Junkal Gutierrez

List of Publications by Citations

63 papers	1,204 citations	21 h-index	32 g-index
65 ext. papers	1,376 ext. citations	6 avg, IF	4.46 L-index

#	Paper	IF	Citations
63	A multipurpose natural and renewable polymer in medical applications: Bacterial cellulose. *Carbohydrate Polymers*, **2016**, 153, 406-420	10.3	199
62	Hydrothermal synthesis of bacterial cellulose-copper oxide nanocomposites and evaluation of their antimicrobial activity. *Carbohydrate Polymers*, **2018**, 179, 341-349	10.3	68
61	Effect of in situ modification of bacterial cellulose with carboxymethylcellulose on its nano/microstructure and methotrexate release properties. *Carbohydrate Polymers*, **2018**, 179, 126-134	10.3	58
60	Hybrid titanium dioxide/PS-b-PEO block copolymer nanocomposites based on sol-gel synthesis. *Nanotechnology*, **2008**, 19, 155607	3.4	57
59	Conductive properties of TiO2/bacterial cellulose hybrid fibres. *Journal of Colloid and Interface Science*, **2012**, 377, 88-93	9.3	56
58	Komagataeibacter rhaeticus grown in sugarcane molasses-supplemented culture medium as a strategy for enhancing bacterial cellulose production. *Industrial Crops and Products*, **2018**, 122, 637-646	5.9	47
57	Komagataeibacter rhaeticus as an alternative bacteria for cellulose production. *Carbohydrate Polymers*, **2016**, 152, 841-849	10.3	40
56	Conductive behavior of high TiO2 nanoparticle content of inorganic/organic nanostructured composites. *Journal of the American Chemical Society*, **2010**, 132, 873-8	16.4	40
55	Multifunctional hybrid nanopapers based on bacterial cellulose and sol□gel synthesized titanium/vanadium oxide nanoparticles. *Cellulose*, **2013**, 20, 1301-1311	5.5	36
54	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. *Macromolecular Materials and Engineering*, **2008**, 293, 568-573	3.9	34
53	Conductive photoswitchable vanadium oxide nanopaper based on bacterial cellulose. *ChemSusChem*, **2012**, 5, 2323-7	8.3	32
52	Arrangement of Conductive TiO2 Nanoparticles in Hybrid Inorganic/Organic Thermosetting Materials Using Liquid Crystal. *Macromolecules*, **2009**, 42, 3386-3390	5.5	30
51	Synthesis and factorial design applied to a novel chitosan/sodium polyphosphate nanoparticles via ionotropic gelation as an RGD delivery system. *Carbohydrate Polymers*, **2017**, 157, 1695-1702	10.3	28
50	Morphological and optical behavior of thermoset matrix composites varying both polystyrene-block-poly(ethylene oxide) and TiO2 nanoparticle content. *Polymer*, **2011**, 52, 5699-5707	3.9	27
49	Nano- and macroscale structural and mechanical properties of in situ synthesized bacterial cellulose/PEO-b-PPO-b-PEO biocomposites. *ACS Applied Materials & Interfaces*, **2015**, 7, 4142-50	9.5	26
48	Transparent Nanostructured Thermoset Composites Containing Well-Dispersed TiO2 Nanoparticles. *Journal of Physical Chemistry C*, **2010**, 114, 22424-22430	3.8	26
47	Conductive Properties of Inorganic and Organic TiO2/Polystyrene-block-Poly(ethylene oxide) Nanocomposites. *Journal of Physical Chemistry C*, **2009**, 113, 8601-8605	3.8	26

