

# Luigi Vertuccio

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65  
papers

1,745  
citations

23  
h-index

41  
g-index

70  
ext. papers

2,007  
ext. citations

4.4  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
65	Effect of functionalization on the thermo-mechanical and electrical behavior of multi-wall carbon nanotube/epoxy composites. <i>Carbon</i> , <b>2011</b> , 49, 1919-1930	10.4	204
64	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 2419-2430	10.4	135
63	Nano clay reinforced PCL/starch blends obtained by high energy ball milling. <i>Carbohydrate Polymers</i> , <b>2009</b> , 75, 172-179	10.3	124
62	Development of epoxy mixtures for application in aeronautics and aerospace. <i>RSC Advances</i> , <b>2014</b> , 4, 15474-15488	3.7	108
61	The role of carbon nanofiber defects on the electrical and mechanical properties of CNF-based resins. <i>Nanotechnology</i> , <b>2013</b> , 24, 305704	3.4	77
60	Epoxy/MWCNT Composite as Temperature Sensor and Electrical Heating Element. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 688-693	2.6	70
59	Strain and damage monitoring in carbon-nanotube-based composite under cyclic strain. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 71, 9-16	8.4	66
58	Optimization of graphene-based materials outperforming host epoxy matrices. <i>RSC Advances</i> , <b>2015</b> , 5, 36969-36978	3.7	61
57	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> , <b>2018</b> , 145, 90-99	10	59
56	Effective formulation and processing of nanofilled carbon fiber reinforced composites. <i>RSC Advances</i> , <b>2015</b> , 5, 6033-6042	3.7	58
55	Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. <i>Nanotechnology</i> , <b>2017</b> , 28, 094001	3.4	57
54	Development of self-healing multifunctional materials. <i>Composites Part B: Engineering</i> , <b>2017</b> , 128, 30-38	10	48
53	Cure behavior and physical properties of epoxy resin-filled with multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2686-93	1.3	44
52	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. <i>Polymers</i> , <b>2019</b> , 11,	4.5	38
51	Influence of carbon nanofillers on the curing kinetics of epoxy-amine resin. <i>RSC Advances</i> , <b>2015</b> , 5, 90437-90450	3.8	38
50	Electrical conductivity of carbon nanofiber reinforced resins: Potentiality of Tunneling Atomic Force Microscopy (TUNA) technique. <i>Composites Part B: Engineering</i> , <b>2018</b> , 143, 148-160	10	35
49	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> , <b>2012</b> , 31, 205-218	1.9	34

48	Improvement of the electrical conductivity in multiphase epoxy-based MWCNT nanocomposites by means of an optimized clay content. <i>Composites Science and Technology</i> , <b>2013</b> , 89, 69-76	8.6	30
47	Toughening of Epoxy Adhesives by Combined Interaction of Carbon Nanotubes and Silsesquioxanes. <i>Materials</i> , <b>2017</b> , 10,	3.5	27
46	Antimicrobial Membranes of Bio-Based PA 11 and HNTs Filled with Lysozyme Obtained by an Electrospinning Process. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	26
45	Nano-Charged Polypropylene Application: Realistic Perspectives for Enhancing Durability. <i>Materials</i> , <b>2017</b> , 10,	3.5	26
44	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> , <b>2020</b> , 31, 225708	3.4	23
43	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> , <b>2017</b> , 54, 234-251	6.3	23
42	Active coating for storage of Mozzarella cheese packaged under thermal abuse. <i>Food Control</i> , <b>2016</b> , 64, 10-16	6.2	22
41	Experimental evaluation and modeling of thermal conductivity of tetrafunctional epoxy resin containing different carbon nanostructures. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 779-786	2.3	21
40	Green pesticides based on cinnamate anion incorporated in layered double hydroxides and dispersed in pectin matrix. <i>Carbohydrate Polymers</i> , <b>2019</b> , 209, 356-362	10.3	21
39	Evaluation of zein/halloysite nano-containers as reservoirs of active molecules for packaging applications: Preparation and analysis of physical properties. <i>Journal of Cereal Science</i> , <b>2016</b> , 70, 66-71	3.8	20
38	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	17
37	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> , <b>2019</b> , 12,	3.5	15
36	Behavior of epoxy composite resins in environments at high moisture content. <i>Journal of Polymer Research</i> , <b>2013</b> , 20, 1	2.7	15
35	Thermal conductivity of epoxy resins filled with MWCNT and hydrotalcite clay: Experimental data and theoretical predictive modeling. <i>Polymer Composites</i> , <b>2015</b> , 36, 1118-1123	3	15
34	Multi-functional nanotechnology integration for aeronautical structures performance enhancement. <i>International Journal of Structural Integrity</i> , <b>2018</b> , 9, 737-752	1	15
33	Multifunctional Performance of a Nano-Modified Fiber Reinforced Composite Aeronautical Panel. <i>Materials</i> , <b>2019</b> , 12,	3.5	14
32	Influence of multi-walled carbon nanotubes on the $\beta$ form crystallization of syndiotactic polystyrene at low temperature. <i>EXPRESS Polymer Letters</i> , <b>2010</b> , 4, 339-345	3.4	14
31	Low-Voltage Icing Protection Film for Automotive and Aeronautical Industries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	14

