

# Junkal Gutierrez

## List of Publications by Year in descending order

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64  
papers

1,537  
citations

304743

22  
h-index

315739

38  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multipurpose natural and renewable polymer in medical applications: Bacterial cellulose. Carbohydrate Polymers, 2016, 153, 406-420.	10.2	250
2	Hydrothermal synthesis of bacterial cellulose-copper oxide nanocomposites and evaluation of their antimicrobial activity. Carbohydrate Polymers, 2018, 179, 341-349.	10.2	94
3	Effect of in situ modification of bacterial cellulose with carboxymethylcellulose on its nano/microstructure and methotrexate release properties. Carbohydrate Polymers, 2018, 179, 126-134.	10.2	87
4	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.	5.2	74
5	Conductive properties of TiO <sub>2</sub> /bacterial cellulose hybrid fibres. Journal of Colloid and Interface Science, 2012, 377, 88-93.	9.4	64
6	Hybrid titanium dioxide/PS-b-PEO block copolymer nanocomposites based on sol-gel synthesis. Nanotechnology, 2008, 19, 155607.	2.6	62
7	Komagataeibacter rhaeticus as an alternative bacteria for cellulose production. Carbohydrate Polymers, 2016, 152, 841-849.	10.2	54
8	An Ideal Spin Filter: Long-Range, High-Spin Selectivity in Chiral Helicoidal 3-Dimensional Metal Organic Frameworks. Nano Letters, 2020, 20, 8476-8482.	9.1	47
9	Conductive Behavior of High TiO <sub>2</sub> Nanoparticle Content of Inorganic/Organic Nanostructured Composites. Journal of the American Chemical Society, 2010, 132, 873-878.	13.7	40
10	Multifunctional hybrid nanopapers based on bacterial cellulose and sol-gel synthesized titanium/vanadium oxide nanoparticles. Cellulose, 2013, 20, 1301-1311.	4.9	40
11	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.	10.2	40
12	Conductive Photoswitchable Vanadium Oxide Nanopaper based on Bacterial Cellulose. ChemSusChem, 2012, 5, 2323-2327.	6.8	37
13	Nano- and Macroscale Structural and Mechanical Properties of in Situ Synthesized Bacterial Cellulose/PEO-PPO-PEO Biocomposites. ACS Applied Materials & Interfaces, 2015, 7, 4142-4150.	8.0	36
14	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. Macromolecular Materials and Engineering, 2008, 293, 568-573.	3.6	34
15	Arrangement of Conductive TiO <sub>2</sub> Nanoparticles in Hybrid Inorganic/Organic Thermosetting Materials Using Liquid Crystal. Macromolecules, 2009, 42, 3386-3390.	4.8	33
16	Stackable, Covalently Fused Gels: Repair and Composite Formation. Macromolecules, 2015, 48, 1169-1178.	4.8	30
17	Conductive Properties of Inorganic and Organic TiO <sub>2</sub> /Polystyrene-block-Poly(ethylene oxide) Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 8601-8605.	3.1	27
18	Morphological and optical behavior of thermoset matrix composites varying both polystyrene-block-poly(ethylene oxide) and TiO <sub>2</sub> nanoparticle content. Polymer, 2011, 52, 5699-5707.	3.8	27

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19	Transparent Nanostructured Thermoset Composites Containing Well-Dispersed TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22424-22430.	3.1	26
20	Optical sensor platform based on cellulose nanocrystals (CNC) and 4-(hexyloxy)-4-biphenylcarbonitrile (HOBC) bi-phase nematic liquid crystal composite films. <i>Carbohydrate Polymers</i> , 2017, 168, 346-355.	10.2	26
21	The effect of thermal and vapor annealing treatments on the self-assembly of TiO <sub>2</sub> /PS-b-PMMA nanocomposites generated via the sol-gel process. <i>Nanotechnology</i> , 2009, 20, 225603.	2.6	24
22	Biocellulose-based flexible magnetic paper. <i>Journal of Applied Physics</i> , 2015, 117, 17B734.	2.5	24
23	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.	10.3	22
24	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.	5.4	21
25	Transparent and Flexible Cellulose Triacetate/TiO <sub>2</sub> Nanoparticles with Conductive and UV-Shielding Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4242-4251.	3.1	21
26	Nanostructuring via Solvent Vapor Exposure of Poly(2-vinyl pyridine- <i>b</i> -methyl methacrylate) Nanocomposites Using Modified Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14343-14347.	3.1	19
27	Semi-paracrystallinity in semi-conducting polymers. <i>Materials Horizons</i> , 2022, 9, 1196-1206.	12.2	18
28	Thermoresponsive inorganic/organic hybrids based on conductive TiO <sub>2</sub> nanoparticles embedded in poly(styrene- <i>b</i> -ethylene oxide) block copolymer dispersed liquid crystals. <i>Acta Materialia</i> , 2009, 57, 4624-4631.	7.9	17
29	Transparent nanostructured cellulose acetate films based on the self assembly of PEO- <i>b</i> -PPO- <i>b</i> -PEO block copolymer. <i>Carbohydrate Polymers</i> , 2017, 165, 437-443.	10.2	17
30	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.	3.1	16
31	New electroactive macromonomers and multi-responsive PEDOT graft copolymers. <i>Polymer Chemistry</i> , 2018, 9, 3780-3790.	3.9	15
32	Flexible photochromic cellulose triacetate based bionanocomposites modified with sol-gel synthesized V2O5 nanoparticles. <i>Carbohydrate Polymers</i> , 2019, 208, 50-58.	10.2	15
33	Improvement of macroscale properties of TiO <sub>2</sub> /cellulose acetate hybrid films by solvent vapour annealing. <i>Carbohydrate Polymers</i> , 2020, 231, 115683.	10.2	14
34	Quantitative nanomechanical property mapping of epoxy thermosetting system modified with poly(ethylene oxide- <i>b</i> -propylene oxide- <i>b</i> -ethylene oxide) triblock copolymer. <i>Polymer Testing</i> , 2017, 57, 38-41.	4.8	13
35	Rutile TiO <sub>2</sub> Nanoparticles Dispersed in a Self-Assembled Polystyrene- <i>b</i> -polymethyl Methacrylate Diblock Copolymer Template. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1151-1156.	3.1	12
36	Natural gum rosin thin films nanopatterned by poly(styrene)-block-poly(4-vinylpyridine) block copolymer. <i>RSC Advances</i> , 2014, 4, 32024.	3.6	11

