

# Roberto Guzman de Villoria

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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 translaminar fracture toughness of Automated Manufactured Bio-inspired CFRP laminates. <i>Composites Science and Technology</i> , <b>2022</b> , 219, 109236	8.6	1
62	Study of Early Stages in the Growth of Boron-Doped Diamond on Carbon Fibers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000284	1.6	0
61	Substrate adhesion evolves non-monotonically with processing time in millimeter-scale aligned carbon nanotube arrays. <i>Nanoscale</i> , <b>2021</b> , 13, 261-271	7.7	1
60	Production of graphene nanoplate/polyetheretherketone composites by semi-industrial melt-compounding. <i>Heliyon</i> , <b>2020</b> , 6, e03740	3.6	6
59	Graphene Oxide and Reduced Derivatives, as Powder or Film Scaffolds, Differentially Promote Dopaminergic Neuron Differentiation and Survival. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 570409	5.1	6
58	Wear Behavior of Copper-Graphite Composites Processed by Field-Assisted Hot Pressing. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 29	3	13
57	Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. <i>Polymers</i> , <b>2019</b> , 11,	4.5	18
56	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. <i>Composites Science and Technology</i> , <b>2019</b> , 169, 151-157	8.6	13
55	Triboelectric nanogenerator as self-powered impact sensor. <i>MATEC Web of Conferences</i> , <b>2018</b> , 148, 140053	5.3	8
54	Self-powered pressure sensor based on the triboelectric effect and its analysis using dynamic mechanical analysis. <i>Nano Energy</i> , <b>2018</b> , 50, 401-409	17.1	77
53	Low thermal and high electrical conductivity in hollow glass microspheres covered with carbon nanofiber/polymer composites. <i>Composites Science and Technology</i> , <b>2017</b> , 151, 211-218	8.6	29
52	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> , <b>2017</b> , 55, 189-197	2.6	5
51	Cell survival and differentiation with nanocrystalline glass-like carbon using substantia nigra dopaminergic cells derived from transgenic mouse embryos. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173978	3.7	9
50	In-plane strength enhancement of laminated composites via aligned carbon nanotube interlaminar reinforcement. <i>Composites Science and Technology</i> , <b>2016</b> , 133, 33-39	8.6	46
49	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> , <b>2016</b> , 91, 484-492	8.4	59
48	Microbial colonisation of transparent glass-like carbon films triggered by a reversible radiation-induced hydrophobic to hydrophilic transition. <i>RSC Advances</i> , <b>2016</b> , 6, 50278-50287	3.7	8
47	Controlled synthesis of nanocrystalline glass-like carbon thin films with tuneable electrical and optical properties. <i>Chemical Engineering Journal</i> , <b>2016</b> , 299, 8-14	14.7	10

46	Enhanced Impact Energy Absorption Characteristics of Sandwich Composites through Tufting. <i>Mechanics of Advanced Materials and Structures</i> , <b>2015</b> , 22, 1016-1023	1.8	6
45	How do graphite nanoplates affect the fracture toughness of polypropylene composites?. <i>Composites Science and Technology</i> , <b>2015</b> , 111, 9-16	8.6	22
44	Antimicrobial metal-organic frameworks incorporated into electrospun fibers. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 189-197	14.7	101
43	Simultaneous synthesis of vertically aligned carbon nanotubes and amorphous carbon thin films on stainless steel. <i>Carbon</i> , <b>2015</b> , 82, 31-38	10.4	27
42	Nonhomogeneous morphology and the elastic modulus of aligned carbon nanotube films. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 115023	2	3
41	Three-Dimensional Constitutive Relations of Aligned Carbon Nanotube Polymer Nanocomposites <b>2013</b> ,		3
40	Full elastic constitutive relation of non-isotropic aligned-CNT/PDMS flexible nanocomposites. <i>Nanoscale</i> , <b>2013</b> , 5, 4847-54	7.7	55
39	Three-dimensional elastic constitutive relations of aligned carbon nanotube architectures. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 224310	2.5	24
38	<b>2012</b> ,		7
37	Effective Stiffness of Wavy Aligned Carbon Nanotubes for Modeling of Controlled-Morphology Polymer Nanocomposites <b>2012</b> ,		3
36	Equivalent circuit modeling of ionomer and ionic polymer conductive network composite actuators containing ionic liquids. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 181, 70-76	3.9	29
35	Interfacial load transfer in carbon nanotube/ceramic microfiber hybrid polymer composites. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1416-1422	8.6	35
34	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> , <b>2012</b> , 72, 2009-2015	8.6	104
33	Flexible Pressure Sensors: Modeling and Experimental Characterization. <i>Procedia Engineering</i> , <b>2012</b> , 47, 1177-1180		12
32	Numerical Analysis of Three-Dimensional Braided Composite by Means of Geometrical Modeling Based on Machine Emulation. <i>Mechanics of Advanced Materials and Structures</i> , <b>2012</b> , 19, 207-215	1.8	12
31	Effect of Manufacturing Route on Mode I Fracture Toughness of Aligned Carbon Nanotube Reinforced Composites <b>2012</b> ,		3
30	Elastic Properties of Aligned Carbon Nanotube Polymer Nanocomposites with Controlled Morphology <b>2012</b> ,		2
29	Aligned Carbon Nanotube Reinforcement of Aerospace Carbon Fiber Composites: Substructural Strength Evaluation for Aerostructure Applications <b>2012</b> ,		3