46	Stackable, Covalently Fused Gels: Repair and Composite Formation. *Macromolecules*, **2015**, 48, 1169-1178	5.5	25
45	The effect of thermal and vapor annealing treatments on the self-assembly of TiO2/PS-b-PMMA nanocomposites generated via the sol-gel process. *Nanotechnology*, **2009**, 20, 225603	3.4	23
44	Biocellulose-based flexible magnetic paper. *Journal of Applied Physics*, **2015**, 117, 17B734	2.5	21
43	Transparent titanium dioxide/block copolymer modified epoxy-based systems in the long scale microphase separation threshold. *European Polymer Journal*, **2012**, 48, 16-25	5.2	21
42	Optical sensor platform based on cellulose nanocrystals (CNC) - 4U(hexyloxy)-4-biphenylcarbonitrile (HOBC) bi-phase nematic liquid crystal composite films. *Carbohydrate Polymers*, **2017**, 168, 346-355	10.3	20
41	Mapping of carbon nanotubes in the polystyrene domains of a polystyrene-b-polyisoprene-b-polystyrene block copolymer matrix using electrostatic force microscopy. *Carbon*, **2010**, 48, 2590-2595	10.4	20
40	Nanostructuration via Solvent Vapor Exposure of Poly(2-vinyl pyridine-b-methyl methacrylate) Nanocomposites Using Modified Magnetic Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 14343-14347	3.8	19
39	Quantitative Nanoelectrical and Nanomechanical Properties of Nanostructured Hybrid Composites by PeakForce Tunneling Atomic Force Microscopy. *Journal of Physical Chemistry C*, **2014**, 118, 1206-1212	3.8	16
38	Thermoresponsive inorganic/organic hybrids based on conductive TiO2 nanoparticles embedded in poly(styrene-b-ethylene oxide) block copolymer dispersed liquid crystals. *Acta Materialia*, **2009**, 57, 4624-4631	8.4	14
37	Transparent nanostructured cellulose acetate films based on the self assembly of PEO-b-PPO-b-PEO block copolymer. *Carbohydrate Polymers*, **2017**, 165, 437-443	10.3	12
36	Transparent and Flexible Cellulose Triacetate/TiO2 Nanoparticles with Conductive and UV-Shielding Properties. *Journal of Physical Chemistry C*, **2020**, 124, 4242-4251	3.8	12
35	New electroactive macromonomers and multi-responsive PEDOT graft copolymers. *Polymer Chemistry*, **2018**, 9, 3780-3790	4.9	11
34	Natural gum rosin thin films nanopatterned by poly(styrene)-block-poly(4-vinylpiridine) block copolymer. *RSC Advances*, **2014**, 4, 32024	3.7	11
33	Rutile TiO2 Nanoparticles Dispersed in a Self-Assembled Polystyrene-block-polymethyl Methacrylate Diblock Copolymer Template. *Journal of Physical Chemistry C*, **2013**, 117, 1151-1156	3.8	11
32	An Ideal Spin Filter: Long-Range, High-Spin Selectivity in Chiral Helicoidal 3-Dimensional Metal Organic Frameworks. *Nano Letters*, **2020**, 20, 8476-8482	11.5	11
31	Flexible photochromic cellulose triacetate based bionanocomposites modified with sol-gel synthesized VO nanoparticles. *Carbohydrate Polymers*, **2019**, 208, 50-58	10.3	11
30	Switchable photoluminescence liquid crystal coated bacterial cellulose films with conductive response. *Carbohydrate Polymers*, **2016**, 143, 188-97	10.3	10
29	Cellulose Nanocrystals and Au Nanoparticles Well-Dispersed in a Poly(styrene-b-ethylene oxide) Block Copolymer Matrix. *Journal of Physical Chemistry C*, **2011**, 115, 22180-22185	3.8	9

