

Juan P Hinestroza

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.

105
papers

3,166
citations

31
h-index

54
g-index

114
ext. papers

3,603
ext. citations

4.6
avg, IF

5.51
L-index

#	Paper	IF	Citations
105	Nanotechnology in Textiles. <i>ACS Nano</i> , 2016 , 10, 3042-68	16.7	390
104	Metal nanoparticles on natural cellulose fibers: electrostatic assembly and in situ synthesis. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 797-803	9.5	168
103	Assembly of Metal Nanoparticles on Electrospun Nylon 6 Nanofibers by Control of Interfacial Hydrogen-Bonding Interactions. <i>Chemistry of Materials</i> , 2008 , 20, 6627-6632	9.6	158
102	Antibacterial activity against Escherichia coli of Cu-BTC (MOF-199) metal-organic framework immobilized onto cellulosic fibers. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	103
101	Deposition of silver nanoparticles on cellulosic fibers via stabilization of carboxymethyl groups. <i>Cellulose</i> , 2012 , 19, 411-424	5.5	103
100	In situ synthesis of a Cu-BTC metal-organic framework (MOF 199) onto cellulosic fibrous substrates: cotton. <i>Cellulose</i> , 2012 , 19, 1771-1779	5.5	101
99	Atomic layer deposition of conformal inorganic nanoscale coatings on three-dimensional natural fiber systems: effect of surface topology on film growth characteristics. <i>Langmuir</i> , 2007 , 23, 9844-9	4	98
98	Cotton Fabric Functionalized with a β -Cyclodextrin Polymer Captures Organic Pollutants from Contaminated Air and Water. <i>Chemistry of Materials</i> , 2016 , 28, 8340-8346	9.6	90
97	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. <i>Polymer Engineering and Science</i> , 2009 , 49, 2054-2061	2.3	84
96	Non-invasive textile based colorimetric sensor for the simultaneous detection of sweat pH and lactate. <i>Talanta</i> , 2019 , 192, 424-430	6.2	84
95	Layer-by-layer deposition of polyelectrolyte nanolayers on natural fibres: cotton. <i>Nanotechnology</i> , 2005 , 16, S422-8	3.4	82
94	Viscoelastic (Non-Fickian) Diffusion. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 83, 913-929	2.3	80
93	Controlled release of nonionic compounds from poly(lactic acid)/cellulose nanocrystal nanocomposite fibers. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 79-86	2.9	76
92	Organic electronics on natural cotton fibres. <i>Organic Electronics</i> , 2011 , 12, 2033-2039	3.5	76
91	Biocomposite of nanostructured MnO ₂ and fique fibers for efficient dye degradation. <i>Green Chemistry</i> , 2013 , 15, 2920	10	74
90	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	9.3	48
89	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, 2349-57	9.5	48

88	Manufacturing of twisted continuous PAN nanofiber yarn by electrospinning process. <i>Fibers and Polymers</i> , 2011 , 12, 610-615	2	47
87	Development and characterization of thin polymer films relevant to fiber processing. <i>Thin Solid Films</i> , 2009 , 517, 4348-4354	2.2	47
86	Acid-Base Polymeric Foams for the Adsorption of Micro-oil Droplets from Industrial Effluents. <i>Environmental Science & Technology</i> , 2017 , 51, 8552-8560	10.3	43
85	Electrospun Nanofibers with Associative Polymer-Surfactant Systems. <i>Macromolecules</i> , 2010 , 43, 7650-7656	5.5	42
84	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,	5.3	37
83	Associative Polymer Facilitated Electrospinning of Nanofibers. <i>Macromolecules</i> , 2008 , 41, 4275-4283	5.5	37
82	CuBTC metal-organic frameworks enmeshed in polyacrylonitrile fibrous membrane remove methyl parathion from solutions. <i>Fibers and Polymers</i> , 2014 , 15, 200-207	2	36
81	One-step growth of isorecticular luminescent metal-organic frameworks on cotton fibers. <i>RSC Advances</i> , 2015 , 5, 15198-15204	3.7	36
80	Direct measurement of fluid velocity in an electrospinning jet using particle image velocimetry. <i>Journal of Applied Physics</i> , 2007 , 102, 094308	2.5	36
79	Effect of surface cationization on the conformal deposition of polyelectrolytes over cotton fibers. <i>Cellulose</i> , 2007 , 14, 615-623	5.5	35
78	Controllable fabrication and properties of polypropylene nanofibers. <i>Polymer Engineering and Science</i> , 2007 , 47, 1865-1872	2.3	34
77	A panchromatic modification of the light absorption spectra of metal-organic frameworks. <i>Chemical Communications</i> , 2016 , 52, 6665-8	5.8	34
76	Cellulose meets reticular chemistry: interactions between cellulosic substrates and metal-organic frameworks. <i>Cellulose</i> , 2019 , 26, 123-137	5.5	34
75	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, 429-36	8.3	31
74	Oriented Growth of MnO Nanorods Using Natural Extracts from Grape Stems and Apple Peels. <i>Nanomaterials</i> , 2017 , 7,	5.4	31
73	Conformal coating of yarns and wires with electrospun nanofibers. <i>Polymer Engineering and Science</i> , 2012 , 52, 1724-1732	2.3	30
72	Cotton thread-based wearable sensor for non-invasive simultaneous diagnosis of diabetes and kidney failure. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128549	8.5	29
71	Nanowire-functionalized cotton textiles. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2262-9	9.5	28

