Luigi Vertuccio

List of Publications by Year in Descending Order

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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	Self-Sensing Nanocomposites for Structural Applications: Choice Criteria. *Nanomaterials*, **2021**, 11,	5.4	2
64	Eco-friendly polymer nanocomposites designed for self-healing applications. *Polymer*, **2021**, 223, 123718	3.9	6
63	A Food-Grade Resin with LDH-Salicylate to Extend Mozzarella Cheese Shelf Life. *Processes*, **2021**, 9, 884	2.9	1
62	Functional structural nanocomposites with integrated self-healing ability. *Materials Today: Proceedings*, **2021**, 34, 243-249	1.4	8
61	Graphene/epoxy resins: Rheological behavior and morphological analysis by Atomic Force Microscopy (AFM). *Materials Today: Proceedings*, **2021**, 34, 160-163	1.4	1
60	Damping assessment of new multifunctional epoxy resin for aerospace structures. *Materials Today: Proceedings*, **2021**, 34, 180-183	1.4	4
59	Self-sensing nanocomposites in automotive/aeronautic field. *Materials Today: Proceedings*, **2021**, 34, 125-127	1.4	0
58	Resistive Response of Carbon Nanotube-Based Composites Subjected to Water Aging. *Nanomaterials*, **2021**, 11,	5.4	2
57	Ice-Prevention and De-Icing Capacity of Epoxy Resin Filled with Hybrid Carbon-Nanostructured Forms: Self-Heating by Joule Effect. *Nanomaterials*, **2021**, 11,	5.4	1
56	Simulation of self-heating process on the nanoscale: a multiscale approach for molecular models of nanocomposite materials. *Nanoscale Advances*, **2020**, 2, 3164-3180	5.1	8
55	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. *Nanomaterials*, **2020**, 10,	5.4	17
54	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	3.4	23
53	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). *Lecture Notes in Electrical Engineering*, **2020**, 375-387	0.2	
52	Design of Multifunctional Composites: New Strategy to Save Energy and Improve Mechanical Performance. *Nanomaterials*, **2020**, 10,	5.4	6
51	Low-Voltage Icing Protection Film for Automotive and Aeronautical Industries. *Nanomaterials*, **2020**, 10,	5.4	14
50	Active packaging for table grapes: Evaluation of antimicrobial performances of packaging for shelf life of the grapes under thermal stress. *Food Packaging and Shelf Life*, **2020**, 25, 100545	8.2	14
49	Carbon-Based Aeronautical Epoxy Nanocomposites: Effectiveness of Atomic Force Microscopy (AFM) in Investigating the Dispersion of Different Carbonaceous Nanoparticles. *Polymers*, **2019**, 11,	4.5	12

48	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. *Polymers*, **2019**, 11,	4.5	38
47	Multifunctional Performance of a Nano-Modified Fiber Reinforced Composite Aeronautical Panel. *Materials*, **2019**, 12,	3.5	14
46	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,	3.5	15
45	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. *Polymers*, **2019**, 11,	4.5	8
44	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. *Nanomaterials*, **2019**, 9,	5.4	6
43	Green pesticides based on cinnamate anion incorporated in layered double hydroxides and dispersed in pectin matrix. *Carbohydrate Polymers*, **2019**, 209, 356-362	10.3	21
42	Electrical conductivity of carbon nanofiber reinforced resins: Potentiality of Tunneling Atomic Force Microscopy (TUNA) technique. *Composites Part B: Engineering*, **2018**, 143, 148-160	10	35
41	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	10	59
40	Dynamic performance of self-sensing epoxy resin for aerospace structures **2018**,		2
39	Antimicrobial Membranes of Bio-Based PA 11 and HNTs Filled with Lysozyme Obtained by an Electrospinning Process. *Nanomaterials*, **2018**, 8,	5.4	26
38	Piezoresistive strain sensing of carbon nanotubes-based composite skin for aeronautical morphing structures **2018**,		4
37	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. *MATEC Web of Conferences*, **2018**, 233, 00021	0.3	2
36	Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). *MATEC Web of Conferences*, **2018**, 233, 00022	0.3	
35	Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). *MATEC Web of Conferences*, **2018**, 233, 00023	0.3	
34	Design of self-healing catalysts for aircraft application. *International Journal of Structural Integrity*, **2018**, 9, 723-736	1	4
33	Multi-functional nanotechnology integration for aeronautical structures performance enhancement. *International Journal of Structural Integrity*, **2018**, 9, 737-752	1	15
32	Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. *Nanotechnology*, **2017**, 28, 094001	3.4	57
31	Experimental evaluation and modeling of thermal conductivity of tetrafunctional epoxy resin containing different carbon nanostructures. *Polymer Engineering and Science*, **2017**, 57, 779-786	2.3	21

