

AlÄ° DurmuÄ°

List of Publications by Year in descending order

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63
papers

2,442
citations

236925

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48
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63
docs citations

63
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear low density polyethylene (LLDPE)/clay nanocomposites. Part I: Structural characterization and quantifying clay dispersion by melt rheology. <i>Polymer</i> , 2007, 48, 4492-4502.	3.8	278
2	Enhanced swelling and adsorption properties of AAm–AMPSNa/clay hydrogel nanocomposites for heavy metal ion removal. <i>Polymers for Advanced Technologies</i> , 2008, 19, 213-220.	3.2	196
3	Dye removal by a novel hydrogel–clay nanocomposite with enhanced swelling properties. <i>Polymers for Advanced Technologies</i> , 2008, 19, 838-845.	3.2	186
4	Intercalated linear low density polyethylene (LLDPE)/clay nanocomposites prepared with oxidized polyethylene as a new type compatibilizer: Structural, mechanical and barrier properties. <i>European Polymer Journal</i> , 2007, 43, 3737-3749.	5.4	172
5	Synthesis and characterization of structural and magnetic properties of graphene/hard ferrite nanocomposites as microwave-absorbing material. <i>Journal of Materials Science</i> , 2015, 50, 1201-1213.	3.7	111
6	Synthesis and Characterization of Graphene Oxide/Zinc Oxide (GO/ZnO) Nanocomposite and Its Utilization for Photocatalytic Degradation of Basic Fuchsin Dye. <i>ChemistrySelect</i> , 2019, 4, 271-278.	1.5	103
7	Ductility improvements of PLA-based binary and ternary blends with controlled morphology using PBAT, PBSA, and nanoclay. <i>Composites Part B: Engineering</i> , 2020, 182, 107661.	12.0	100
8	Microwave-assisted green synthesis of silver nanoparticles from <i>Fraxinus excelsior</i> leaf extract and its antioxidant assay. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 267-276.	3.1	93
9	Thermal-catalytic degradation kinetics of polypropylene over BEA, ZSM-5 and MOR zeolites. <i>Applied Catalysis B: Environmental</i> , 2005, 61, 316-322.	20.2	79
10	Self-assembled polyelectrolyte multilayered films on Nafion with lowered methanol cross-over for DMFC applications. <i>Journal of Membrane Science</i> , 2009, 326, 643-649.	8.2	68
11	Electrochemical biosensor based on REGO/Fe ₃ O ₄ bionanocomposite interface for xanthine detection in fish sample. <i>Food Control</i> , 2015, 57, 402-410.	5.5	60
12	Mechanical Properties of Linear Low–density Polyethylene (LLDPE)/clay Nanocomposites: Estimation of Aspect Ratio and –nterfacial Strength by Composite Models. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 608-619.	1.0	49
13	Rheological behavior of cycloolefin copolymer/graphite composites. <i>Polymer Engineering and Science</i> , 2012, 52, 2645-2653.	3.1	48
14	Rheological and electrical properties of carbon black and carbon fiber filled cyclic olefin copolymer composites. <i>Composites Part B: Engineering</i> , 2014, 62, 113-120.	12.0	45
15	Effect of polyhedral oligomeric silsesquioxane (POSS) reinforced polypropylene (PP) nanocomposite on the microstructure and isothermal crystallization kinetics of polyoxymethylene (POM). <i>Polymer</i> , 2012, 53, 5347-5357.	3.8	44
16	Nonisothermal crystallization kinetics of poly(ethylene terephthalate)/clay nanocomposites prepared by melt processing. <i>Polymer Composites</i> , 2010, 31, 1056-1066.	4.6	42
17	Preparation and characterization of PLA/PBAT/CNC blend nanocomposites. <i>Colloid and Polymer Science</i> , 2021, 299, 987-998.	2.1	40
18	Effect of different types of carbon fillers on mechanical and rheological properties of cyclic olefin copolymer (COC) composites. <i>Composites Part B: Engineering</i> , 2014, 66, 126-135.	12.0	39