70	Versatile Molding Process for Tough Cellulose Hydrogel Materials. <i>Scientific Reports</i> , 2015 , 5, 16266	4.9	24
69	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	3.8	23
68	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	5.5	21
67	Soybean agglutinin-conjugated silver nanoparticles nanocarriers in the treatment of breast cancer cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 218-34	3.5	21
66	Multi-functional regenerated cellulose fibers decorated with plasmonic Au nanoparticles for colorimetry and SERS assays. <i>Cellulose</i> , 2018 , 25, 6041-6053	5.5	21
65	In situ synthesis of gold nanoparticles using fique natural fibers as template. <i>Cellulose</i> , 2012 , 19, 1933-1943	4.3	21
64	Transparent Ultraviolet (UV)-Shielding Films Made from Waste Hemp Hurd and Polyvinyl Alcohol (PVA). <i>Polymers</i> , 2020 , 12,	4.5	20
63	Effect of xylene exposure on the performance of electret filter media. <i>Journal of Aerosol Science</i> , 2006 , 37, 903-911	4.3	20
62	Direct probing of solvent-induced charge degradation in polypropylene electret fibres via electrostatic force microscopy. <i>Journal of Microscopy</i> , 2007 , 225, 72-9	1.9	19
61	Electrostatic assembly of core-corona silica nanoparticles onto cotton fibers. <i>Cellulose</i> , 2013 , 20, 1727-1736	3.6	18
60	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	3.9	17
59	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	4.5	15
58	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	5.5	13
57	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	2.9	13
56	Synthesis, Characterization, and Catalytic Activity of Platinum Nanoparticles on Bovine-Bone Powder: A Novel Support. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-8	3.2	13
55	Synthesis of a zincimidazole metalorganic framework (ZIF-8) using ZnO rods grown on cotton fabrics as precursors: arsenate absorption studies. <i>Cellulose</i> , 2020 , 27, 6399-6410	5.5	12
54	2014 ,		12
53	Can nanotechnology be fashionable?. <i>Materials Today</i> , 2007 , 10, 64	21.8	12

52	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	4	11
51	Carbon nanotube/poly(vinyl alcohol) fibers with a sheath-core structure prepared by wet spinning. <i>Fibers and Polymers</i> , 2012 , 13, 874-879	2	11
50	Building Circular Economy for Smart Textiles, Smart Clothing, and Future Wearables. <i>Materials Circular Economy</i> , 2020 , 2, 1	4.3	11
49	Determination of the porosity in a bifacial fabric using micro-computed tomography and three-dimensional reconstruction. <i>Textile Reseach Journal</i> , 2018 , 88, 1263-1277	1.7	10
48	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	1.6	10
47	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	2.3	10
46	Cells on pores: a simulation-driven analysis of transcellular small molecule transport. <i>Molecular Pharmaceutics</i> , 2010 , 7, 456-67	5.6	10
45	Formation of silk-gold nanocomposite fabric using grapefruit aqueous extract. <i>Textile Reseach Journal</i> , 2013 , 83, 1229-1235	1.7	8
44	Application of electrostatic force microscopy on characterizing an electrically charged fiber. <i>Fibers and Polymers</i> , 2010 , 11, 775-781	2	8
43	Piezoelectric Poly(3-hydroxybutyrate)-Poly(lactic acid) Three Dimensional Scaffolds for Bone Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1025, 1		8
42	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	1.9	7
41	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	3.3	7
40	Surface charge estimation on hemispherical dielectric samples from EFM force gradient measurements. <i>Journal of Electrostatics</i> , 2010 , 68, 79-84	1.7	7
39	Cellulose-Nanofiber-Based Materials 2014 , 1-25		6
38	Direct observation of the spatial distribution of charges on a polypropylene fiber via Electrostatic Force Microscopy. <i>Journal of Microscopy</i> , 2012 , 248, 266-70	1.9	6
37	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	1.7	6
36	A cell-based computational modeling approach for developing site-directed molecular probes. <i>PLoS Computational Biology</i> , 2012 , 8, e1002378	5	6
35	Charge Characterization of an Electrically Charged Fiber via Electrostatic Force Microscopy. <i>Journal of Engineered Fibers and Fabrics</i> , 2006 , 1, 155892500600100	0.9	6

