

Velasco-Santos Carlos

List of Publications by Year in descending order

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65
papers

2,702
citations

201575

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docs citations

67
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of Thermal and Mechanical Properties of Carbon Nanotube Composites through Chemical Functionalization. <i>Chemistry of Materials</i> , 2003, 15, 4470-4475.	3.2	382
2	Chemical functionalization of carbon nanotubes through an organosilane. <i>Nanotechnology</i> , 2002, 13, 495-498.	1.3	211
3	Dynamicalâ€mechanical and thermal analysis of polymeric composites reinforced with keratin biofibers from chicken feathers. <i>Composites Part B: Engineering</i> , 2007, 38, 405-410.	5.9	149
4	Effects on the Thermo-Mechanical and Crystallinity Properties of Nylon 6,6 Electrospun Fibres Reinforced with One Dimensional (1D) and Two Dimensional (2D) Carbon. <i>Materials</i> , 2013, 6, 3494-3513.	1.3	124
5	Dynamicalâ€mechanical and thermal analysis of carbon nanotubeâ€methyl-ethyl methacrylate nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1423-1428.	1.3	106
6	Carbon Nanotubes Composites: Processing, Grafting and Mechanical and Thermal Properties. <i>Current Nanoscience</i> , 2010, 6, 12-39.	0.7	102
7	Polysaccharide Nanocomposites Reinforced with Graphene Oxide and Keratin-Grafted Graphene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3619-3629.	1.8	101
8	Carbon nanotube-polymer nanocomposites: The role of interfaces. <i>Composite Interfaces</i> , 2005, 11, 567-586.	1.3	93
9	Covalently Bonded Chitosan on Graphene Oxide via Redox Reaction. <i>Materials</i> , 2013, 6, 911-926.	1.3	89
10	All Green Composites from Fully Renewable Biopolymers: Chitosan-Starch Reinforced with Keratin from Feathers. <i>Polymers</i> , 2014, 6, 686-705.	2.0	87
11	Antimicrobial, Optical and Mechanical Properties of Chitosanâ€Starch Films with Natural Extracts. <i>International Journal of Molecular Sciences</i> , 2017, 18, 997.	1.8	81
12	Chitosan-Starch Films with Natural Extracts: Physical, Chemical, Morphological and Thermal Properties. <i>Materials</i> , 2018, 11, 120.	1.3	78
13	Novel Crystalline SiO ₂ Nanoparticles via Annelids Bioprocessing of Agro-Industrial Wastes. <i>Nanoscale Research Letters</i> , 2010, 5, 1408-1417.	3.1	69
14	Influence of the Hybrid Combination of Multiwalled Carbon Nanotubes and Graphene Oxide on Interlaminar Mechanical Properties of Carbon Fiber/Epoxy Laminates. <i>Applied Composite Materials</i> , 2018, 25, 1115-1131.	1.3	62
15	Composites from chicken feathers quill and recycled polypropylene. <i>Journal of Composite Materials</i> , 2015, 49, 275-283.	1.2	54
16	Naturally produced carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 373, 272-276.	1.2	46
17	Adsorption of Phenol from Aqueous Solutions by Carbon Nanomaterials of One and Two Dimensions: Kinetic and Equilibrium Studies. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-14.	1.5	45
18	Mechanical properties evaluation of new composites with protein biofibers reinforcing poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	43

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19	Removal of Hexavalent Chromium from Water by Polyurethane-Keratin Hybrid Membranes. <i>Water, Air, and Soil Pollution</i> , 2011, 218, 557-571.	1.1	42
20	3D printing of PLA composites scaffolds reinforced with keratin and chitosan: Effect of geometry and structure. <i>European Polymer Journal</i> , 2020, 141, 110088.	2.6	42
21	Natural-Synthetic Hybrid Polymers Developed via Electrospinning: The Effect of PET in Chitosan/Starch System. <i>International Journal of Molecular Sciences</i> , 2011, 12, 1908-1920.	1.8	39
22	4-chlorophenol removal from water using graphite and graphene oxides as photocatalysts. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 33.	1.4	38
23	(Chicken feathers keratin)/polyurethane membranes. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 219-228.	1.1	37
24	Chitosan-starch film reinforced with magnetite-decorated carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2014, 615, S505-S510.	2.8	35
25	Carbon Nanotube and Graphene Based Polyamide Electrospun Nanocomposites: A Review. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-16.	1.5	34
26	Improved Performance of an Epoxy Matrix as a Result of Combining Graphene Oxide and Reduced Graphene. <i>International Journal of Polymer Science</i> , 2013, 2013, 1-7.	1.2	32
27	Adsorption and kinetic study of Reactive Red 2 dye onto graphene oxides and graphene quantum dots. <i>Diamond and Related Materials</i> , 2020, 109, 108002.	1.8	30
28	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. <i>FlatChem</i> , 2019, 18, 100131.	2.8	28
29	Synthesis and investigation of PMMA films with homogeneously dispersed multiwalled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2013, 140, 458-464.	2.0	27
30	Influence of Silanization Treatment on Thermomechanical Properties of Multiwalled Carbon Nanotubes: Poly(methylmethacrylate) Nanocomposites. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9.	1.5	26
31	Chitosan-Starch-Keratin Composites: Improving Thermo-Mechanical and Degradation Properties Through Chemical Modification. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2182-2191.	2.4	26
32	Grafting of Multiwalled Carbon Nanotubes with Chicken Feather Keratin. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-9.	1.5	25
33	Non-linear modeling of kinetic and equilibrium data for the adsorption of hexavalent chromium by carbon nanomaterials: Dimension and functionalization. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 912-919.	1.7	25
34	Hydrogen Bonding of Polystyrene Latex Nanospheres to Sidewall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18866-18869.	1.2	24
35	Graphene oxide and reduced graphene oxide modification with polypeptide chains from chicken feather keratin. <i>Journal of Alloys and Compounds</i> , 2015, 643, S137-S143.	2.8	22
36	Photocatalytic Activity in Phenol Removal of Water from Graphite and Graphene Oxides: Effect of Degassing and Chemical Oxidation in the Synthesis Process. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	0.9	19