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19	Compositional and structural design of thermoplastic polyurethane/carbon based single and multi-layer composite sheets for high-performance X-band microwave absorbing applications. <i>Polymer</i> , 2019, 180, 121672.	3.8	39
20	Effects of filler type on the nonisothermal crystallization kinetics of poly(butylene terephthalate) (PBT) composites. <i>Journal of Applied Polymer Science</i> , 2012, 123, 77-91.	2.6	36
21	A novel approach for highly proton conductive electrolyte membranes with improved methanol barrier properties: Layer-by-Layer assembly of salt containing polyelectrolytes. <i>Journal of Membrane Science</i> , 2009, 343, 137-146.	8.2	35
22	Preparation and characterization of thermally conductive thermoplastic polyurethane/hâ€šBN nanocomposites. <i>Polymer Composites</i> , 2014, 35, 530-538.	4.6	35
23	Quantifying structural and electromagnetic interference (EMI) shielding properties of thermoplastic polyurethaneâ€“carbon nanofiber/magnetite nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 8005-8017.	3.7	34
24	Self-assembly of highly charged polyelectrolyte complexes with superior proton conductivity and methanol barrier properties for fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 703-709.	7.8	32
25	Nonisothermal crystallization kinetics and morphology of poly(ethylene terephthalate) modified with poly(lactic acid). <i>Journal of Applied Polymer Science</i> , 2007, 106, 4180-4191.	2.6	27
26	Effect of preparation method on the properties of polylactide/cellulose nanocrystal nanocomposites. <i>Polymer Composites</i> , 2020, 41, 4170-4180.	4.6	27
27	Preparation and characterization of platinum (Pt) and palladium (Pd) nanoparticle decorated graphene sheets and their utilization for the elimination of basic fuchsin and indigo carmine dyes. <i>Solid State Sciences</i> , 2016, 51, 51-58.	3.2	26
28	Comparing of melt blending and solution mixing methods on the physical properties of thermoplastic polyurethane/organoclay nanocomposite films. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 950-970.	4.2	26
29	Effect of nucleating agent on the nonisothermal crystallization kinetics of glass fiberâ€“and mineralâ€“filled polyamideâ€“6 composites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E268.	2.6	25
30	Effect of Wood-derived Charcoal Content on Properties of Wood Plastic Composites. <i>Materials Research</i> , 2015, 18, 654-659.	1.3	24
31	Effects of additives on non-isothermal crystallization kinetics and morphology of isotactic polypropylene. <i>Journal of Polymer Research</i> , 2009, 16, 489-498.	2.4	23
32	Isothermal crystallization kinetics of glass fiber and mineral-filled polyamide 6 composites. <i>Journal of Materials Science</i> , 2012, 47, 3052-3063.	3.7	22
33	Development of CNC-reinforced PBAT nanocomposites with reduced percolation threshold: a comparative study on the preparation method. <i>Journal of Materials Science</i> , 2020, 55, 15523-15537.	3.7	22
34	Effects of Halloysite Nanotube on the Mechanical Properties and Nonisothermal Crystallization Kinetics of Poly(Butylene Terephthalate) (PBT). <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 860-879.	1.0	20
35	Quantifying microstructure, electrical and mechanical properties of carbon fiber and expanded graphite filled cyclic olefin copolymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 60, 44-51.	7.6	20
36	Quantifying microstructural, thermal, mechanical and solid-state viscoelastic properties of polyolefin blend type thermoplastic elastomer compounds. <i>Polymer</i> , 2018, 142, 267-276.	3.8	19

