

# Vincenzo Tucci

## 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.

92  
papers

1,844  
citations

25  
h-index

40  
g-index

120  
ext. papers

2,164  
ext. citations

3.4  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
92	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
91	Development of epoxy mixtures for application in aeronautics and aerospace. <i>RSC Advances</i> , <b>2014</b> , 4, 15474-15488	3.7	108
90	Piezoresistive properties of resin reinforced with carbon nanotubes for health-monitoring of aircraft primary structures. <i>Composites Part B: Engineering</i> , <b>2016</b> , 107, 192-202	10	101
89	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
88	Optimization of graphene-based materials outperforming host epoxy matrices. <i>RSC Advances</i> , <b>2015</b> , 5, 36969-36978	3.7	61
87	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
86	Effective formulation and processing of nanofilled carbon fiber reinforced composites. <i>RSC Advances</i> , <b>2015</b> , 5, 6033-6042	3.7	58
85	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
84	Simulation and experimental characterization of polymer/carbon nanotubes composites for strain sensor applications. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 054307	2.5	54
83	Correlation between electrical conductivity and manufacturing processes of nanofilled carbon fiber reinforced composites. <i>Composites Part B: Engineering</i> , <b>2015</b> , 80, 7-14	10	51
82	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
81	Environmental degradation of the electrical and thermal properties of organic insulating materials. <i>Journal of Materials Science</i> , <b>1988</b> , 23, 729-735	4.3	44
80	. <i>IEEE Transactions on Energy Conversion</i> , <b>2004</b> , 19, 7-17	5.4	42
79	Fractal characteristics of electrical discharges: experiments and simulation. <i>Journal Physics D: Applied Physics</i> , <b>1993</b> , 26, 619-627	3	41
78	Rheological and electrical behaviour of nanocarbon/poly(lactic) acid for 3D printing applications. <i>Composites Part B: Engineering</i> , <b>2019</b> , 167, 467-476	10	39
77	Carbon nanotube induced structural and physical property transitions of syndiotactic polypropylene. <i>Nanotechnology</i> , <b>2007</b> , 18, 275703	3.4	39
76	Numerical investigation on the influence factors of the electrical properties of carbon nanotubes-filled composites. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 244301	2.5	38

75	Multiconductor transmission line analysis of steep-front surges in machine windings. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2002</b> , 9, 467-478	2.3	37
74	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
73	Dynamic-mechanical and dielectric characterization of PEEK crystallization. <i>Polymer Engineering and Science</i> , <b>1990</b> , 30, 314-320	2.3	35
72	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
71	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
70	A morphological and structural approach to evaluate the electromagnetic performances of composites based on random networks of carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 154311	2.5	26
69	A Galerkin model to study the field distribution in electrical components employing nonlinear stress grading materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>1999</b> , 6, 765-773	2.3	26
68	. <i>IEEE Transactions on Power Electronics</i> , <b>1994</b> , 9, 487-496	7.2	26
67	Impact of the Variability of the Process Parameters on CNT-Based Nanointerconnects Performances: A Comparison Between SWCNTs Bundles and MWCNT. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 924-933	2.6	25
66	Nanocarbon/Poly(Lactic) Acid for 3D Printing: Effect of Fillers Content on Electromagnetic and Thermal Properties. <i>Materials</i> , <b>2019</b> , 12,	3.5	24
65	Morphological, Rheological and Electromagnetic Properties of Nanocarbon/Poly(lactic) Acid for 3D Printing: Solution Blending vs. Melt Mixing. <i>Materials</i> , <b>2018</b> , 11,	3.5	23
64	. <i>IEEE Transactions on Power Electronics</i> , <b>1995</b> , 10, 640-650	7.2	22
63	The effect of filler aspect ratio on the electromagnetic properties of carbon-nanofibers reinforced composites. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 064302	2.5	21
62	Field distribution in cable terminations from a quasi-static approximation of the Maxwell equations. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>1996</b> , 3, 399-409	2.3	21
61	Robust Design of High-Speed Interconnects Based on an MWCNT. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 799-807	2.6	18
60	EM fields associated with lightning channels: on the effect of tortuosity and branching. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2000</b> , 42, 394-404	2	18
59	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	17
58	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2000</b> , 42, 39-53	2	17

57	nsPEF-induced effects on cell membranes: use of electrophysical model to optimize experimental design. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 1231-1238	2.3	15
56	Numerical study of electrical behaviour in carbon nanotube composites. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2012</b> , 39, 21-27	0.4	15
55	Robust Design of Electromagnetic Systems Based on Interval Taylor Extension Applied to a Multiquadric Performance Function. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1134-1137	2	14
54	Electrical properties of different composite materials for stress relief in HV cable accessories		14
53	. <i>IEEE Nanotechnology Magazine</i> , <b>2013</b> , 12, 696-703	2.6	12
52	Influence of uncertain electrical properties on the conditions for the onset of electroporation in an eukaryotic cell. <i>IEEE Transactions on Nanobioscience</i> , <b>2010</b> , 9, 204-12	3.4	11
51	Modeling Issues and Performance Analysis of High-Speed Interconnects Based on a Bundle of SWCNT. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 1978-1986	2.9	11
50	SIMULATION OF THE BEARING VOLTAGE IN AN INVERTER-FED INDUCTION MOTOR BY A FULL THREE PHASE MULTI CONDUCTOR TRANSMISSION LINE MODEL. <i>Progress in Electromagnetics Research B</i> , <b>2013</b> , 46, 233-250	0.7	10
49	Temperature distribution along an outdoor insulator subjected to different pollution levels. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2000</b> , 7, 416-423	2.3	10
48	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites <b>2012</b> ,		9
47	On the effect of anisotropy in nonlinear composite materials for stress grading applications-a numerical study. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2000</b> , 7, 387-393	2.3	9
46	Dependence of electrical properties of polypropylene isomers on morphology and chain conformation. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 135405	3	8
45	Interval approach to robust design. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2007</b> , 26, 280-292	0.7	8
44	Electrical Current Map and Bulk Conductivity of Carbon Fiber-Reinforced Nanocomposites. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
43	Sensitivity analysis of a Graphene Field-Effect Transistors by means of Design of Experiments. <i>Mathematics and Computers in Simulation</i> , <b>2021</b> , 183, 187-197	3.3	8
42	Flight Path 2050 and ACARE Goals for Maintaining and Extending Industrial Leadership in Aviation: A Map of the Aviation Technology Space.. <i>Sustainability</i> , <b>2019</b> , 11, 2065	3.6	7
41	An accurate evaluation of electric discharge machining bearings currents in inverter-driven induction motors <b>2007</b> ,		7
40	Carbon Nanotubes Bundled Interconnects: Design Hints Based on Frequency- and Time-Domain Crosstalk Analyses. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 2702-2711	2.9	6