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37	Effect of seawater ageing on interlaminar fracture toughness of carbon fiber/epoxy composites containing carbon nanofillers. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 1346-1359.	1.6	16
38	Grafting of methyl methacrylate onto natural keratin. <i>E-Polymers</i> , 2003, 3, .	1.3	15
39	Polyurethane-Keratin Membranes: Structural Changes by Isocyanate and pH, and the Repercussion on Cr(VI) Removal. <i>International Journal of Polymer Science</i> , 2013, 2013, 1-12.	1.2	15
40	Structural Characterization of Silica Particles Extracted from Grass <i>Stenotaphrum secundatum</i> : Biotransformation via Annelids. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-7.	1.0	14
41	Comparison as Effective Photocatalyst or Adsorbent of Carbon Materials of One, Two, and Three Dimensions for the Removal of Reactive Red 2 in Water. <i>Environmental Engineering Science</i> , 2015, 32, 872-880.	0.8	14
42	Starch Modified With Chitosan and Reinforced With Feather Keratin Materials Produced by Extrusion Process: An Alternative to Starch Polymers. <i>Starch/Staerke</i> , 2018, 70, 1700295.	1.1	14
43	Multidimensional Nanocomposites of Epoxy Reinforced with 1D and 2D Carbon Nanostructures for Improve Fracture Resistance. <i>Polymers</i> , 2018, 10, 281.	2.0	14
44	One- and two-dimensional carbon nanomaterials as adsorbents of cationic and anionic dyes from aqueous solutions. <i>Carbon Letters</i> , 2019, 29, 155-166.	3.3	13
45	Experimental approximation of the sound absorption coefficient ($\hat{\alpha}$) for 3D printed reentrant auxetic structures of poly lactic acid reinforced with chicken keratin materials. <i>Materials Letters</i> , 2021, 283, 128757.	1.3	12
46	Chitosanâ€“Starch Films Modified with Natural Extracts to Remove Heavy Oil from Water. <i>Water (Switzerland)</i> , 2020, 12, 17.	1.2	11
47	Grapheneâ€“Based Materials Functionalization with Natural Polymeric Biomolecules. , 0, , .		10
48	Effect of Keratin Structures from Chicken Feathers on Expansive Soil Remediation. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-10.	1.0	9
49	1D and 2D oxidized carbon nanomaterials on epoxy matrix: performance of composites over the same processing conditions. <i>Materials Research Express</i> , 2017, 4, 115604.	0.8	9
50	Low Concentrations for Significant Improvements in Thermal and Thermomechanical Properties of Poly(Lactic Acid)â€“Keratin Biocomposites Obtained by Extrusion and 3D Printing. <i>Journal of Natural Fibers</i> , 2022, 19, 1715-1728.	1.7	9
51	Hierarchical Microstructure in Keratin Biofibers. <i>Microscopy and Microanalysis</i> , 2003, 9, 1282-1283.	0.2	8
52	Polymer concretes improved by fiber reinforcement and gamma irradiation. <i>E-Polymers</i> , 2009, 9, .	1.3	7
53	Electrophoretic deposition of carbon nanotubes onto glass fibers for self-sensing relaxation-induced piezoresistivity of monofilament composites. <i>Journal of Materials Science</i> , 2019, 54, 2205-2221.	1.7	7
54	Additive manufacturing of green composites: Poly (lactic acid) reinforced with keratin materials obtained from Angora rabbit hair. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50321.	1.3	6

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55	Nanocellulose Extraction of Pineapple Leaves for Chitosan-starch Nanocomposites. <i>Journal of Natural Fibers</i> , 2022, 19, 3624-3637.	1.7	6
56	Nylon 6,6 electrospun fibres reinforced by amino functionalised 1D and 2D carbon. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 40, 012023.	0.3	4
57	Influence of 1D and 2D Carbon Fillers and Their Functionalisation on Crystallisation and Thermomechanical Properties of Injection Moulded Nylon 6,6 Nanocomposites. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-13.	1.5	4
58	High adsorption of methylene blue from water onto graphenic materials: Effect of degree of graphitization and analysis of kinetic models. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13618.	1.3	4
59	Performance of Graphene Derivatives Produced by Chemical and Physical Methods as Reinforcements in Glass Fiber Composite Laminates. <i>Applied Composite Materials</i> , 2021, 28, 923-949.	1.3	3
60	Study of thermal properties of mullite porous materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1553-1561.	2.0	2
61	Carbon nanotube junctions obtained by pulsed liquid injection chemical vapour deposition. <i>Diamond and Related Materials</i> , 2010, 19, 1052-1057.	1.8	1
62	Effect of Functionalization on the Crystallization Behavior of MWNT-PBT Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	0
63	Effect of the <i>Melicoccus bijugatus</i> leaf and fruit extracts and acidic solvents on the antimicrobial properties of chitosan-starch films. <i>Journal of Applied Microbiology</i> , 2021, 131, 1162-1176.	1.4	0
64	Improvements in the thermomechanical and electrical behavior of hybrid carbon-epoxy nanocomposites. <i>Carbon Trends</i> , 2021, 5, 100126.	1.4	0
65	Design, development, and experimental setup of near-field electrospinning with a sharp electrode: Influence of procedural parameters on the 3D nanofiber structure. <i>Review of Scientific Instruments</i> , 2022, 93, 013906.	0.6	0