

Roberto Guzman de Villoria

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.

63
papers

2,515
citations

25
h-index

50
g-index

68
ext. papers

2,811
ext. citations

6.9
avg, IF

5.04
L-index

#	Paper	IF	Citations
63	Interlaminar and intralaminar reinforcement of composite laminates with aligned carbon nanotubes. <i>Composites Science and Technology</i> , 2010 , 70, 20-28	8.6	295
62	Fabrication and characterization of ultrahigh-volume- fraction aligned carbon nanotube-polymer composites. <i>Advanced Materials</i> , 2008 , 20, 2707-14	24	219
61	Mechanical model to evaluate the effect of the dispersion in nanocomposites. <i>Acta Materialia</i> , 2007 , 55, 3025-3031	8.4	216
60	Exposure to nanoscale particles and fibers during machining of hybrid advanced composites containing carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 231-249	2.3	185
59	Multifunctional properties of high volume fraction aligned carbon nanotube polymer composites with controlled morphology. <i>Composites Science and Technology</i> , 2009 , 69, 2649-2656	8.6	159
58	High Electromechanical Response of Ionic Polymer Actuators with Controlled-Morphology Aligned Carbon Nanotube/Nafion Nanocomposite Electrodes. <i>Advanced Functional Materials</i> , 2010 , 20, 3266-3274	15.6	118
57	Electrical and thermal property enhancement of fiber-reinforced polymer laminate composites through controlled implementation of multi-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2012 , 72, 2009-2015	8.6	104
56	Antimicrobial metal-organic frameworks incorporated into electrospun fibers. <i>Chemical Engineering Journal</i> , 2015 , 262, 189-197	14.7	101
55	Limiting Mechanisms of Mode I Interlaminar Toughening of Composites Reinforced with Aligned Carbon Nanotubes. <i>Journal of Composite Materials</i> , 2009 , 43, 825-841	2.7	96
54	3D mesomechanical analysis of three-axial braided composite materials. <i>Composites Science and Technology</i> , 2006 , 66, 2954-2964	8.6	83
53	Self-powered pressure sensor based on the triboelectric effect and its analysis using dynamic mechanical analysis. <i>Nano Energy</i> , 2018 , 50, 401-409	17.1	77
52	Mechanical properties of SWNT/epoxy composites using two different curing cycles. <i>Composites Part B: Engineering</i> , 2006 , 37, 273-277	10	71
51	Continuous high-yield production of vertically aligned carbon nanotubes on 2D and 3D substrates. <i>ACS Nano</i> , 2011 , 5, 4850-7	16.7	67
50	Computational micromechanics evaluation of the effect of fibre shape on the transverse strength of unidirectional composites: An approach to virtual materials design. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 484-492	8.4	59
49	Full elastic constitutive relation of non-isotropic aligned-CNT/PDMS flexible nanocomposites. <i>Nanoscale</i> , 2013 , 5, 4847-54	7.7	55
48	In-plane strength enhancement of laminated composites via aligned carbon nanotube interlaminar reinforcement. <i>Composites Science and Technology</i> , 2016 , 133, 33-39	8.6	46
47	Influence of the temperature on the properties of the soot formed from C ₂ H ₂ pyrolysis. <i>Chemical Engineering Journal</i> , 2007 , 127, 1-9	14.7	43

46	High-yield growth of vertically aligned carbon nanotubes on a continuously moving substrate. <i>Nanotechnology</i> , 2009 , 20, 405611	3.4	40
45	Mechanical Characterization of Carbon Nanotube Composite Materials. <i>Mechanics of Advanced Materials and Structures</i> , 2005 , 12, 13-19	1.8	40
44	Influence of Different Operation Conditions on Soot Formation from C ₂ H ₂ Pyrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7550-7560	3.9	39
43	Interfacial load transfer in carbon nanotube/ceramic microfiber hybrid polymer composites. <i>Composites Science and Technology</i> , 2012 , 72, 1416-1422	8.6	35
42	Multi-physics damage sensing in nano-engineered structural composites. <i>Nanotechnology</i> , 2011 , 22, 185502	3.0	30
41	Low thermal and high electrical conductivity in hollow glass microspheres covered with carbon nanofiber/polymer composites. <i>Composites Science and Technology</i> , 2017 , 151, 211-218	8.6	29
40	Equivalent circuit modeling of ionomer and ionic polymer conductive network composite actuators containing ionic liquids. <i>Sensors and Actuators A: Physical</i> , 2012 , 181, 70-76	3.9	29
39	Simultaneous synthesis of vertically aligned carbon nanotubes and amorphous carbon thin films on stainless steel. <i>Carbon</i> , 2015 , 82, 31-38	10.4	27
38	Nanocomposite Flexible Pressure Sensor for Biomedical Applications. <i>Procedia Engineering</i> , 2011 , 25, 140-143		25
37	Three-dimensional elastic constitutive relations of aligned carbon nanotube architectures. <i>Journal of Applied Physics</i> , 2013 , 114, 224310	2.5	24
36	How do graphite nanoplates affect the fracture toughness of polypropylene composites?. <i>Composites Science and Technology</i> , 2015 , 111, 9-16	8.6	22
35	Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. <i>Polymers</i> , 2019 , 11,	4.5	18
34	Wear Behavior of Copper/Graphite Composites Processed by Field-Assisted Hot Pressing. <i>Journal of Composites Science</i> , 2019 , 3, 29	3	13
33	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. <i>Composites Science and Technology</i> , 2019 , 169, 151-157	8.6	13
32	Flexible Pressure Sensors: Modeling and Experimental Characterization. <i>Procedia Engineering</i> , 2012 , 47, 1177-1180		12
31	Numerical Analysis of Three-Dimensional Braided Composite by Means of Geometrical Modeling Based on Machine Emulation. <i>Mechanics of Advanced Materials and Structures</i> , 2012 , 19, 207-215	1.8	12
30	Controlled synthesis of nanocrystalline glass-like carbon thin films with tuneable electrical and optical properties. <i>Chemical Engineering Journal</i> , 2016 , 299, 8-14	14.7	10
29	Cell survival and differentiation with nanocrystalline glass-like carbon using substantia nigra dopaminergic cells derived from transgenic mouse embryos. <i>PLoS ONE</i> , 2017 , 12, e0173978	3.7	9

