

Juan P Hinestroza

List of Publications by Year in descending order

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96
papers

4,039
citations

117453

34
h-index

123241

61
g-index

114
all docs

114
docs citations

114
times ranked

5917
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnology in Textiles. ACS Nano, 2016, 10, 3042-3068.	7.3	530
2	Metal Nanoparticles on Natural Cellulose Fibers: Electrostatic Assembly and In Situ Synthesis. ACS Applied Materials & Interfaces, 2009, 1, 797-803.	4.0	193
3	Assembly of Metal Nanoparticles on Electrospun Nylon 6 Nanofibers by Control of Interfacial Hydrogen-Bonding Interactions. Chemistry of Materials, 2008, 20, 6627-6632.	3.2	167
4	Non-invasive textile based colorimetric sensor for the simultaneous detection of sweat pH and lactate. Talanta, 2019, 192, 424-430.	2.9	155
5	Antibacterial activity against <i>Escherichia coli</i> of Cu-BTC (MOF-199) metal-organic framework immobilized onto cellulosic fibers. Journal of Applied Polymer Science, 2014, 131, .	1.3	137
6	In situ synthesis of a Cu-BTC metal-organic framework (MOF 199) onto cellulosic fibrous substrates: cotton. Cellulose, 2012, 19, 1771-1779.	2.4	132
7	Deposition of silver nanoparticles on cellulosic fibers via stabilization of carboxymethyl groups. Cellulose, 2012, 19, 411-424.	2.4	132
8	Cotton Fabric Functionalized with a β -Cyclodextrin Polymer Captures Organic Pollutants from Contaminated Air and Water. Chemistry of Materials, 2016, 28, 8340-8346.	3.2	110
9	Atomic Layer Deposition of Conformal Inorganic Nanoscale Coatings on Three-Dimensional Natural Fiber Systems: Effect of Surface Topology on Film Growth Characteristics. Langmuir, 2007, 23, 9844-9849.	1.6	105
10	Viscoelastic (Non-Fickian) Diffusion. Canadian Journal of Chemical Engineering, 2005, 83, 913-929.	0.9	101
11	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. Polymer Engineering and Science, 2009, 49, 2054-2061.	1.5	91
12	Tough cotton. Nature Nanotechnology, 2008, 3, 458-459.	15.6	90
13	Controlled release of nonionic compounds from poly(lactic acid)/cellulose nanocrystal nanocomposite fibers. Journal of Applied Polymer Science, 2013, 127, 79-86.	1.3	90
14	Biocomposite of nanostructured MnO ₂ and fique fibers for efficient dye degradation. Green Chemistry, 2013, 15, 2920.	4.6	87
15	Layer-by-layer deposition of polyelectrolyte nanolayers on natural fibres: cotton. Nanotechnology, 2005, 16, S422-S428.	1.3	86
16	Organic electronics on natural cotton fibres. Organic Electronics, 2011, 12, 2033-2039.	1.4	85
17	Cotton thread-based wearable sensor for non-invasive simultaneous diagnosis of diabetes and kidney failure. Sensors and Actuators B: Chemical, 2020, 321, 128549.	4.0	74
18	Development and characterization of thin polymer films relevant to fiber processing. Thin Solid Films, 2009, 517, 4348-4354.	0.8	59

