

Junkal Gutierrez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/264407/publications.pdf>

Version: 2024-02-01

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 | Semi-paracrystallinity in semi-conducting polymers. <i>Materials Horizons</i> , 2022, 9, 1196-1206. | 12.2 | 18 |
| 2 | 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. | 7.8 | 4 |
| 3 | Improvement of macroscale properties of TiO ₂ /cellulose acetate hybrid films by solvent vapour annealing. <i>Carbohydrate Polymers</i> , 2020, 231, 115683. | 10.2 | 14 |
| 4 | Photo-active chitosan-based hybrid films. <i>European Polymer Journal</i> , 2020, 122, 109373. | 5.4 | 5 |
| 5 | 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. | 9.1 | 47 |
| 6 | Creating a Green Chemistry Lab: Towards Sustainable Resource Management and Responsible Purchasing. <i>Sustainability</i> , 2020, 12, 8934. | 3.2 | 3 |
| 7 | 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. | 3.1 | 21 |
| 8 | 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. | 3.1 | 5 |
| 9 | BE SAFE AND ESCAPE THE LAB: A LEARNING EXPERIENCE FOCUSED ON LABORATORY SAFETY RULES AND HAZARDOUS WASTE MANAGEMENT. <i>EDULEARN Proceedings</i> , 2020, , . | 0.0 | 0 |
| 10 | Optical Properties of Vanadium Oxide/Cellulose Triacetate Photochromic Films. , 2020, 69, . | | 0 |
| 11 | Growth of magnetic cobalt hexacyanoferrate nanoparticles onto bacterial cellulose nanofibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 16956-16965. | 2.2 | 3 |
| 12 | 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. | 7.6 | 10 |
| 13 | Flexible photochromic cellulose triacetate based bionanocomposites modified with sol-gel synthesized V ₂ O ₅ nanoparticles. <i>Carbohydrate Polymers</i> , 2019, 208, 50-58. | 10.2 | 15 |
| 14 | 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. | 10.2 | 87 |
| 15 | Hydrothermal synthesis of bacterial cellulose@copper oxide nanocomposites and evaluation of their antimicrobial activity. <i>Carbohydrate Polymers</i> , 2018, 179, 341-349. | 10.2 | 94 |
| 16 | New electroactive macromonomers and multi-responsive PEDOT graft copolymers. <i>Polymer Chemistry</i> , 2018, 9, 3780-3790. | 3.9 | 15 |
| 17 | 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. | 5.2 | 74 |
| 18 | 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. | 10.2 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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, 1157-1167. | 3.1 | 6 |
| 20 | 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. | 4.8 | 13 |
| 21 | 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 |
| 22 | Optical reversible behavior of poly(ethylene-b-ethylene oxide) block copolymer dispersed liquid crystal blends. <i>European Polymer Journal</i> , 2017, 91, 187-196. | 5.4 | 4 |
| 23 | 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. | 10.2 | 40 |
| 24 | Thin Film Nanocomposites Based on SBM Triblock Copolymer and Silver Nanoparticles: Morphological and Dielectric Analysis. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700169. | 3.6 | 5 |
| 25 | PE-b-PEO block copolymer nanostructured thermosetting systems as template for TiO ₂ nanoparticles. <i>European Polymer Journal</i> , 2017, 94, 87-98. | 5.4 | 5 |
| 26 | Rheology of Epoxy/Block-Copolymer Blends. , 2017, , 955-977. | | 0 |
| 27 | Chapter 4 Block Copolymer Assisted Sol-Gel Templating. , 2016, , 111-140. | | 0 |
| 28 | A multipurpose natural and renewable polymer in medical applications: Bacterial cellulose. <i>Carbohydrate Polymers</i> , 2016, 153, 406-420. | 10.2 | 250 |
| 29 | Komagataeibacter rhaeticus as an alternative bacteria for cellulose production. <i>Carbohydrate Polymers</i> , 2016, 152, 841-849. | 10.2 | 54 |
| 30 | Switchable photoluminescence liquid crystal coated bacterial cellulose films with conductive response. <i>Carbohydrate Polymers</i> , 2016, 143, 188-197. | 10.2 | 11 |
| 31 | 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. | 5.4 | 8 |
| 32 | Rheology of Epoxy/Block Copolymer Blends. , 2016, , 1-24. | | 0 |
| 33 | 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. | 3.6 | 9 |
| 34 | Stackable, Covalently Fused Gels: Repair and Composite Formation. <i>Macromolecules</i> , 2015, 48, 1169-1178. | 4.8 | 30 |
| 35 | 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, 4142-4150. | 8.0 | 36 |