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37	Effect of processing method on microstructure, electrical conductivity and electromagnetic wave interference (EMI) shielding performance of carbon nanofiber filled thermoplastic polyurethane composites. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	18
38	Investigation of thermal, rheological, and physical properties of amorphous poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td 2490-2501.	2.6	17
39	Quantifying effect of inorganic filler geometry on the structural, rheological and viscoelastic properties of polypropylene-based thermoplastic elastomers. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	17
40	Synthesis and micro-structural characterization of graphene/strontium hexaferrite (SrFe12O19) nanocomposites. <i>Materials Chemistry and Physics</i> , 2015, 163, 439-445.	4.0	15
41	Influence of ZIF-95 on structure and gas separation properties of polyimide-based mixed matrix membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 91, 103941.	4.4	15
42	Structural and mechanical properties of a giomer-based bulk fill restorative in different curing conditions. <i>Journal of Applied Oral Science</i> , 2018, 26, e20160662.	1.8	12
43	Rheological and mechanical properties of cycloolefin copolymer/organoclay nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1329-1341.	3.1	9
44	Investigation of morphological, rheological, and mechanical properties of cyclic olefin copolymer/poly(ethylene-co-vinyl acetate) blend films. <i>Journal of Plastic Film and Sheeting</i> , 2018, 34, 140-159.	2.2	9
45	Effects of various polyolefin copolymers on the interfacial interaction, microstructure and physical properties of cyclic olefin copolymer(COC)/graphite composites. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	8
46	Effects of size and shape originated synergism of carbon nano fillers on the electrical and mechanical properties of conductive polymer composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	8
47	Fabrication of photo-crosslinked polyethyleneimine-based barriers for CO ₂ capture. <i>Polymers for Advanced Technologies</i> , 2015, 26, 1053-1058.	3.2	8
48	Properties of Biocomposite Films From PLA and Thermally Treated Wood Modified with Silver Nanoparticles Using Leaf Extracts of Oriental Sweetgum. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2409-2420.	5.0	7
49	Polymerization characteristics of colored compomers cured with different LED units. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2019, 17, 228080001982780.	1.6	6
50	Microcellular foaming behavior of ether- and ester-based TPUs blown with supercritical CO ₂ . <i>Journal of Polymer Engineering</i> , 2020, 40, 561-571.	1.4	6
51	Quantifying Structural and Solid-State Viscoelastic Properties of Poly(propylene) (PP)/Poly(oxymethylene) (POM) Blend Films. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1402-1414.	3.6	5
52	Effect of the comonomer content on the solid-state mechanical and viscoelastic properties of poly(propylene-co-butene) films. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46350.	2.6	5
53	Quantifying effects of compositional variations on microstructural properties of polypropylene-wood fiber composites by melt rheology and tensile test data. <i>Journal of Composite Materials</i> , 2019, 53, 503-514.	2.4	5
54	Structurally Enhanced Hydrogel Nanocomposites with Improved Swelling and Mechanical Properties. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 92-99.	2.2	4

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55	Investigation of rheological behaviors of polyolefin blend type thermoplastic elastomers for quantifying microstructure-property relationships. Korea Australia Rheology Journal, 2019, 31, 97-110.	1.7	4
56	Cyclic olefin copolymer (COC)-metal organic framework (MOF) mixed matrix membranes (MMMs) for H ₂ /CO ₂ separation. Journal of Natural Gas Science and Engineering, 2021, 95, 104155.	4.4	4
57	The effect of carbon nanotubes loading and processing parameters on the electrical, mechanical, and viscoelastic properties of epoxy-based composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	4
58	Effects of electrical aging on the structural and physicochemical properties of crosslinked polyethylene (XLPE) cable insulation material. Engineering Research Express, 2022, 4, 015038.	1.6	4
59	Effects of liquid crystal polymer and organoclay addition on the physical properties of high-density polyethylene films. Polymer Engineering and Science, 2019, 59, 1344-1353.	3.1	2
60	Structure-property relationships and constitutive viscoelastic behaviors of polyether block amide elastomers in melt and solid states. Journal of Applied Polymer Science, 2022, 139, .	2.6	2
61	Free-radical Reactions and Thermal Effects in PE during Pipe Extrusion. International Polymer Processing, 2002, 17, 333-338.	0.5	1
62	Investigation of Dielectric Properties of Polyethylene-Clay Nanocomposites for Quantifying Nanofiller Dispersion. Pormime, 2018, 42, 769-775.	0.2	1
63	Influence of Lubricant Inclusion on the Rheological Behaviour and Residence Time Distribution of Ethylene Vinyl Acetate Copolymer during Single Screw Extrusion. Acta Physica Polonica A, 2019, 135, 862-864.	0.5	1