39	INTERVAL ANALYSIS IN POWER ELECTRONICS. <i>Journal of Circuits, Systems and Computers</i> , <b>1995</b> , 05, 317-336	6
38	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
37	Effect of thermal and mechanical stresses on the electrical properties of stress grading materials	5
36	Enhanced electrical properties of carbon fiber reinforced composites obtained by an effective infusion process <b>2014</b> ,	4
35	Effect of electric field polarization and temperature on the effective permittivity and conductivity of porous anodic aluminium oxide membranes. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 3338-3346	2.5 4
34	Range Analysis on the Wave Propagation Properties of a Single Wall Carbon Nano Tube <b>2008</b> ,	4
33	MTL model and FEM package for the evaluation of steep-front surges distribution in machine windings	4
32		4
31	The effect of the applied field on the electrical properties of metal polymer composites. <i>Polymer Composites</i> , <b>1988</b> , 9, 139-143	3 4
30	A robust approach to the design of an electromagnetic shield based on pyrolytic carbon. <i>AIP Advances</i> , <b>2016</b> , 6, 075301	1.5 4
29	Fabrication and Charge Transport Modeling of Thin-Film Transistor Based on Carbon Nanotubes Network. <i>IEEE Nanotechnology Magazine</i> , <b>2014</b> , 13, 795-804	2.6 3
28	Effects of thermo-electrical aging on the properties of epoxy-based nanocomposites for motor insulation <b>2015</b> ,	3
27	Electromagnetic properties of Carbon NanoTube/epoxy nanocomposites <b>2009</b> ,	3
26		3
25	Numerical Evaluation of the Effect of Geometric Tolerances on the High-Frequency Performance of Graphene Field-Effect Transistors. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4 3
24	A coarse 3D lattice network modeling electroporation phenomenon in an excitable cell <b>2017</b> ,	2
23	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation <b>2011</b> ,	2
22	Partial discharge diagnostics on a HV superconducting model cable	2

21	Numerical evaluation of the electric field in cable terminations equipped with nonlinear grading materials		2
20	Interpretation and classification of PD in a HV cryogenic cable termination. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2000</b> , 7, 71-77	2.3	2
19	Numerical analysis of performances of stress grading cable accessories made of different anisotropic composite materials		2
18	Comment on "1-dimensional model for nonlinear stress control in cable terminations" [with reply]. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>1999</b> , 6, 267-270	2.3	2
17	Polarization and depolarization currents in carbon-black loaded polyolefins		2
16	Self-Sensing Nanocomposites for Structural Applications: Choice Criteria. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
15	Electrical properties of multiphase composites based on carbon nanotubes and an optimized clay content <b>2016</b> ,		2
14	Evaluation of the bearing voltage and the overshoot phase voltage in PWM inverter-fed by means of a multiconductor transmission line model <b>2014</b> ,		1
13	Feasible industrial fabrication of thin film transistor based on randomized network of single walled carbon nanotubes <b>2013</b> ,		1
12	Morphological and electrical characterization of epoxy resin filled with exfoliated graphite <b>2015</b> ,		1
11	Pore dynamics induced by nsPEFs: A comparison between experimental and theoretical results <b>2012</b> ,		1
10	Reliable bounds for the propagation delay in VLSI nano interconnects based on Multi Wall Carbon Nano Tubes <b>2010</b> ,		1
9	Partial discharge testing on resin insulated voltage transformers. <i>Electrical Engineering</i> , <b>1998</b> , 81, 89-97	1.5	1
8	Characterization of the Active Zone for Leader Propagation in SF6 <b>1994</b> , 105-111		1
7	Performances of dielectric greases for rolling bearings employed in high power induction motors fed by PWM inverters <b>2007</b> ,		0
6	Tolerance analysis of a GFET transistor for aerospace and aeronautical application. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1024, 012005	0.4	0
5	Performances of high-voltage glass insulators subjected to fast transient overvoltages. <i>European Transactions on Electrical Power</i> , <b>2007</b> , 6, 119-124		
4	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	

- 3 Equivalent Electrical Circuit Modeling of CNT-Based Transparent Electrodes. *Applied Sciences (Switzerland)*, **2021**, 11, 3408 2.6
- 2 Nanocomposites conductivity point measurement using Tunneling AFM (TUNA). *MATEC Web of Conferences*, **2018**, 233, 00022 0.3
- 1 Electrical characterization of aeronautical nanocomposites supported by Tunneling AFM (TUNA). *MATEC Web of Conferences*, **2018**, 233, 00023 0.3