30	Development of self-healing multifunctional materials. *Composites Part B: Engineering*, **2017**, 128, 30-38	10	48
29	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	6.3	23
28	Nano-Charged Polypropylene Application: Realistic Perspectives for Enhancing Durability. *Materials* , **2017**, 10,	3.5	26
27	Toughening of Epoxy Adhesives by Combined Interaction of Carbon Nanotubes and Silsesquioxanes. *Materials*, **2017**, 10,	3.5	27
26	Active coating for storage of Mozzarella cheese packaged under thermal abuse. *Food Control*, **2016**, 64, 10-16	6.2	22
25	Electrical properties of multiphase composites based on carbon nanotubes and an optimized clay content **2016**,		2
24	Evaluation of zein/halloysite nano-containers as reservoirs of active molecules for packaging applications: Preparation and analysis of physical properties. *Journal of Cereal Science*, **2016**, 70, 66-71	3.8	20
23	Analysis of the Effects of Hydrotalcite Inclusion on the Temperature-Sensing Properties of CNT-Epoxy Nanocomposites. *IEEE Sensors Journal*, **2016**, 16, 7977-7985	4	6
22	Strain and damage monitoring in carbon-nanotube-based composite under cyclic strain. *Composites Part A: Applied Science and Manufacturing*, **2015**, 71, 9-16	8.4	66
21	Optimization of graphene-based materials outperforming host epoxy matrices. *RSC Advances*, **2015** , 5, 36969-36978	3.7	61
20	Influence of carbon nanofillers on the curing kinetics of epoxy-amine resin. *RSC Advances*, **2015**, 5, 90437-90450	3.7	38
19	Thermal conductivity of epoxy resins filled with MWCNT and hydrotalcite clay: Experimental data and theoretical predictive modeling. *Polymer Composites*, **2015**, 36, 1118-1123	3	15
18	Effective formulation and processing of nanofilled carbon fiber reinforced composites. *RSC Advances*, **2015**, 5, 6033-6042	3.7	58
17	Development of epoxy mixtures for application in aeronautics and aerospace. *RSC Advances*, **2014**, 4, 15474-15488	3.7	108
16	Thermal conductivity of epoxy nanocomposites filled with MWCNT and hydrotalcite clay: A preliminary study **2014**,		1
15	Development of multifunctional carbon fiber reinforced composites (CFRCs) - Manufacturing process **2014**,		6
14	Behavior of epoxy composite resins in environments at high moisture content. *Journal of Polymer Research*, **2013**, 20, 1	2.7	15
13	Humidity sensing of an epoxy/MWCNT composite by electrical conductivity measurements **2013**,		3

12	The role of carbon nanofiber defects on the electrical and mechanical properties of CNF-based resins. *Nanotechnology*, **2013**, 24, 305704	3.4	77
11	Improvement of the electrical conductivity in multiphase epoxy-based MWCNT nanocomposites by means of an optimized clay content. *Composites Science and Technology*, **2013**, 89, 69-76	8.6	30
10	Comparison of the physical properties of epoxy-based composites filled with different types of carbon nanotubes for aeronautic applications. *Advances in Polymer Technology*, **2012**, 31, 205-218	1.9	34
9	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites **2012**,		9
8	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation **2011**,		2
7	Epoxy/MWCNT Composite as Temperature Sensor and Electrical Heating Element. *IEEE Nanotechnology Magazine*, **2011**, 10, 688-693	2.6	70
6	Effect of functionalization on the thermo-mechanical and electrical behavior of multi-wall carbon nanotube/epoxy composites. *Carbon*, **2011**, 49, 1919-1930	10.4	204
5	Influence of multi-walled carbon nanotubes on the form crystallization of syndiotactic polystyrene at low temperature. *EXPRESS Polymer Letters*, **2010**, 4, 339-345	3.4	14
4	Cure behavior and physical properties of epoxy resin-filled with multiwalled carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 2686-93	1.3	44
3	Correlations between microstructural characterization and thermal properties of well defined poly(caprolactone) samples by ring opening polymerization with neutral and cationic bis(2,4,6-triisopropylphenyl)tin(IV) compounds. *Reactive and Functional Polymers*, **2010**, 70, 151-158	4.6	11
2	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. *Carbon*, **2009**, 47, 2419-2430	10.4	135
1	Nano clay reinforced PCL/starch blends obtained by high energy ball milling. *Carbohydrate Polymers* , **2009**, 75, 172-179	10.3	124