

# Mauro Giorcelli

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

1,966  
citations

236612

25  
h-index

288905

40  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement in electromagnetic interference shielding effectiveness of cement composites using carbonaceous nano/micro inerts. <i>Construction and Building Materials</i> , 2015, 85, 208-216.	3.2	109
2	Biochar as a cheap and environmental friendly filler able to improve polymer mechanical properties. <i>Biomass and Bioenergy</i> , 2019, 120, 219-223.	2.9	86
3	A Review of Non-Soil Biochar Applications. <i>Materials</i> , 2020, 13, 261.	1.3	79
4	Low-Cost Carbon Fillers to Improve Mechanical Properties and Conductivity of Epoxy Composites. <i>Polymers</i> , 2017, 9, 642.	2.0	74
5	Electrical conductivity of wood biochar monoliths and its dependence on pyrolysis temperature. <i>Biochar</i> , 2020, 2, 369-378.	6.2	71
6	A Review on Recent Advancements of Graphene and Graphene-Related Materials in Biological Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 614.	1.3	68
7	Analysis of biochar with different pyrolysis temperatures used as filler in epoxy resin composites. <i>Biomass and Bioenergy</i> , 2019, 122, 466-471.	2.9	65
8	Development of Coffee Biochar Filler for the Production of Electrical Conductive Reinforced Plastic. <i>Polymers</i> , 2019, 11, 1916.	2.0	61
9	Comparison of two different carbon nanotube-based surfaces with respect to potassium ferricyanide electrochemistry. <i>Surface Science</i> , 2012, 606, 156-160.	0.8	60
10	ANALYSIS OF MICROWAVE ABSORBING PROPERTIES OF EPOXY MWCNT COMPOSITES. <i>Progress in Electromagnetics Research Letters</i> , 2014, 44, 63-69.	0.4	57
11	An analysis of carbon nanotube structure wettability before and after oxidation treatment. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 474206.	0.7	50
12	Carbon nanotube/polymer nanocomposites: A study on mechanical integrity through nanoindentation. <i>Polymer Composites</i> , 2015, 36, 1432-1446.	2.3	50
13	Introducing the Novel Mixed Gaussian-Lorentzian Lineshape in the Analysis of the Raman Signal of Biochar. <i>Nanomaterials</i> , 2020, 10, 1748.	1.9	49
14	Modification and characterization of carbon black with mercaptopropyltrimethoxysilane. <i>Applied Surface Science</i> , 2013, 286, 142-148.	3.1	47
15	Optimization of a thermal-CVD system for carbon nanotube growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 16-20.	1.3	45
16	Influence of Commercial Biochar Fillers on Brittleness/Ductility of Epoxy Resin Composites. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3109.	1.3	44
17	Potential natural polymer-based nanofibres for the development of facemasks in countering viral outbreaks. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50658.	1.3	41
18	Modification of MWNTs obtained by thermal-CVD. <i>Diamond and Related Materials</i> , 2007, 16, 1183-1187.	1.8	37

#	ARTICLE	IF	CITATIONS
19	Improving macroscopic physical and mechanical properties of thick layers of aligned multiwall carbon nanotubes by annealing treatment. <i>Diamond and Related Materials</i> , 2008, 17, 542-547.	1.8	36
20	Study of carbon nanotubes based Polydimethylsiloxane composite films. <i>Journal of Physics: Conference Series</i> , 2013, 439, 012010.	0.3	33
21	Multi-Walled Carbon Nanotubes Composites for Microwave Absorbing Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 851.	1.3	33
22	Photocatalytic discoloration of methyl orange dye by $\text{Bi}_2\text{O}_3$ thin films. <i>Thin Solid Films</i> , 2016, 612, 72-81.	0.8	32
23	Macroscopic growth of carbon nanotube mats and their mechanical properties. <i>Carbon</i> , 2007, 45, 1133-1136.	5.4	30
24	Influence of pyrolytic thermal history on olive pruning biochar and related epoxy composites mechanical properties. <i>Journal of Composite Materials</i> , 2020, 54, 1863-1873.	1.2	30
25	High-Temperature Annealed Biochar as a Conductive Filler for the Production of Piezoresistive Materials for Energy Conversion Application. <i>ACS Applied Electronic Materials</i> , 2021, 3, 838-844.	2.0	26
26	High Frequency Electromagnetic Shielding by Biochar-Based Composites. <i>Nanomaterials</i> , 2021, 11, 2383.	1.9	25
27	Nanomechanical and tribological properties of carbon nanotube/polyvinyl butyral composites. <i>Polymer Composites</i> , 2013, 34, 1950-1960.	2.3	24
28	Electrical and Microwave Characterization of Thermal Annealed Sewage Sludge Derived Biochar Composites. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1334.	1.3	24
29	Development of Pressure-Responsive PolyPropylene and Biochar-Based Materials. <i>Micromachines</i> , 2020, 11, 339.	1.4	24
30	Tuning the microwave electromagnetic properties of biochar-based composites by annealing. <i>Carbon Trends</i> , 2021, 4, 100062.	1.4	24
31	Fluid dynamic analysis of gas flow in a thermal-CVD system designed for growth of carbon nanotubes. <i>Journal of Crystal Growth</i> , 2008, 310, 477-483.	0.7	23
32	Biochars as Innovative Humidity Sensing Materials. <i>Chemosensors</i> , 2017, 5, 35.	1.8	23
33	Effect of incorporation of microstructured carbonized cellulose on surface and mechanical properties of epoxy composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48896.	1.3	23
34	Comparing sensitivities of differently oriented multi-walled carbon nanotubes integrated on silicon wafer for electrochemical biosensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 327-333.	4.0	21
35	Mimicking water striders' legs superhydrophobicity and buoyancy with cabbage leaves and nanotube carpets. <i>Journal of Materials Research</i> , 2013, 28, 976-983.	1.2	21
36	Analysis of MWCNT/epoxy composites at microwave frequency: reproducibility investigation. <i>Nanoscale Research Letters</i> , 2014, 9, 168.	3.1	20