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19	Adsorption and Association of a Symmetric PEO-PPO-PEO Triblock Copolymer on Polypropylene, Polyethylene, and Cellulose Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2349-2357.	4.0	58
20	Acid-Base Polymeric Foams for the Adsorption of Micro-oil Droplets from Industrial Effluents. <i>Environmental Science & Technology</i> , 2017, 51, 8552-8560.	4.6	57
21	Decoration of Cotton Fibers with a Water-Stable Metal-Organic Framework (UiO-66) for the Decomposition and Enhanced Adsorption of Micropollutants in Water. <i>Bioengineering</i> , 2018, 5, 14.	1.6	54
22	Cellulose meets reticular chemistry: interactions between cellulosic substrates and metal-organic frameworks. <i>Cellulose</i> , 2019, 26, 123-137.	2.4	54
23	Electrospun Nanofibers with Associative Polymer-Surfactant Systems. <i>Macromolecules</i> , 2010, 43, 7650-7656.	2.2	51
24	Manufacturing of twisted continuous PAN nanofiber yarn by electrospinning process. <i>Fibers and Polymers</i> , 2011, 12, 610-615.	1.1	51
25	Effect of poly(ethylene oxide)-silane graft molecular weight on the colloidal properties of iron oxide nanoparticles for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 40-50.	5.0	50
26	One-step growth of isorecticular luminescent metal-organic frameworks on cotton fibers. <i>RSC Advances</i> , 2015, 5, 15198-15204.	1.7	45
27	A panchromatic modification of the light absorption spectra of metal-organic frameworks. <i>Chemical Communications</i> , 2016, 52, 6665-6668.	2.2	44
28	CuBTC metal-organic frameworks enmeshed in polyacrylonitrile fibrous membrane remove methyl parathion from solutions. <i>Fibers and Polymers</i> , 2014, 15, 200-207.	1.1	42
29	Oriented Growth of MnO_2 Nanorods Using Natural Extracts from Grape Stems and Apple Peels. <i>Nanomaterials</i> , 2017, 7, 117.	1.9	42
30	Synthesis of silver nanoparticles using aqueous extracts of <i>Heterotheca inuloides</i> as reducing agent and natural fibers as templates: Agave lechuguilla and silk. <i>Materials Science and Engineering C</i> , 2016, 69, 429-436.	3.8	40
31	Direct measurement of fluid velocity in an electrospinning jet using particle image velocimetry. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	39
32	Associative Polymer Facilitated Electrospinning of Nanofibers. <i>Macromolecules</i> , 2008, 41, 4275-4283.	2.2	39
33	Transparent Ultraviolet (UV)-Shielding Films Made from Waste Hemp Hurd and Polyvinyl Alcohol (PVA). <i>Polymers</i> , 2020, 12, 1190.	2.0	39
34	Effect of surface cationization on the conformal deposition of polyelectrolytes over cotton fibers. <i>Cellulose</i> , 2007, 14, 615-623.	2.4	38
35	Controllable fabrication and properties of polypropylene nanofibers. <i>Polymer Engineering and Science</i> , 2007, 47, 1865-1872.	1.5	36
36	Conformal coating of yarns and wires with electrospun nanofibers. <i>Polymer Engineering and Science</i> , 2012, 52, 1724-1732.	1.5	34

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37	Nanowire-Functionalized Cotton Textiles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2262-2269.	4.0	32
38	Versatile Molding Process for Tough Cellulose Hydrogel Materials. <i>Scientific Reports</i> , 2015, 5, 16266.	1.6	32
39	Boundary Lubrication of PEO-PPO-PEO Triblock Copolymer Physisorbed on Polypropylene, Polyethylene, and Cellulose Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2931-2940.	1.8	31
40	In situ synthesis of gold nanoparticles using fique natural fibers as template. <i>Cellulose</i> , 2012, 19, 1933-1943.	2.4	31
41	Direct probing of solvent-induced charge degradation in polypropylene electret fibres via electrostatic force microscopy. <i>Journal of Microscopy</i> , 2007, 225, 72-79.	0.8	30
42	Soybean agglutinin-conjugated silver nanoparticles nanocarriers in the treatment of breast cancer cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 218-234.	1.9	28
43	Controlled synthesis of ZnO particles on the surface of natural cellulosic fibers: effect of concentration, heating and sonication. <i>Cellulose</i> , 2015, 22, 1841-1852.	2.4	26
44	Building Circular Economy for Smart Textiles, Smart Clothing, and Future Wearables. <i>Materials Circular Economy</i> , 2020, 2, 1.	1.6	26
45	Synthesis of a zinc-imidazole metal-organic framework (ZIF-8) using ZnO rods grown on cotton fabrics as precursors: arsenate absorption studies. <i>Cellulose</i> , 2020, 27, 6399-6410.	2.4	25
46	Multi-functional regenerated cellulose fibers decorated with plasmonic Au nanoparticles for colorimetry and SERS assays. <i>Cellulose</i> , 2018, 25, 6041-6053.	2.4	24
47	Effect of xylene exposure on the performance of electret filter media. <i>Journal of Aerosol Science</i> , 2006, 37, 903-911.	1.8	22
48	Apparatus for Studying the Effect of Mechanical Deformation on the Permeation of Organics through Polymeric Films. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2183-2187.	1.8	21
49	Electrostatic assembly of core-corona silica nanoparticles onto cotton fibers. <i>Cellulose</i> , 2013, 20, 1727-1736.	2.4	21
50	Grafting collagen on poly (lactic acid) by a simple route to produce electrospun scaffolds, and their cell adhesion evaluation. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 375-387.	1.6	19
51	In Situ and Real-Time Studies, via Synchrotron X-ray Scattering, of the Orientational Order of Cellulose Nanocrystals during Solution Shearing. <i>Langmuir</i> , 2018, 34, 5263-5272.	1.6	19
52	Synthesis, Characterization, and Catalytic Activity of Platinum Nanoparticles on Bovine-Bone Powder: A Novel Support. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-8.	1.5	19
53	Assembly of metal nanoparticles on regenerated fibers from wood sawdust and de-inked pulp: flexible substrates for surface enhanced Raman scattering (SERS) applications. <i>Cellulose</i> , 2015, 22, 3645-3655.	2.4	18
54	Can nanotechnology be fashionable?. <i>Materials Today</i> , 2007, 10, 64.	8.3	13