30	Active packaging for table grapes: Evaluation of antimicrobial performances of packaging for shelf life of the grapes under thermal stress. <i>Food Packaging and Shelf Life</i> , <b>2020</b> , 25, 100545	8.2	14
29	Carbon-Based Aeronautical Epoxy Nanocomposites: Effectiveness of Atomic Force Microscopy (AFM) in Investigating the Dispersion of Different Carbonaceous Nanoparticles. <i>Polymers</i> , <b>2019</b> , 11,	4.5	12
28	Correlations between microstructural characterization and thermal properties of well defined poly(Ecaprolactone) samples by ring opening polymerization with neutral and cationic bis(2,4,6-triisopropylphenyl)tin(IV) compounds. <i>Reactive and Functional Polymers</i> , <b>2010</b> , 70, 151-158	4.6	11
27	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites <b>2012</b> ,		9
26	Simulation of self-heating process on the nanoscale: a multiscale approach for molecular models of nanocomposite materials. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 3164-3180	5.1	8
25	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
24	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 243-249	1.4	8
23	Development of multifunctional carbon fiber reinforced composites (CFRCs) - Manufacturing process <b>2014</b> ,		6
22	Design of Multifunctional Composites: New Strategy to Save Energy and Improve Mechanical Performance. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
21	Eco-friendly polymer nanocomposites designed for self-healing applications. <i>Polymer</i> , <b>2021</b> , 223, 123718,	5.9	6
20	Analysis of the Effects of Hydrotalcite Inclusion on the Temperature-Sensing Properties of CNT-Epoxy Nanocomposites. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 7977-7985	4	6
19	PET and Active Coating Based on a LDH Nanofiller Hosting p-Hydroxybenzoate and Food-Grade Zeolites: Evaluation of Antimicrobial Activity of Packaging and Shelf Life of Red Meat. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	6
18	Piezoresistive strain sensing of carbon nanotubes-based composite skin for aeronautical morphing structures <b>2018</b> ,		4
17	Damping assessment of new multifunctional epoxy resin for aerospace structures. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 180-183	1.4	4
16	Design of self-healing catalysts for aircraft application. <i>International Journal of Structural Integrity</i> , <b>2018</b> , 9, 723-736	1	4
15	Humidity sensing of an epoxy/MWCNT composite by electrical conductivity measurements <b>2013</b> ,		3
14	Dynamic performance of self-sensing epoxy resin for aerospace structures <b>2018</b> ,		2
13	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation <b>2011</b> ,		2

12	Self-Sensing Nanocomposites for Structural Applications: Choice Criteria. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
11	Electrical properties of multiphase composites based on carbon nanotubes and an optimized clay content <b>2016</b> ,		2
10	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. <i>MATEC Web of Conferences</i> , <b>2018</b> , 233, 00021	0.3	2
9	Resistive Response of Carbon Nanotube-Based Composites Subjected to Water Aging. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
8	Thermal conductivity of epoxy nanocomposites filled with MWCNT and hydrotalcite clay: A preliminary study <b>2014</b> ,		1
7	A Food-Grade Resin with LDH $\beta$ alicylate to Extend Mozzarella Cheese Shelf Life. <i>Processes</i> , <b>2021</b> , 9, 884	2.9	1
6	Graphene/epoxy resins: Rheological behavior and morphological analysis by Atomic Force Microscopy (AFM). <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 160-163	1.4	1
5	Ice-Prevention and De-Icing Capacity of Epoxy Resin Filled with Hybrid Carbon-Nanostructured Forms: Self-Heating by Joule Effect. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
4	Self-sensing nanocomposites in automotive/aeronautic field. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 125-127	1.4	0
3	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 375-387	0.2	
2	Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , <b>2018</b> , 233, 00022	0.3	
1	Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). <i>MATEC Web of Conferences</i> , <b>2018</b> , 233, 00023	0.3	