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37	Switchable photoluminescence liquid crystal coated bacterial cellulose films with conductive response. Carbohydrate Polymers, 2016, 143, 188-197.	10.2	11
38	Cellulose Nanocrystals and Au Nanoparticles Well-Dispersed in a Poly(styrene- <i>b</i> -ethylene oxide) Block Copolymer Matrix. Journal of Physical Chemistry C, 2011, 115, 22180-22185.	3.1	10
39	Tuning photoresponsive and dielectric properties of PVA/CdSe films by capping agent change. Composites Part A: Applied Science and Manufacturing, 2019, 118, 194-201.	7.6	10
40	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.	3.6	9
41	Conductive Properties of Switchable Photoluminescence Thermosetting Systems Based on Liquid Crystals. Langmuir, 2010, 26, 4296-4302.	3.5	8
42	Conductive Properties of Photoluminescent Au/Ps- <i>b</i> -PEO Inorganic/Organic Hybrids Containing Nematic Liquid Crystals. Journal of Physical Chemistry C, 2011, 115, 1643-1648.	3.1	8
43	Thermal and optical behavior of poly(ethylene- <i>b</i> -ethylene oxide) block copolymer dispersed liquid crystals blends. European Polymer Journal, 2016, 74, 148-157.	5.4	8
44	Hybrid materials based on azopolymer and sol-gel synthesized silver-containing titanium oxide nanoparticles with photoinduced birefringence. RSC Advances, 2015, 5, 15740-15748.	3.6	7
45	Optimization of the electrospinning processing window to fabricate nanostructured PE- <i>b</i> -PEO and hybrid PE- <i>b</i> -PEO/EBBA fibers. Polymer Engineering and Science, 2017, 57, 1157-1167.	3.1	6
46	The effect of TiO <sub>2</sub> nanocrystal shape on the electrical properties of poly(styrene- <i>b</i> -methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td 2015, 184, 8-16.	5.2	5
47	Thin Film Nanocomposites Based on SBM Triblock Copolymer and Silver Nanoparticles: Morphological and Dielectric Analysis. Macromolecular Materials and Engineering, 2017, 302, 1700169.	3.6	5
48	PE- <i>b</i> -PEO block copolymer nanostructured thermosetting systems as template for TiO <sub>2</sub> nanoparticles. European Polymer Journal, 2017, 94, 87-98.	5.4	5
49	Photo-active chitosan-based hybrid films. European Polymer Journal, 2020, 122, 109373.	5.4	5
50	Effect of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles on the Cross-Linking and Final Properties of PVA/Citric Acid-Based Nanocomposites. Journal of Physical Chemistry C, 2020, 124, 5444-5451.	3.1	5
51	Conductive Properties of Inorganic/Organic Nanostructured Systems Based on Block Copolymers. Materials Science Forum, 0, 714, 153-158.	0.3	4
52	Optical reversible behavior of poly(ethylene- <i>b</i> -ethylene oxide) block copolymer dispersed liquid crystal blends. European Polymer Journal, 2017, 91, 187-196.	5.4	4
53	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.	7.8	4
54	Electrical properties of TiO <sub>2</sub> /SEO nanocomposites: From macro to nano. Electrochimica Acta, 2011, 56, 5582-5586.	5.2	3

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55	Growth of magnetic cobalt hexacyanoferrate nanoparticles onto bacterial cellulose nanofibers. Journal of Materials Science: Materials in Electronics, 2019, 30, 16956-16965.	2.2	3
56	Creating a Green Chemistry Lab: Towards Sustainable Resource Management and Responsible Purchasing. Sustainability, 2020, 12, 8934.	3.2	3
57	Multifunctional Nanostructured Composites Based on TiO <sub>2</sub> Nanoparticles. Macromolecular Symposia, 2012, 321-322, 99-104.	0.7	2
58	Nanostructured Thermoset Composites Containing Conductive TiO <sub>2</sub> Nanoparticles. Materials Science Forum, 0, 714, 147-152.	0.3	1
59	Fabrication and Characterization of Light-responsive Multilayer Films of Chitosan and Azopolymer. Materials Today: Proceedings, 2015, 2, 336-344.	1.8	0
60	Chapter 4 Block Copolymer Assisted Sol-Gel Templating. , 2016, , 111-140.		0
61	Rheology of Epoxy/Block Copolymer Blends. , 2016, , 1-24.		0
62	Rheology of Epoxy/Block-Copolymer Blends. , 2017, , 955-977.		0
63	BE SAFE AND ESCAPE THE LAB: A LEARNING EXPERIENCE FOCUSED ON LABORATORY SAFETY RULES AND HAZARDOUS WASTE MANAGEMENT. EDULEARN Proceedings, 2020, , .	0.0	0
64	Optical Properties of Vanadium Oxide/Cellulose Triacetate Photochromic Films. , 2020, 69, .		0