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37	A Review on the Use of Biochar Derived Carbon Quantum Dots Production for Sensing Applications. <i>Chemosensors</i> , 2022, 10, 117.	1.8	20
38	Thermal behavior of thermoplastic polymer nanocomposites containing graphene nanoplatelets. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	18
39	A Review of Bio-Oil Production through Microwave-Assisted Pyrolysis. <i>Processes</i> , 2021, 9, 561.	1.3	18
40	Preparation of polymer-based composite with magnetic anisotropy by oriented carbon nanotube dispersion. <i>Diamond and Related Materials</i> , 2008, 17, 1590-1595.	1.8	17
41	Shape tunability of carbonized cellulose nanocrystals. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	17
42	Study of CNTs and nanographite grown by thermal CVD using different precursors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1310-1313.	1.5	16
43	Graphite-Si-SiC ceramics produced by microwave assisted reactive melt infiltration. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2232-2243.	2.8	16
44	Investigation of epoxy resin/multiwalled carbon nanotube nanocomposite behavior at low frequency. <i>Journal of Materials Research</i> , 2015, 30, 101-107.	1.2	14
45	A novel approach to obtain conductive tracks on PP/MWCNT nanocomposites by laser printing. <i>RSC Advances</i> , 2016, 6, 28522-28531.	1.7	14
46	Multi-Walled Carbon Nanotube thin film loading for tuning microstrip patch antennas. , 2016, , .		13
47	Carbon Nanostructures for Actuators: An Overview of Recent Developments. <i>Actuators</i> , 2019, 8, 46.	1.2	13
48	Hydrogen Adsorption in Several Types of Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3860-3866.	0.9	12
49	Human Plasma Protein Adsorption on Carbon-Based Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3785-3791.	0.9	11
50	Microwave absorption properties in epoxy resin Multi Walled Carbon Nanotubes composites. , 2013, , .		11
51	High-Temperature Annealing Effects on Multiwalled Carbon Nanotubes: Electronic Structure, Field Emission and Magnetic Behaviors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6799-805.	0.9	10
52	Thermal and Electronic Properties of Macroscopic Multi-Walled Carbon Nanotubes Blocks. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3828-3833.	0.9	10
53	High coercivity magnetic multi-wall carbon nanotubes for low-dimensional high-density magnetic recording media. <i>Diamond and Related Materials</i> , 2010, 19, 553-556.	1.8	10
54	Pressure-Responsive Conductive Poly(vinyl alcohol) Composites Containing Waste Cotton Fibers Biochar. <i>Micromachines</i> , 2022, 13, 125.	1.4	10