28	Continuous high-yield production of vertically aligned carbon nanotubes on 2D and 3D substrates. <i>ACS Nano</i> , <b>2011</b> , 5, 4850-7	16.7	67
27	Nanocomposite Flexible Pressure Sensor for Biomedical Applications. <i>Procedia Engineering</i> , <b>2011</b> , 25, 140-143		25
26	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> , <b>2011</b> , 2011, 512-5	0.9	2
25	Ionic Electroactive Polymer Actuators with Aligned Carbon Nanotube/Nafion Nanocomposite Electrodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1304, 1		
24	Multi-physics damage sensing in nano-engineered structural composites. <i>Nanotechnology</i> , <b>2011</b> , 22, 185502	3.0	30
23	Thermal and Electrical Transport in Hybrid Woven Composites Reinforced with Aligned Carbon Nanotubes <b>2010</b> ,		2
22	Mechanical Properties of Infusion-Processed Fiber Reinforced Plastics with In Situ-Grown Aligned Carbon Nanotubes <b>2010</b> ,		3
21	Methods for Growing Carbon Nanotubes on Carbon Fibers that Preserve Fiber Tensile Strength <b>2010</b> ,		3
20	Tomographic Electrical Resistance-based Damage Sensing in Nano-Engineered Composite Structures <b>2010</b> ,		5
19	Conductive filler morphology effect on performance of ionic polymer conductive network composite actuators <b>2010</b> ,		1
18	Interlaminar and intralaminar reinforcement of composite laminates with aligned carbon nanotubes. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 20-28	8.6	295
17	High Electromechanical Response of Ionic Polymer Actuators with Controlled-Morphology Aligned Carbon Nanotube/Nafion Nanocomposite Electrodes. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3266-3271	15.6	118
16	High-yield growth of vertically aligned carbon nanotubes on a continuously moving substrate. <i>Nanotechnology</i> , <b>2009</b> , 20, 405611	3.4	40
15	Exposure to nanoscale particles and fibers during machining of hybrid advanced composites containing carbon nanotubes. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 231-249	2.3	185
14	Multifunctional properties of high volume fraction aligned carbon nanotube polymer composites with controlled morphology. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 2649-2656	8.6	159
13	Limiting Mechanisms of Mode I Interlaminar Toughening of Composites Reinforced with Aligned Carbon Nanotubes. <i>Journal of Composite Materials</i> , <b>2009</b> , 43, 825-841	2.7	96
12	Interlaminar Fracture Toughness of a Woven Advanced Composite Reinforced with Aligned Carbon Nanotubes <b>2009</b> ,		3
11	Processing and Characterization of Infusion-Processed Hybrid Composites with In Situ Grown Aligned Carbon Nanotubes <b>2009</b> ,		2

10	Aligned Carbon Nanotube Reinforcement of Advanced Composite Ply Interfaces <b>2008</b> ,		4
9	Fabrication and Multifunctional Properties of High Volume Fraction Aligned Carbon Nanotube Polymeric Composites <b>2008</b> ,		1
8	Fabrication and characterization of ultrahigh-volume- fraction aligned carbon nanotube-polymer composites. <i>Advanced Materials</i> , <b>2008</b> , 20, 2707-14	24	219
7	Influence of the temperature on the properties of the soot formed from C <sub>2</sub> H <sub>2</sub> pyrolysis. <i>Chemical Engineering Journal</i> , <b>2007</b> , 127, 1-9	14.7	43
6	Mechanical model to evaluate the effect of the dispersion in nanocomposites. <i>Acta Materialia</i> , <b>2007</b> , 55, 3025-3031	8.4	216
5	Influence of Different Operation Conditions on Soot Formation from C <sub>2</sub> H <sub>2</sub> Pyrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 7550-7560	3.9	39
4	Mechanical properties of SWNT/epoxy composites using two different curing cycles. <i>Composites Part B: Engineering</i> , <b>2006</b> , 37, 273-277	10	71
3	3D mesomechanical analysis of three-axial braided composite materials. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2954-2964	8.6	83
2	Descripci3n de paso superior vehicular de la Autov3a del Cant3brico realizado con materiales compuestos. <i>Materiales De Construccion</i> , <b>2006</b> , 56,	1.8	3
1	Mechanical Characterization of Carbon Nanotube Composite Materials. <i>Mechanics of Advanced Materials and Structures</i> , <b>2005</b> , 12, 13-19	1.8	40