

Junkal Gutierrez

List of Publications by Year in Descending Order

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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.

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	Semi-paracrystallinity in semi-conducting polymers.. <i>Materials Horizons</i> , 2022 ,	14.4	6
62	Comparative study of nano and macro mechanical properties of cellulose triacetate based nanocomposites by mean of quantitative nanomechanical mapping and mechanical testing. <i>Composites Science and Technology</i> , 2021 , 211, 108851	8.6	0
61	Creating a Green Chemistry Lab: Towards Sustainable Resource Management and Responsible Purchasing. <i>Sustainability</i> , 2020 , 12, 8934	3.6	1
60	Transparent and Flexible Cellulose Triacetate/TiO ₂ Nanoparticles with Conductive and UV-Shielding Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4242-4251	3.8	12
59	Effect of Fe ₂ O ₃ Nanoparticles on the Cross-Linking and Final Properties of PVA/Citric Acid-Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5444-5451	3.8	1
58	Improvement of macroscale properties of TiO/cellulose acetate hybrid films by solvent vapour annealing. <i>Carbohydrate Polymers</i> , 2020 , 231, 115683	10.3	8
57	Photo-active chitosan-based hybrid films. <i>European Polymer Journal</i> , 2020 , 122, 109373	5.2	1
56	An Ideal Spin Filter: Long-Range, High-Spin Selectivity in Chiral Helicoidal 3-Dimensional Metal Organic Frameworks. <i>Nano Letters</i> , 2020 , 20, 8476-8482	11.5	11
55	Growth of magnetic cobalt hexacyanoferrate nanoparticles onto bacterial cellulose nanofibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16956-16965	2.1	2
54	Tuning photoresponsive and dielectric properties of PVA/CdSe films by capping agent change. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 118, 194-201	8.4	6
53	Flexible photochromic cellulose triacetate based bionanocomposites modified with sol-gel synthesized VO nanoparticles. <i>Carbohydrate Polymers</i> , 2019 , 208, 50-58	10.3	11
52	Effect of in situ modification of bacterial cellulose with carboxymethylcellulose on its nano/microstructure and methotrexate release properties. <i>Carbohydrate Polymers</i> , 2018 , 179, 126-134	10.3	58
51	Hydrothermal synthesis of bacterial cellulose-copper oxide nanocomposites and evaluation of their antimicrobial activity. <i>Carbohydrate Polymers</i> , 2018 , 179, 341-349	10.3	68
50	New electroactive macromonomers and multi-responsive PEDOT graft copolymers. <i>Polymer Chemistry</i> , 2018 , 9, 3780-3790	4.9	11
49	Komagataeibacter rhaeticus grown in sugarcane molasses-supplemented culture medium as a strategy for enhancing bacterial cellulose production. <i>Industrial Crops and Products</i> , 2018 , 122, 637-646	5.9	47
48	Transparent nanostructured cellulose acetate films based on the self assembly of PEO-b-PPO-b-PEO block copolymer. <i>Carbohydrate Polymers</i> , 2017 , 165, 437-443	10.3	12
47	Optimization of the electrospinning processing-window to fabricate nanostructured PE-b-PEO and hybrid PE-b-PEO/EBBA fibers. <i>Polymer Engineering and Science</i> , 2017 , 57, 1157	2.3	3