28	Triboelectric nanogenerator as self-powered impact sensor. <i>MATEC Web of Conferences</i> , 2018 , 148, 140053	3	8
27	Microbial colonisation of transparent glass-like carbon films triggered by a reversible radiation-induced hydrophobic to hydrophilic transition. <i>RSC Advances</i> , 2016 , 6, 50278-50287	3.7	8
26	2012 ,		7
25	Enhanced Impact Energy Absorption Characteristics of Sandwich Composites through Tufting. <i>Mechanics of Advanced Materials and Structures</i> , 2015 , 22, 1016-1023	1.8	6
24	Production of graphene nanoplate/polyetheretherketone composites by semi-industrial melt-compounding. <i>Heliyon</i> , 2020 , 6, e03740	3.6	6
23	Graphene Oxide and Reduced Derivatives, as Powder or Film Scaffolds, Differentially Promote Dopaminergic Neuron Differentiation and Survival. <i>Frontiers in Neuroscience</i> , 2020 , 14, 570409	5.1	6
22	The effect of a semi-industrial masterbatch process on the carbon nanotube agglomerates and its influence in the properties of thermoplastic carbon nanotube composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 189-197	2.6	5
21	Tomographic Electrical Resistance-based Damage Sensing in Nano-Engineered Composite Structures 2010 ,		5
20	Aligned Carbon Nanotube Reinforcement of Advanced Composite Ply Interfaces 2008 ,		4
19	Nonhomogeneous morphology and the elastic modulus of aligned carbon nanotube films. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 115023	2	3
18	Effective Stiffness of Wavy Aligned Carbon Nanotubes for Modeling of Controlled-Morphology Polymer Nanocomposites 2012 ,		3
17	Three-Dimensional Constitutive Relations of Aligned Carbon Nanotube Polymer Nanocomposites 2013 ,		3
16	Mechanical Properties of Infusion-Processed Fiber Reinforced Plastics with In Situ-Grown Aligned Carbon Nanotubes 2010 ,		3
15	Methods for Growing Carbon Nanotubes on Carbon Fibers that Preserve Fiber Tensile Strength 2010 ,		3
14	Effect of Manufacturing Route on Mode I Fracture Toughness of Aligned Carbon Nanotube Reinforced Composites 2012 ,		3
13	Aligned Carbon Nanotube Reinforcement of Aerospace Carbon Fiber Composites: Substructural Strength Evaluation for Aerostructure Applications 2012 ,		3
12	Interlaminar Fracture Toughness of a Woven Advanced Composite Reinforced with Aligned Carbon Nanotubes 2009 ,		3
11	Descripci3n de paso superior vehicular de la Autov3a del Cant3brico realizado con materiales compuestos. <i>Materiales De Construcci3n</i> , 2006 , 56,	1.8	3

10	Thermal and Electrical Transport in Hybrid Woven Composites Reinforced with Aligned Carbon Nanotubes 2010 ,		2
9	Flexible sensor for blood pressure measurement. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 512-5	0.9	2
8	Elastic Properties of Aligned Carbon Nanotube Polymer Nanocomposites with Controlled Morphology 2012 ,		2
7	Processing and Characterization of Infusion-Processed Hybrid Composites with In Situ Grown Aligned Carbon Nanotubes 2009 ,		2
6	Conductive filler morphology effect on performance of ionic polymer conductive network composite actuators 2010 ,		1
5	Fabrication and Multifunctional Properties of High Volume Fraction Aligned Carbon Nanotube Polymeric Composites 2008 ,		1
4	Interlaminar and translaminar fracture toughness of Automated Manufactured Bio-inspired CFRP laminates. <i>Composites Science and Technology</i> , 2022 , 219, 109236	8.6	1
3	Substrate adhesion evolves non-monotonically with processing time in millimeter-scale aligned carbon nanotube arrays. <i>Nanoscale</i> , 2021 , 13, 261-271	7.7	1
2	Study of Early Stages in the Growth of Boron-Doped Diamond on Carbon Fibers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000284	1.6	0
1	Ionic Electroactive Polymer Actuators with Aligned Carbon Nanotube/Nafion Nanocomposite Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1304, 1		