

Enrique Gimenez

List of Publications by Year in descending order

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43
papers

1,745
citations

257429

24
h-index

265191

42
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45
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45
docs citations

45
times ranked

2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Biodegradable Nanocomposites Based on aPLA/PCL Blends for Food Packaging Applications. <i>Macromolecular Symposia</i> , 2006, 233, 191-197.	0.7	251
2	Development of EVOH-kaolinite nanocomposites. <i>Polymer</i> , 2004, 45, 5233-5238.	3.8	151
3	Synthesis and characterization of PCL-PLLA polyurethane with shape memory behavior. <i>European Polymer Journal</i> , 2013, 49, 893-903.	5.4	137
4	Phosphoric Acid Doped Polybenzimidazole (PBI)/Zeolitic Imidazolate Framework Composite Membranes with Significantly Enhanced Proton Conductivity under Low Humidity Conditions. <i>Nanomaterials</i> , 2018, 8, 775.	4.1	92
5	Morphological Alterations Induced by Temperature and Humidity in Ethylene-Vinyl Alcohol Copolymers. <i>Macromolecules</i> , 2003, 36, 9467-9476.	4.8	86
6	Electrospinning of biodegradable polylactide/hydroxyapatite nanofibers: Study on the morphology, crystallinity structure and thermal stability. <i>Polymer Degradation and Stability</i> , 2012, 97, 2052-2059.	5.8	82
7	Novel ultrathin composite membranes of Nafion/PVA for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9886-9895.	7.1	72
8	Thermally-activated shape memory effect on biodegradable nanocomposites based on PLA/PCL blend reinforced with hydroxyapatite. <i>Polymer Degradation and Stability</i> , 2018, 151, 36-51.	5.8	62
9	The effect of ultra-thin graphite on the morphology and physical properties of thermoplastic polyurethane elastomer composites. <i>Composites Science and Technology</i> , 2012, 72, 1595-1601.	7.8	55
10	Studying the degradation of polyhydroxybutyrate-co-valerate during processing with clay-based nanofillers. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3669-3676.	2.6	46
11	The effect of ethylene content on the interaction between ethylene-vinyl alcohol copolymers and water: Influence of water sorption on the mechanical properties of EVOH copolymers. <i>Polymer Testing</i> , 2006, 25, 860-867.	4.8	44
12	Mechanisms of Moisture Sorption in Barrier Polymers Used in Food Packaging: Amorphous Polyamide vs. High-Barrier Ethylene-Vinyl Alcohol Copolymer Studied by Vibrational Spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 704-713.	2.2	43
13	Mechanical and shape-memory properties of poly(mannitol sebacate)/cellulose nanocrystal nanocomposites. <i>Journal of Polymer Science Part A</i> , 2014, 52, 3123-3133.	2.3	43
14	Ionic Liquid Composite Polybenzimidazol Membranes for High Temperature PEMFC Applications. <i>Polymers</i> , 2019, 11, 732.	4.5	42
15	Proton conducting electrospun sulfonated polyether ether ketone graphene oxide composite membranes. <i>RSC Advances</i> , 2017, 7, 53481-53491.	3.6	38
16	Biodegradable nanocomposites based on poly(ester-urethane) and nanosized hydroxyapatite: Plasticant and reinforcement effects. <i>Polymer Degradation and Stability</i> , 2015, 121, 171-179.	5.8	35
17	Enhanced Conductivity of Composite Membranes Based on Sulfonated Poly(Ether Ether Ketone) (SPEEK) with Zeolitic Imidazolate Frameworks (ZIFs). <i>Nanomaterials</i> , 2018, 8, 1042.	4.1	35
18	Nanorings and rods interconnected by self-assembly mimicking an artificial network of neurons. <i>Nature Communications</i> , 2013, 4, 2648.	12.8	34