46	Quantitative nanomechanical property mapping of epoxy thermosetting system modified with poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) triblock copolymer. <i>Polymer Testing</i> , 2017 , 57, 38-41	4.5	8
45	Optical sensor platform based on cellulose nanocrystals (CNC) - 4-(hexyloxy)-4-biphenylcarbonitrile (HOBC) bi-phase nematic liquid crystal composite films. <i>Carbohydrate Polymers</i> , 2017 , 168, 346-355	10.3	20
44	Optical reversible behavior of poly(ethylene- b -ethylene oxide) block copolymer dispersed liquid crystal blends. <i>European Polymer Journal</i> , 2017 , 91, 187-196	5.2	4
43	Synthesis and factorial design applied to a novel chitosan/sodium polyphosphate nanoparticles via ionotropic gelation as an RGD delivery system. <i>Carbohydrate Polymers</i> , 2017 , 157, 1695-1702	10.3	28
42	Thin Film Nanocomposites Based on SBM Triblock Copolymer and Silver Nanoparticles: Morphological and Dielectric Analysis. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700169	3.9	5
41	PE-b-PEO block copolymer nanostructured thermosetting systems as template for TiO ₂ nanoparticles. <i>European Polymer Journal</i> , 2017 , 94, 87-98	5.2	2
40	Rheology of Epoxy/Block-Copolymer Blends 2017 , 955-977		
39	Chapter 4 Block Copolymer Assisted Sol-Gel Templating 2016 , 111-140		
38	A multipurpose natural and renewable polymer in medical applications: Bacterial cellulose. <i>Carbohydrate Polymers</i> , 2016 , 153, 406-420	10.3	199
37	Komagataeibacter rhaeticus as an alternative bacteria for cellulose production. <i>Carbohydrate Polymers</i> , 2016 , 152, 841-849	10.3	40
36	Switchable photoluminescence liquid crystal coated bacterial cellulose films with conductive response. <i>Carbohydrate Polymers</i> , 2016 , 143, 188-97	10.3	10
35	Thermal and optical behavior of poly(ethylene-b-ethylene oxide) block copolymer dispersed liquid crystals blends. <i>European Polymer Journal</i> , 2016 , 74, 148-157	5.2	6
34	Rheology of Epoxy/Block Copolymer Blends 2016 , 1-24		
33	Bacterial Cellulose 2016 , 384-399		3
32	Fabrication and Characterization of Light-responsive Multilayer Films of Chitosan and Azopolymer. <i>Materials Today: Proceedings</i> , 2015 , 2, 336-344	1.4	
31	Biocellulose-based flexible magnetic paper. <i>Journal of Applied Physics</i> , 2015 , 117, 17B734	2.5	21
30	Hybrid materials based on azopolymer and sol-gel synthesized silver-containing titanium oxide nanoparticles with photoinduced birefringence. <i>RSC Advances</i> , 2015 , 5, 15740-15748	3.7	4
29	The effect of TiO ₂ nanocrystal shape on the electrical properties of poly(styrene-b-methyl methacrylate) block copolymer based nanocomposites for solar cell application. <i>Electrochimica Acta</i> , 2015 , 184, 8-16	6.7	5