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55	Fabrication and characterization of a novel polypropylene/poly(vinyl alcohol)/aluminum hybrid layered assembly for high-performance fibrous insulation. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2525-2530.	1.3	13
56	Carbon nanotube/poly(vinyl alcohol) fibers with a sheath-core structure prepared by wet spinning. <i>Fibers and Polymers</i> , 2012, 13, 874-879.	1.1	13
57	Modification of Cotton Fibers with Magnetite and Magnetic Core-Shell Mesoporous Silica Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800266.	0.8	13
58	Cells on Pores: A Simulation-Driven Analysis of Transcellular Small Molecule Transport. <i>Molecular Pharmaceutics</i> , 2010, 7, 456-467.	2.3	12
59	Determination of the porosity in a bifacial fabric using micro-computed tomography and three-dimensional reconstruction. <i>Textile Research Journal</i> , 2018, 88, 1263-1277.	1.1	12
60	Surface Modification of Polyester Fabrics by Ozone and Its Effect on Coloration Using Disperse Dyes. <i>Materials</i> , 2021, 14, 3492.	1.3	12
61	Charge Characterization of an Electrically Charged Fiber via Electrostatic Force Microscopy. <i>Journal of Engineered Fibers and Fabrics</i> , 2006, 1, 155892500600100.	0.5	11
62	Size-controlled synthesis of Fe ₂ O ₃ and Fe ₃ O ₄ nanoparticles onto zeolite by means of a modified activated-coprecipitation method: effect of the HCl concentration during the activation. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	11
63	Thread-Based Wristwatch Sensing Device for Noninvasive and Simultaneous Detection of Glucose and Lactate. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	11
64	Formation of silk-gold nanocomposite fabric using grapefruit aqueous extract. <i>Textile Research Journal</i> , 2013, 83, 1229-1235.	1.1	10
65	The Long and Bright Path of a Lanthanide MOF: From Basics towards the Application. <i>Chemistry - A European Journal</i> , 2021, 27, 7376-7382.	1.7	10
66	Effect of temperature and elongation on the liquid diffusion and permeation characteristics of natural rubber, nitrile rubber, and bromobutyl rubber. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1250-1255.	1.3	9
67	Piezoelectric Poly(3-hydroxybutyrate)-Poly(lactic acid) Three Dimensional Scaffolds for Bone Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1025, 1.	0.1	9
68	Application of electrostatic force microscopy on characterizing an electrically charged fiber. <i>Fibers and Polymers</i> , 2010, 11, 775-781.	1.1	9
69	Surface modification of polyester fabrics using low pressure air radio frequency plasma. <i>International Journal of Fashion Design, Technology and Education</i> , 2010, 3, 119-127.	0.9	9
70	Synthesis of cellulose nanofiber hydrogels from fique tow and Ag nanoparticles. <i>Cellulose</i> , 2020, 27, 9947-9961.	2.4	9
71	Surface charge estimation on hemispherical dielectric samples from EFM force gradient measurements. <i>Journal of Electrostatics</i> , 2010, 68, 79-84.	1.0	7
72	Application of electrostatic force microscopy on characterizing an electret fiber: Effect of tip to specimen distance on phase shift. <i>Fibers and Polymers</i> , 2011, 12, 89-94.	1.1	7