| 36 | Fabrication and Characterization of Light-responsive Multilayer Films of Chitosan and Azopolymer. <i>Materials Today: Proceedings</i> , 2015, 2, 336-344. | 1.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Biocellulose-based flexible magnetic paper. <i>Journal of Applied Physics</i> , 2015, 117, 17B734. | 2.5 | 24 |
| 38 | 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. | 3.6 | 7 |
| 39 | The effect of TiO ₂ nanocrystal shape on the electrical properties of poly(styrene- <i>b</i> -methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2015, 184, 8-16. | 5.2 | 5 |
| 40 | 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 |
| 41 | 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 |
| 42 | Multifunctional hybrid nanopapers based on bacterial cellulose and sol-gel synthesized titanium/vanadium oxide nanoparticles. <i>Cellulose</i> , 2013, 20, 1301-1311. | 4.9 | 40 |
| 43 | Rutile TiO ₂ 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 |
| 44 | Multifunctional Nanostructured Composites Based on TiO ₂ Nanoparticles. <i>Macromolecular Symposia</i> , 2012, 321-322, 99-104. | 0.7 | 2 |
| 45 | Conductive Photoswitchable Vanadium Oxide Nanopaper based on Bacterial Cellulose. <i>ChemSusChem</i> , 2012, 5, 2323-2327. | 6.8 | 37 |
| 46 | Conductive properties of TiO ₂ /bacterial cellulose hybrid fibres. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 88-93. | 9.4 | 64 |
| 47 | 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 |
| 48 | Conductive Properties of Photoluminescent Au/Ps- <i>b</i> -PEO Inorganic/Organic Hybrids Containing Nematic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1643-1648. | 3.1 | 8 |
| 49 | Cellulose Nanocrystals and Au Nanoparticles Well-Dispersed in a Poly(styrene- <i>b</i> -ethylene oxide) Block Copolymer Matrix. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22180-22185. | 3.1 | 10 |
| 50 | Morphological and optical behavior of thermoset matrix composites varying both polystyrene- <i>b</i> -poly(ethylene oxide) and TiO ₂ nanoparticle content. <i>Polymer</i> , 2011, 52, 5699-5707. | 3.8 | 27 |
| 51 | Electrical properties of TiO ₂ /SEO nanocomposites: From macro to nano. <i>Electrochimica Acta</i> , 2011, 56, 5582-5586. | 5.2 | 3 |
| 52 | Mapping of carbon nanotubes in the polystyrene domains of a polystyrene- <i>b</i> -polyisoprene- <i>b</i> -polystyrene block copolymer matrix using electrostatic force microscopy. <i>Carbon</i> , 2010, 48, 2590-2595. | 10.3 | 22 |
| 53 | Conductive Behavior of High TiO ₂ Nanoparticle Content of Inorganic/Organic Nanostructured Composites. <i>Journal of the American Chemical Society</i> , 2010, 132, 873-878. | 13.7 | 40 |
| 54 | Transparent Nanostructured Thermoset Composites Containing Well-Dispersed TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22424-22430. | 3.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Conductive Properties of Switchable Photoluminescence Thermosetting Systems Based on Liquid Crystals. <i>Langmuir</i> , 2010, 26, 4296-4302. | 3.5 | 8 |
| 56 | Thermoresponsive inorganic/organic hybrids based on conductive TiO ₂ 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 |
| 57 | Conductive Properties of Inorganic and Organic TiO ₂ /Polystyrene- <i>block</i> -Poly(ethylene oxide) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8601-8605. | 3.1 | 27 |
| 58 | Arrangement of Conductive TiO ₂ Nanoparticles in Hybrid Inorganic/Organic Thermosetting Materials Using Liquid Crystal. <i>Macromolecules</i> , 2009, 42, 3386-3390. | 4.8 | 33 |
| 59 | The effect of thermal and vapor annealing treatments on the self-assembly of TiO ₂ /PS- <i>b</i> -PMMA nanocomposites generated via the sol-gel process. <i>Nanotechnology</i> , 2009, 20, 225603. | 2.6 | 24 |
| 60 | Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 568-573. | 3.6 | 34 |
| 61 | Hybrid titanium dioxide/PS- <i>b</i> -PEO block copolymer nanocomposites based on sol-gel synthesis. <i>Nanotechnology</i> , 2008, 19, 155607. | 2.6 | 62 |
| 62 | 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 |
| 63 | Nanostructured Thermoset Composites Containing Conductive TiO ₂ Nanoparticles. <i>Materials Science Forum</i> , 0, 714, 147-152. | 0.3 | 1 |
| 64 | Conductive Properties of Inorganic/Organic Nanostructured Systems Based on Block Copolymers. <i>Materials Science Forum</i> , 0, 714, 153-158. | 0.3 | 4 |