34	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	2.9	6
33	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	2	5
32	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	1.1	5
31	Revolutionary Textiles: A Philosophical Inquiry on Electronic and Reactive Textiles. <i>Design Issues</i> , 2020 , 36, 45-58	0.7	5
30	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	2.2	4
29	Adsorption mechanisms of emulsified crude oil droplets onto hydrophilic open-cell polymer foams 2017 ,		4
28	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	1.7	4
27	Permeation of Organics through Linear Low Density Polyethylene Geomembranes under Mechanical Deformation. <i>Journal of Environmental Engineering, ASCE</i> , 2004 , 130, 1468-1474	2	4
26	Surface Modification of Polyester Fabrics by Ozone and Its Effect on Coloration Using Disperse Dyes. <i>Materials</i> , 2021 , 14,	3.5	4
25	Removal of sodium and chloride ions from aqueous solutions using fique fibers (<i>Furcraea</i> spp.). <i>Water Science and Technology</i> , 2016 , 73, 1197-201	2.2	4
24	Fabrication and Evaluation of Cellulose-Nanofiber-Reinforced Green Composites 2014 , 27-42		3
23	Composites of Nanocellulose and Lignin-like Polymers 2014 , 185-200		3
22	Modeling of Cross-Flow Across an Electrostatically Charged Monolith Filter. <i>Particulate Science and Technology</i> , 2012 , 30, 461-473	2	3
21	Transport of small molecules through mechanically elongated polymeric membranes. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1200-1203	2.9	3
20	Synthesis of cellulose nanofiber hydrogels from fique tow and Ag nanoparticles. <i>Cellulose</i> , 2020 , 27, 9943-9961	3.9	3
19	Conformal Functionalization of Cotton Fibers via Isoreticular Expansion of UiO-66 Metal-Organic Frameworks. <i>Coatings</i> , 2020 , 10, 1172	2.9	3
18	Hydrolytic Degradation of Nanocomposite Fibers Electrospun from Poly(Lactic Acid)/Cellulose Nanocrystals 2014 , 117-136		2
17	Degradation Processes in Corona-Charged Electret Filter-Media with Exposure to Ethyl Benzene. <i>Journal of Engineered Fibers and Fabrics</i> , 2007 , 2, 155892500700200	0.9	2

16	The Long and Bright Path of a Lanthanide MOF: From Basics towards the Application. <i>Chemistry - A European Journal</i> , 2021 , 27, 7376-7382	4.8	2
15	Nanocomposites Based on Matrices Extracted from Vegetable Oils and Bacterial Cellulose 2014 , 63-78		1
14	Tools to Probe Nanoscale Surface Phenomena in Cellulose Thin Films: Applications in the Area of Adsorption and Friction 2009 , 91-121		1
13	Collection Efficiency for Filters with Staggered Parallel Y and Triple Y Fibers: A Numerical Study. <i>Journal of Engineered Fibers and Fabrics</i> , 2009 , 4, 155892500900400	0.9	1
12	Electrospun Magnetic Nanofibers With Anti-Counterfeiting Applications 2005 , 467		1
11	Structure and Properties of Poly(ethylene terephthalate) Fiber Webs Prepared via Laser-Electrospinning and Subsequent Annealing Processes. <i>Materials</i> , 2020 , 13,	3.5	1
10	Thread-Based Wristwatch Sensing Device for Noninvasive and Simultaneous Detection of Glucose and Lactate. <i>Advanced Materials Technologies</i> , 2101684	6.8	0
9	Biocomposites Made from Bovine Bone and Crystals of Silver and Platinum 2014 , 215-231		
8	Bio-Inspired Synthesis of Metal Nanoparticles Using Cellulosic Substrates as Nature Templates 2014 , 233-248		
7	Toughening and Strengthening of Natural Fiber Green Composites 2014 , 157-183		
6	Cellulose Microfibrils Isolated from Musaceae Fibrous Residues 2014 , 43-61		
5	Wood/Biopolymer/Nanoclay Composites 2014 , 261-295		
4	Conformal Coating of Antimicrobial Silver Nanoparticles on Cationic and Anionic Cellulosic Substrates 2014 , 249-260		
3	Environment-Friendly Green Resins and Advanced Green Composites 2014 , 137-155		
2	Biodegradable Polymer Materials from Proteins Produced by the Animal Coproducts Industry: Bloodmeal 2014 , 201-214		
1	Boundary lubrication phenomena in coated textile surfaces 2008 , 419-447		