28	Quantitative nanomechanical property mapping of epoxy thermosetting system modified with poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) triblock copolymer. *Polymer Testing*, **2017** , 57, 38-41	4.5	8
27	Enhancement of the mechanical properties at the macro and nanoscale of thermosetting systems modified with a polystyrene-block-polymethyl methacrylate block copolymer. *RSC Advances*, **2015**, 5, 102085-102095	3.7	8
26	Conductive properties of switchable photoluminescence thermosetting systems based on liquid crystals. *Langmuir*, **2010**, 26, 4296-302	4	8
25	Improvement of macroscale properties of TiO/cellulose acetate hybrid films by solvent vapour annealing. *Carbohydrate Polymers*, **2020**, 231, 115683	10.3	8
24	Thermal and optical behavior of poly(ethylene-b-ethylene oxide) block copolymer dispersed liquid crystals blends. *European Polymer Journal*, **2016**, 74, 148-157	5.2	6
23	Conductive Properties of Photoluminescent Au/Ps-b-PEO Inorganic/Organic Hybrids Containing Nematic Liquid Crystals. *Journal of Physical Chemistry C*, **2011**, 115, 1643-1648	3.8	6
22	Semi-paracrystallinity in semi-conducting polymers.. *Materials Horizons*, **2022**,	14.4	6
21	Tuning photoresponsive and dielectric properties of PVA/CdSe films by capping agent change. *Composites Part A: Applied Science and Manufacturing*, **2019**, 118, 194-201	8.4	6
20	The effect of TiO2 nanocrystal shape on the electrical properties of poly(styrene-b-methyl methacrylate) block copolymer based nanocomposites for solar cell application. *Electrochimica Acta* , **2015**, 184, 8-16	6.7	5
19	Thin Film Nanocomposites Based on SBM Triblock Copolymer and Silver Nanoparticles: Morphological and Dielectric Analysis. *Macromolecular Materials and Engineering*, **2017**, 302, 1700169	3.9	5
18	Optical reversible behavior of poly(ethylene- b -ethylene oxide) block copolymer dispersed liquid crystal blends. *European Polymer Journal*, **2017**, 91, 187-196	5.2	4
17	Hybrid materials based on azopolymer and sol□el synthesized silver-containing titanium oxide nanoparticles with photoinduced birefringence. *RSC Advances*, **2015**, 5, 15740-15748	3.7	4
16	Conductive Properties of Inorganic/Organic Nanostructured Systems Based on Block Copolymers. *Materials Science Forum*, **2012**, 714, 153-158	0.4	4
15	Optimization of the electrospinning processing-window to fabricate nanostructured PE-b-PEO and hybrid PE-b-PEO/EBBA fibers. *Polymer Engineering and Science*, **2017**, 57, 1157	2.3	3
14	Electrical properties of TiO2/SEO nanocomposites: From macro to nano. *Electrochimica Acta*, **2011**, 56, 5582-5586	6.7	3
13	Bacterial Cellulose **2016**, 384-399		3
12	Growth of magnetic cobalt hexacyanoferrate nanoparticles onto bacterial cellulose nanofibers. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 16956-16965	2.1	2
11	PE-b-PEO block copolymer nanostructured thermosetting systems as template for TiO2 nanoparticles. *European Polymer Journal*, **2017**, 94, 87-98	5.2	2

List of Publications

10	Multifunctional Nanostructured Composites Based on TiO2 Nanoparticles. *Macromolecular Symposia*, **2012**, 321-322, 99-104	0.8	2
9	Creating a Green Chemistry Lab: Towards Sustainable Resource Management and Responsible Purchasing. *Sustainability*, **2020**, 12, 8934	3.6	1
8	Effect of Fe2O3 Nanoparticles on the Cross-Linking and Final Properties of PVA/Citric Acid-Based Nanocomposites. *Journal of Physical Chemistry C*, **2020**, 124, 5444-5451	3.8	1
7	Nanostructured Thermoset Composites Containing Conductive TiO2 Nanoparticles. *Materials Science Forum*, **2012**, 714, 147-152	0.4	1
6	Photo-active chitosan-based hybrid films. *European Polymer Journal*, **2020**, 122, 109373	5.2	1
5	Comparative study of nano and macro mechanical properties of cellulose triacetate based nanocomposites by mean of quantitative nanomechanical mapping and mechanical testing. *Composites Science and Technology*, **2021**, 211, 108851	8.6	0
4	Fabrication and Characterization of Light-responsive Multilayer Films of Chitosan and Azopolymer. *Materials Today: Proceedings*, **2015**, 2, 336-344	1.4	
3	Chapter 4 Block Copolymer Assisted Sol-Gel Templating **2016**, 111-140		
2	Rheology of Epoxy/Block Copolymer Blends **2016**, 1-24		
1	Rheology of Epoxy/Block-Copolymer Blends **2017**, 955-977		