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55	Hydrogen Adsorption in Several Types of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 6806-12.	0.9	9
56	Electrical Properties of CNT-Based Polymeric Matrix Nanocomposites. , 2011, , .		9
57	Microwave characterization of polymer composite based on Biochar: A comparison of composite behaviour for Biochar and MWCNTs. , 2016, , .		9
58	Comparative Physical-Mechanical Properties Assessment of Tailored Surface-Treated Carbon Fibres. Materials, 2020, 13, 3136.	1.3	9
59	Alignments of Carbon Nanotubes in Polymer Matrix: A Raman Perspective. International Journal of Polymer Analysis and Characterization, 2012, 17, 534-539.	0.9	8
60	Innovative Biochar-Based Composite Fibres from Recycled Material. Materials, 2021, 14, 5304.	1.3	8
61	Growth of vertically aligned multiwall carbon nanotubes columns. Journal of Physics: Conference Series, 2013, 439, 012008.	0.3	7
62	Microwave characterization of graphene films for sensor applications. , 2017, , .		7
63	Extensive growth of MWCNTs on copper substrates using various diffusion barrier layers. Diamond and Related Materials, 2018, 82, 124-131.	1.8	7
64	Gas Chromatography Study of Reagent Degradation During Chemical Vapor Deposition of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 3593-3598.	0.9	6
65	Improving the signal-to-noise ratio of an ECL-based sensor using ad hoc carbon nanotube electrodes. Journal of Micromechanics and Microengineering, 2012, 22, 074010.	1.5	6
66	Biochar and carbon nanotubes as fillers in polymers: A comparison. , 2017, , .		6
67	Carbon fibre functionalization by plasma treatment for adhesion enhancement on polymers. AIP Conference Proceedings, 2018, , .	0.3	6
68	Biochar-polymer composites and thin films: Characterizations and applications. , 2016, , .		5
69	Convective Heat Transfer Enhancement for Electronic Device Applications Using Patterned MWCNTs Structures. Heat Transfer Engineering, 2016, 37, 783-790.	1.2	5
70	Facile functionalization by $\pi$ -stacking of macroscopic substrates made of vertically aligned carbon nanotubes: Tracing reactive groups by electrochemiluminescence. Electrochimica Acta, 2011, 56, 9269-9276.	2.6	4
71	Silicon carbide hollow cylinders using carbon nanotubes structures as template. Materials Letters, 2015, 151, 12-15.	1.3	4
72	THE EFFECT OF CARBON NANOTUBES CONCENTRATION ON COMPLEX PERMITTIVITY OF NANOCOMPOSITES. Progress in Electromagnetics Research M, 2017, 55, 203-209.	0.5	4

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73	Graphene and MWCNT Printed Films: Preparation and RF Electrical Properties Study. Journal of Nanomaterials, 2019, 2019, 1-9.	1.5	4
74	Carbon Nanotubes With Different Orientations for Electrochemical Biodevices. IEEE Sensors Journal, 2012, 12, 3356-3362.	2.4	3
75	RF characterization of polymer multi-walled carbon nanotube composites. , 2014, , .		3
76	Design of a graphene-loaded slotted ring resonator for sensor applications. , 2017, , .		3
77	Thermal CVD Growth of Carbon Nanotubes Thick Layers. Advances in Science and Technology, 2006, 48, 37.	0.2	2
78	Carbon nanotube electrodes for electrochemiluminescence biosensors. Procedia Engineering, 2010, 5, 808-811.	1.2	2
79	Comparing the enhanced sensing interfaces of differently oriented carbon nanotubes onto silicon for bio-chip applications. , 2011, , .		2
80	Thermal treatments for biochar and their electrical characterization in epoxy resin composites. AIP Conference Proceedings, 2018, , .	0.3	2
81	X-ray Absorption and Magnetic Circular Dichroism in CVD Grown Carbon Nanotubes. Materials, 2019, 12, 1073.	1.3	2
82	Towards Traditional Carbon Fillers: Biochar-Based Reinforced Plastic. , 0, , .		2
83	Mechanical Properties, Surface Assessment, and Structural Analysis of Functionalized CFRPs after Accelerated Weathering. Polymers, 2021, 13, 4092.	2.0	1
84	Study of the Electrical Characteristics of the CNT/SiC Interface. Materials Science Forum, 2009, 615-617, 231-234.	0.3	0
85	Carbon nanotube electrodes for electrochemiluminescence biosensors. , 2010, , .		0
86	Carbon nanotube electrodes for electrochemiluminescence biosensors. , 2010, 2010, 2722-5.		0
87	Comparative analysis of MWCNTs nanocomposites at microwave frequency. , 2015, , .		0
88	Analysis and modeling of epoxy/MWCNT composites. , 2015, , .		0
89	Microwave behaviour comparison between different carbon based materials in epoxy resin composites. AIP Conference Proceedings, 2016, , .	0.3	0
90	Thermal-CVD System Designed for Growth of Carbon Nanotubes. , 2006, , .		0

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91	Enhancement and Evaluation of Interfacial Adhesion between Active Screen Plasma Surface-Functionalised Carbon Fibres and the Epoxy Substrate. <i>Polymers</i> , 2022, 14, 824.	2.0	0