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19	Degradation of high barrier ethylene-vinyl alcohol copolymer under mild thermal-oxidative conditions studied by thermal analysis and infrared spectroscopy. <i>Polymer International</i> , 2001, 50, 635-642.	3.1	32
20	Comparative study between the microwave heating efficiency of carbon nanotubes versus multilayer graphene in polypropylene nanocomposites. <i>Composites Part B: Engineering</i> , 2016, 98, 330-338.	12.0	29
21	Gas barrier changes and morphological alterations induced by retorting in ethylene vinyl alcohol-based food packaging structures. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2192-2202.	2.6	28
22	Comparative study of nanocomposites of polyolefin compatibilizers containing kaolinite and montmorillonite organoclays. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1325-1335.	2.6	25
23	A comparative study of the mechanical, shape-memory, and degradation properties of poly(lactic acid) nanofiber and cellulose nanocrystal reinforced poly(mannitol sebacate) nanocomposites. <i>RSC Advances</i> , 2017, 7, 21869-21882.	3.6	25
24	Effect of Varying Amine Functionalities on CO ₂ Capture of Carboxylated Graphene Oxide-Based Cryogels. <i>Nanomaterials</i> , 2020, 10, 1446.	4.1	25
25	Proton Conductivity through Polybenzimidazole Composite Membranes Containing Silica Nanofiber. <i>Mats. Polymers</i> , 2019, 11, 1182.	4.5	24
26	The influence of injection molding parameters on electrical properties of PC/ABS/MWCNT nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2152-2158.	2.6	21
27	Dispersion and characterization of thermoplastic polyurethane/multiwalled carbon nanotubes by melt mixing. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3744-3750.	2.6	18
28	The Effect of Solvothermal Conditions on the Properties of Three-Dimensional N-Doped Graphene Aerogels. <i>Nanomaterials</i> , 2019, 9, 350.	4.1	18
29	Microwave heating of polymers: Influence of carbon nanotubes dispersion on the microwave susceptor effectiveness. <i>Polymer Engineering and Science</i> , 2016, 56, 1321-1329.	3.1	17
30	Development and characterization of unmodified kaolinite/EVOH nanocomposites by melt compounding. <i>Applied Clay Science</i> , 2017, 135, 300-306.	5.2	16
31	Preparation and characterization of extruded nanocomposite based on polycarbonate/butadiene-acrylonitrile-styrene blend filled with multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	15
32	Morphology, thermal, and electrical properties of polypropylene hybrid composites co-filled with multiwalled carbon nanotubes and graphene nanoplatelets. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	14
33	Mechanical properties and degradation studies of poly(mannitol sebacate)/cellulose nanocrystals nanocomposites. <i>RSC Advances</i> , 2015, 5, 55879-55891.	3.6	14
34	Thermal and electrical conductivity of melt mixed polycarbonate hybrid composites co-filled with multiwalled carbon nanotubes and graphene nanoplatelets. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	11
35	Enhanced Conductivity for Carbon Nanotube Based Materials through Supramolecular Hierarchical Self-Assembly. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701585.	3.7	11
36	Tailoring the Performance of Graphene Aerogels for Oil/Organic Solvent Separation by 1-Step Solvothermal Approach. <i>Nanomaterials</i> , 2019, 9, 1077.	4.1	11

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37	Low-Power Upconversion in Poly(Mannitol-Sebacate) Networks with Tethered Diphenylanthracene and Palladium Porphyrin. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 898-903.	3.7	10
38	Novel SPEEK-ZIF-67 Proton Exchange Nanocomposite Membrane for PEMFC Application at Intermediate Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9107-9118.	3.7	9
39	Enhanced Antibacterial Activity through Silver Nanoparticles Deposited onto Carboxylated Graphene Oxide Surface. <i>Nanomaterials</i> , 2022, 12, 1949.	4.1	8
40	Hydrothermal-Freezing-Casting of Poly(amidoamine)-Modified Graphene Aerogels towards CO ₂ Adsorption. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9333.	4.1	7
41	Morphology, mechanical performance, and nanoindentation behavior of injection molded PC/ABS/MWCNT nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	4
42	Dispersion and characterization of Thermoplastic Polyurethane/Multiwalled Carbon Nanotubes in co-rotative twin screw extruder. , 2010, , .		1
43	Diffusivity and free anion concentration of ionic liquid composite polybenzimidazole membranes. <i>RSC Advances</i> , 2021, 11, 26379-26390.	3.6	1