11
53	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
54	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

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55	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
56	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites. , 2012, , .		9
57	Dynamic Mechanical Properties of Structural Self-Healing Epoxy Resins. <i>Applied Mechanics and Materials</i> , 0, 62, 95-105.	0.2	8
58	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
59	Design of self-healing biodegradable polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5463-5472.	2.0	7
60	Design of self-healing catalysts for aircraft application. <i>International Journal of Structural Integrity</i> , 2018, 9, 723-736.	1.8	6
61	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
62	Morphology and Elasticity of Oriented Syndiotactic Polypropylene from Solvent Cast Films. <i>Crystal Growth and Design</i> , 2006, 6, 1703-1710.	1.4	4
63	Enhanced electrical properties of carbon fiber reinforced composites obtained by an effective infusion process. , 2014, , .		4
64	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
65	Rheological and morphological properties of graphene-epoxy nanocomposites. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
66	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. <i>MATEC Web of Conferences</i> , 2018, 233, 00021.	0.1	3
67	Morphological and electrical characterization of epoxy resin filled with exfoliated graphite. , 2015, , .		1
68	Effect of functionalized carbon nanofillers on the rheological behavior of structural epoxy resins. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
69	Electrical behavior at nanometer scale of functionalized graphene-based structural resins. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	1
70	Self-Healing Mechanisms in Multifunctional Structural Materials. , 2020, , 277-302.		1
71	Impact of the inclusion of hydrotalcite on the morphological and electrical characteristics of an epoxy-based CNT nanocomposite. , 2012, , .		0
72	Temperature effects on the electrical properties of multiphase polymer composites. , 2014, , .		0

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73	Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). MATEC Web of Conferences, 2018, 233, 00022.	0.1	0
74	Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). MATEC Web of Conferences, 2018, 233, 00023.	0.1	0
75	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). Lecture Notes in Electrical Engineering, 2020, , 375-387.	0.3	0