Ana L MartÃ-nez HernÃ¡ndez

List of Publications by Year
in descending order

63 papers	2,733 citations	201674 27 h-index	182427 51 g-index
63 all docs	63 docs citations	63 times ranked	3803 citing authors

#	Article	IF	Citations
1	Improvement of Thermal and Mechanical Properties of Carbon Nanotube Composites through Chemical Functionalization. Chemistry of Materials, 2003, 15, 4470-4475.	6.7	382
2	Chemical functionalization of carbon nanotubes through an organosilane. Nanotechnology, 2002, 13, 495-498.	2.6	211
3	Dynamicalâ€“mechanical and thermal analysis of polymeric composites reinforced with keratin biofibers from chicken feathers. Composites Part B: Engineering, 2007, 38, 405-410.	12.0	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. Materials, 2013, 6, 3494-3513.	2.9	124
5	Dynamicalâ€“mechanical and thermal analysis of carbon nanotubeâ€“methyl-ethyl methacrylate nanocomposites. Journal Physics D: Applied Physics, 2003, 36, 1423-1428.	2.8	106
6	Carbon Nanotubes Composites: Processing, Grafting and Mechanical and Thermal Properties. Current Nanoscience, 2010, 6, 12-39.	1.2	102
7	Polysaccharide Nanocomposites Reinforced with Graphene Oxide and Keratin-Grafted Graphene Oxide. Industrial & Engineering Chemistry Research, 2012, 51, 3619-3629.	3.7	101
8	Carbon nanotube-polymer nanocomposites: The role of interfaces. Composite Interfaces, 2005, 11, 567-586.	2.3	93
9	Microstructural characterisation of keratin fibres from chicken feathers. International Journal of Environment and Pollution, 2005, 23, 162.	0.2	92
10	Covalently Bonded Chitosan on Graphene Oxide via Redox Reaction. Materials, 2013, 6, 911-926.	2.9	89
11	All Green Composites from Fully Renewable Biopolymers: Chitosan-Starch Reinforced with Keratin from Feathers. Polymers, 2014, 6, 686-705.	4.5	87
12	Antimicrobial, Optical and Mechanical Properties of Chitosanâ€“Starch Films with Natural Extracts. International Journal of Molecular Sciences, 2017, 18, 997.	4.1	81
13	Chitosan-Starch Films with Natural Extracts: Physical, Chemical, Morphological and Thermal Properties. Materials, 2018, 11, 120.	2.9	78
14	Novel Crystalline SiO2 Nanoparticles via Annelids Bioprocessing of Agro-Industrial Wastes. Nanoscale Research Letters, 2010, 5, 1408-1417.	5.7	69
15	Composites from chicken feathers quill and recycled polypropylene. Journal of Composite Materials, 2015, 49, 275-283.	2.4	54
16	Catalytic activity of palladium nanocubes/multiwalled carbon nanotubes structures for methyl orange dye removal. Catalysis Today, 2017, 282, 168-173.	4.4	49
17	Naturally produced carbon nanotubes. Chemical Physics Letters, 2003, 373, 272-276.	2.6	46
18	Adsorption of Phenol from Aqueous Solutions by Carbon Nanomaterials of One and Two Dimensions: Kinetic and Equilibrium Studies. Journal of Nanomaterials, 2015, 2015, 1-14.	2.7	45

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19	Mechanical properties evaluation of new composites with protein biofibers reinforcing poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overl	3.8	43
20	Removal of Hexavalent Chromium from Water by Polyurethaneâ€“Keratin Hybrid Membranes. Water, Air, and Soil Pollution, 2011, 218, 557-571.	2.4	42
21	Natural-Synthetic Hybrid Polymers Developed via Electrospinning: The Effect of PET in Chitosan/Starch System. International Journal of Molecular Sciences, 2011, 12, 1908-1920.	4.1	39
22	4-chlorophenol removal from water using graphite and graphene oxides as photocatalysts. Journal of Environmental Health Science & Engineering, 2015, 13, 33.	3.0	38
23	(Chicken feathers keratin)/polyurethane membranes. Applied Physics A: Materials Science and Processing, 2011, 104, 219-228.	2.3	37
24	Chitosanâ€“starch film reinforced with magnetite-decorated carbon nanotubes. Journal of Alloys and Compounds, 2014, 615, S505-S510.	5.5	35
25	Carbon Nanotube and Graphene Based Polyamide Electrospun Nanocomposites: A Review. Journal of Nanomaterials, 2016, 2016, 1-16.	2.7	34
26	Improved Performance of an Epoxy Matrix as a Result of Combining Graphene Oxide and Reduced Graphene. International Journal of Polymer Science, 2013, 2013, 1-7.	2.7	32
27	Adsorption and kinetic study of Reactive Red 2 dye onto graphene oxides and graphene quantum dots. Diamond and Related Materials, 2020, 109, 108002.	3.9	30
28	Chemical modification of keratin biofibres by graft polymerisation of methyl methacrylate using redox initiation. Materials Research Innovations, 2008, 12, 184-191.	2.3	28
29	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. FlatChem, 2019, 18, 100131.	5.6	28
30	Influence of Silanization Treatment on Thermomechanical Properties of Multiwalled Carbon Nanotubes: Poly(methylmethacrylate) Nanocomposites. Journal of Nanomaterials, 2011, 2011, 1-9.	2.7	26
31	Chitosanâ€“Starchâ€“Keratin Composites: Improving Thermo-Mechanical and Degradation Properties Through Chemical Modification. Journal of Polymers and the Environment, 2018, 26, 2182-2191.	5.0	26
32	Grafting of Multiwalled Carbon Nanotubes with Chicken Feather Keratin. Journal of Nanomaterials, 2013, 2013, 1-9.	2.7	25
33	Non-linear modeling of kinetic and equilibrium data for the adsorption of hexavalent chromium by carbon nanomaterials: Dimension and functionalization. Chinese Journal of Chemical Engineering, 2019, 27, 912-919.	3.5	25
34	Hydrogen Bonding of Polystyrene Latex Nanospheres to Sidewall Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 18866-18869.	2.6	24
35	Graphene oxide and reduced graphene oxide modification with polypeptide chains from chicken feather keratin. Journal of Alloys and Compounds, 2015, 643, S137-S143.	5.5	22
36	Photocatalytic Activity in Phenol Removal of Water from Graphite and Graphene Oxides: Effect of Degassing and Chemical Oxidation in the Synthesis Process. Journal of Chemistry, 2015, 2015, 1-10.	1.9	19