28	Enhancement of the mechanical properties at the macro and nanoscale of thermosetting systems modified with a polystyrene-block-polymethyl methacrylate block copolymer. <i>RSC Advances</i> , 2015 , 5, 102085-102095	3.7	8
27	Stackable, Covalently Fused Gels: Repair and Composite Formation. <i>Macromolecules</i> , 2015 , 48, 1169-1178	3.5	25
26	Nano- and macroscale structural and mechanical properties of in situ synthesized bacterial cellulose/PEO-b-PPO-b-PEO biocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4142-50	9.5	26
25	Natural gum rosin thin films nanopatterned by poly(styrene)-block-poly(4-vinylpyridine) block copolymer. <i>RSC Advances</i> , 2014 , 4, 32024	3.7	11
24	Quantitative Nanoelectrical and Nanomechanical Properties of Nanostructured Hybrid Composites by PeakForce Tunneling Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1206-1212	3.8	16
23	Multifunctional hybrid nanopapers based on bacterial cellulose and sol-gel synthesized titanium/vanadium oxide nanoparticles. <i>Cellulose</i> , 2013 , 20, 1301-1311	5.5	36
22	Rutile TiO ₂ Nanoparticles Dispersed in a Self-Assembled Polystyrene-block-polymethyl Methacrylate Diblock Copolymer Template. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1151-1156	3.8	11
21	Conductive properties of TiO ₂ /bacterial cellulose hybrid fibres. <i>Journal of Colloid and Interface Science</i> , 2012 , 377, 88-93	9.3	56
20	Transparent titanium dioxide/block copolymer modified epoxy-based systems in the long scale microphase separation threshold. <i>European Polymer Journal</i> , 2012 , 48, 16-25	5.2	21
19	Conductive photoswitchable vanadium oxide nanopaper based on bacterial cellulose. <i>ChemSusChem</i> , 2012 , 5, 2323-7	8.3	32
18	Conductive Properties of Inorganic/Organic Nanostructured Systems Based on Block Copolymers. <i>Materials Science Forum</i> , 2012 , 714, 153-158	0.4	4
17	Nanostructured Thermoset Composites Containing Conductive TiO ₂ Nanoparticles. <i>Materials Science Forum</i> , 2012 , 714, 147-152	0.4	1
16	Multifunctional Nanostructured Composites Based on TiO ₂ Nanoparticles. <i>Macromolecular Symposia</i> , 2012 , 321-322, 99-104	0.8	2
15	Cellulose Nanocrystals and Au Nanoparticles Well-Dispersed in a Poly(styrene-b-ethylene oxide) Block Copolymer Matrix. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22180-22185	3.8	9
14	Morphological and optical behavior of thermoset matrix composites varying both polystyrene-block-poly(ethylene oxide) and TiO ₂ nanoparticle content. <i>Polymer</i> , 2011 , 52, 5699-5707	3.9	27
13	Conductive Properties of Photoluminescent Au/Ps-b-PEO Inorganic/Organic Hybrids Containing Nematic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1643-1648	3.8	6
12	Electrical properties of TiO ₂ /SEO nanocomposites: From macro to nano. <i>Electrochimica Acta</i> , 2011 , 56, 5582-5586	6.7	3
11	Conductive behavior of high TiO ₂ nanoparticle content of inorganic/organic nanostructured composites. <i>Journal of the American Chemical Society</i> , 2010 , 132, 873-8	16.4	40

10	Transparent Nanostructured Thermoset Composites Containing Well-Dispersed TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22424-22430	3.8	26
9	Conductive properties of switchable photoluminescence thermosetting systems based on liquid crystals. <i>Langmuir</i> , 2010 , 26, 4296-302	4	8
8	Mapping of carbon nanotubes in the polystyrene domains of a polystyrene-b-polyisoprene-b-polystyrene block copolymer matrix using electrostatic force microscopy. <i>Carbon</i> , 2010 , 48, 2590-2595	10.4	20
7	Thermoresponsive inorganic/organic hybrids based on conductive TiO ₂ nanoparticles embedded in poly(styrene-b-ethylene oxide) block copolymer dispersed liquid crystals. <i>Acta Materialia</i> , 2009 , 57, 4624-4631	8.4	14
6	Conductive Properties of Inorganic and Organic TiO ₂ /Polystyrene-block-Poly(ethylene oxide) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8601-8605	3.8	26
5	Arrangement of Conductive TiO ₂ Nanoparticles in Hybrid Inorganic/Organic Thermosetting Materials Using Liquid Crystal. <i>Macromolecules</i> , 2009 , 42, 3386-3390	5.5	30
4	The effect of thermal and vapor annealing treatments on the self-assembly of TiO ₂ /PS-b-PMMA nanocomposites generated via the sol-gel process. <i>Nanotechnology</i> , 2009 , 20, 225603	3.4	23
3	Hybrid titanium dioxide/PS-b-PEO block copolymer nanocomposites based on sol-gel synthesis. <i>Nanotechnology</i> , 2008 , 19, 155607	3.4	57
2	Nanostructuring via Solvent Vapor Exposure of Poly(2-vinyl pyridine-b-methyl methacrylate) Nanocomposites Using Modified Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14343-14347	3.8	19
1	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 568-573	3.9	34