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73	A Cell-based Computational Modeling Approach for Developing Site-Directed Molecular Probes. <i>PLoS Computational Biology</i> , 2012, 8, e1002378.	1.5	7
74	Silver micro-, submicro- and nano-crystals using bovine bone as template. Formation of a silver/bovine bone composite. <i>Materials Letters</i> , 2012, 85, 157-160.	1.3	7
75	Direct observation of the spatial distribution of charges on a polypropylene fiber via Electrostatic Force Microscopy. <i>Journal of Microscopy</i> , 2012, 248, 266-270.	0.8	7
76	Curcumin-Loaded Biodegradable Electrospun Fibers: Preparation, Characterization, and Differences in Fiber Morphology. <i>International Journal of Polymer Analysis and Characterization</i> , 2013, 18, 534-544.	0.9	7
77	Removal of sodium and chloride ions from aqueous solutions using fique fibers (<i>Furcraea</i> spp.). <i>Water Science and Technology</i> , 2016, 73, 1197-1201.	1.2	7
78	DFT studies on coordination models for adsorption essays of Cu(II) and Ni(II) solutions in modified silica gel with iminodiacetic groups. <i>Chemical Papers</i> , 2017, 71, 1019-1030.	1.0	7
79	Revolutionary Textiles: A Philosophical Inquiry on Electronic and Reactive Textiles. <i>Design Issues</i> , 2020, 36, 45-58.	0.2	7
80	High-Yield Synthesis of the Novel E,E-2,5-Dimethoxy-1,4-bis[2-(4-ethylcarboxylatestyryl)]benzene by the Heck Reaction. <i>Synthetic Communications</i> , 2013, 43, 2280-2285.	1.1	6
81	Enhanced biosorption of Cr(VI) using cotton fibers coated with chitosan – role of ester bonds. <i>Water Science and Technology</i> , 2018, 78, 476-486.	1.2	6
82	Conformal Functionalization of Cotton Fibers via Isoreticular Expansion of UiO-66 Metal-Organic Frameworks. <i>Coatings</i> , 2020, 10, 1172.	1.2	6
83	Degradation Processes in Corona-Charged Electret Filter-Media with Exposure to Ethyl Benzene. <i>Journal of Engineered Fibers and Fabrics</i> , 2007, 2, 155892500700200.	0.5	5
84	Adsorption mechanisms of emulsified crude oil droplets onto hydrophilic open-cell polymer foams. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	5
85	Permeation of Organics through Linear Low Density Polyethylene Geomembranes under Mechanical Deformation. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 1468-1474.	0.7	4
86	Structure and Properties of Poly(ethylene terephthalate) Fiber Webs Prepared via Laser-Electrospinning and Subsequent Annealing Processes. <i>Materials</i> , 2020, 13, 5783.	1.3	4
87	Versatile Covalent Postsynthetic Modification of Metal Organic Frameworks via Thermal Condensation for Fluoride Sensing in Waters. <i>Bioengineering</i> , 2021, 8, 196.	1.6	4
88	Planar or Biaxial Stretching of Poly(ethylene terephthalate) Fiber Webs Prepared by Laser-Electrospinning. <i>Materials</i> , 2022, 15, 2209.	1.3	4
89	Transport of small molecules through mechanically elongated polymeric membranes. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1200-1203.	1.3	3
90	Modeling of Cross-Flow Across an Electrostatically Charged Monolith Filter. <i>Particulate Science and Technology</i> , 2012, 30, 461-473.	1.1	3

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91	Undisciplining the university through shared purpose, practice, and place. Humanities and Social Sciences Communications, 2022, 9, .	1.3	3
92	Functionalization of poly(lacticâ€”glycolic acid) nanofibrous membranes with antibiofilm compounds. Canadian Journal of Chemical Engineering, 2022, 100, .	0.9	2
93	Electrospun Magnetic Nanofibers With Anti-Counterfeiting Applications. , 2005, , 467.		1
94	Collection Efficiency for Filters with Staggered Parallel Y and Triple Y Fibers: A Numerical Study. Journal of Engineered Fibers and Fabrics, 2009, 4, 155892500900400.	0.5	1
95	Boundary lubrication phenomena in coated textile surfaces. , 2008, , 419-447.		0
96	A Solid-State Pathway towards the Tunable Carboxylation of Cellulosic Fabrics: Controlling the Surfaceâ€™s Acidity. Membranes, 2021, 11, 514.	1.4	0