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37	Grafting of methyl methacrylate onto natural keratin. E-Polymers, 2003, 3, .	3.0	15
38	Polyurethane-Keratin Membranes: Structural Changes by Isocyanate and pH, and the Repercussion on Cr(VI) Removal. International Journal of Polymer Science, 2013, 2013, 1-12.	2.7	15
39	Structural Characterization of Silica Particles Extracted from GrassStenotaphrum secundatum: Biotransformation via Annelids. Advances in Materials Science and Engineering, 2014, 2014, 1-7.	1.8	14
40	Comparison as Effective Photocatalyst or Adsorbent of Carbon Materials of One, Two, and Three Dimensions for the Removal of Reactive Red 2 in Water. Environmental Engineering Science, 2015, 32, 872-880.	1.6	14
41	Starch Modified With Chitosan and Reinforced With Feather Keratin Materials Produced by Extrusion Process: An Alternative to Starch Polymers. Starch/Staerke, 2018, 70, 1700295.	2.1	14
42	Multidimensional Nanocomposites of Epoxy Reinforced with 1D and 2D Carbon Nanostructures for Improve Fracture Resistance. Polymers, 2018, 10, 281.	4.5	14
43	One- and two-dimensional carbon nanomaterials as adsorbents of cationic and anionic dyes from aqueous solutions. Carbon Letters, 2019, 29, 155-166.	5.9	13
44	Experimental approximation of the sound absorption coefficient (âˆ) for 3D printed reentrant auxetic structures of poly lactic acid reinforced with chicken keratin materials. Materials Letters, 2021, 283, 128757.	2.6	12
45	Graphene Materials to Remove Organic Pollutants and Heavy Metals from Water: Photocatalysis and Adsorption. , 0, , .		10
46	Grapheneâ€Based Materials Functionalization with Natural Polymeric Biomolecules. , 0, , .		10
47	Effect of Keratin Structures from Chicken Feathers on Expansive Soil Remediation. Advances in Materials Science and Engineering, 2015, 2015, 1-10.	1.8	9
48	1D and 2D oxidized carbon nanomaterials on epoxy matrix: performance of composites over the same processing conditions. Materials Research Express, 2017, 4, 115604.	1.6	9
49	Low Concentrations for Significant Improvements in Thermal and Thermomechanical Properties of Poly(Lactic Acid)â€“Keratin Biocomposites Obtained by Extrusion and 3D Printing. Journal of Natural Fibers, 2022, 19, 1715-1728.	3.1	9
50	Elimination of Methylene Blue and Reactive Black 5 from Aqueous Solution Using HKUST-1. International Journal of Environmental Science and Development, 2017, 8, 241-246.	0.6	9
51	Influence of corn flour as pore forming agent on porous ceramic material based mullite: Morphology and mechanical properties. Science of Sintering, 2016, 48, 29-39.	1.4	9
52	Polypropylene Fibre Reinforced Polymer Concrete: Effect of Gamma Irradiation. Polymers and Polymer Composites, 2014, 22, 787-792.	1.9	8
53	Polymer concretes improved by fiber reinforcement and gamma irradiation. E-Polymers, 2009, 9, .	3.0	7
54	Additive manufacturing of green composites: Poly (lactic acid) reinforced with keratin materials obtained from Angora rabbit hair. Journal of Applied Polymer Science, 2021, 138, 50321.	2.6	6

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55	Nanocellulose Extraction of Pineapple Leaves for Chitosan-starch Nanocomposites. Journal of Natural Fibers, 2022, 19, 3624-3637.	3.1	6
56	Nylon 6,6 electrospun fibres reinforced by amino functionalised 1D and 2D carbon. IOP Conference Series: Materials Science and Engineering, 2012, 40, 012023.	0.6	4
57	Influence of 1D and 2D Carbon Fillers and Their Functionalisation on Crystallisation and Thermomechanical Properties of Injection Moulded Nylon 6,6 Nanocomposites. Journal of Nanomaterials, 2014, 2014, 1-13.	2.7	4
58	High adsorption of methylene blue from water onto graphenic materials: Effect of degree of graphitization and analysis of kinetic models. Environmental Progress and Sustainable Energy, 2021, 40, e13618.	2.3	4
59	Performance of Graphene Derivatives Produced by Chemical and Physical Methods as Reinforcements in Glass Fiber Composite Laminates. Applied Composite Materials, 2021, 28, 923-949.	2.5	3
60	Evaluation of Graft Copolymerization of Acrylic Monomers Onto Natural Polymers by Means Infrared Spectroscopy. , 2012, , .		2
61	Study of thermal properties of mullite porous materials. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1553-1561.	3.6	2
62	Effect of Functionalization on the Crystallization Behavior of MWNT-PBT Nanocomposites. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
63	Design, development, and experimental setup of near-field electrospinning with a sharp electrode: Influence of procedural parameters on the 3D nanofiber structure. Review of Scientific Instruments, 2022, 93, 013906.	1.3	0