

# Suprakas Sinha Ray

## List of Publications by Year in descending order

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527  
papers

27,929  
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9786

73  
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153  
g-index

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all docs

575  
docs citations

575  
times ranked

20227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer/layered silicate nanocomposites: a review from preparation to processing. Progress in Polymer Science, 2003, 28, 1539-1641.	24.7	6,062
2	Biodegradable polymers and their layered silicate nanocomposites: In greening the 21st century materials world. Progress in Materials Science, 2005, 50, 962-1079.	32.8	1,417
3	Structure-Property Relationship in Biodegradable Poly(butylene succinate)/Layered Silicate Nanocomposites. Macromolecules, 2003, 36, 2355-2367.	4.8	590
4	New polylactide-layered silicate nanocomposites. 2. Concurrent improvements of material properties, biodegradability and melt rheology. Polymer, 2003, 44, 857-866.	3.8	518
5	New Polylactide/Layered Silicate Nanocomposites. 1. Preparation, Characterization, and Properties. Macromolecules, 2002, 35, 3104-3110.	4.8	475
6	New Polylactide/Layered Silicate Nanocomposites. 3. High-Performance Biodegradable Materials. Chemistry of Materials, 2003, 15, 1456-1465.	6.7	443
7	Poly(lactide)-Layered Silicate Nanocomposite: A Novel Biodegradable Material. Nano Letters, 2002, 2, 1093-1096.	9.1	428
8	Biodegradable Polylactide and Its Nanocomposites: Opening a New Dimension for Plastics and Composites. Macromolecular Rapid Communications, 2003, 24, 815-840.	3.9	416
9	Crystallization Behavior and Morphology of Biodegradable Polylactide/Layered Silicate Nanocomposite. Macromolecules, 2003, 36, 7126-7131.	4.8	399
10	Role of organically modified layered silicate as an active interfacial modifier in immiscible polystyrene/polypropylene blends. Polymer, 2004, 45, 8403-8413.	3.8	399
11	Recent Progress in Synthesis and Evaluation of Polymer-Montmorillonite Nanocomposites. Advances in Polymer Science, 2001, , 167-221.	0.8	393
12	Recent advances in carbon nanomaterial-based adsorbents for water purification. Coordination Chemistry Reviews, 2020, 405, 213111.	18.8	329
13	New polylactide/layered silicate nanocomposites. 5. Designing of materials with desired properties. Polymer, 2003, 44, 6633-6646.	3.8	278
14	Recent progress on natural fiber hybrid composites for advanced applications: A review. EXPRESS Polymer Letters, 2019, 13, 159-198.	2.1	276
15	V-amylose Structural Characteristics, Methods of Preparation, Significance, and Potential Applications. Food Reviews International, 2012, 28, 412-438.	8.4	223
16	Toughening of Biodegradable Polylactide/Poly(butylene succinate-co-adipate) Blends via in Situ Reactive Compatibilization. ACS Applied Materials & Interfaces, 2013, 5, 4266-4276.	8.0	222
17	Preparation and characterization of nano-cellulose with new shape from different precursor. Carbohydrate Polymers, 2013, 98, 562-567.	10.2	215
18	Polylactide-Based Bionanocomposites: A Promising Class of Hybrid Materials. Accounts of Chemical Research, 2012, 45, 1710-1720.	15.6	189

#	ARTICLE	IF	CITATIONS
19	Processing strategies in bionanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1543-1589.	24.7	186
20	New Poly(lactide)/Layered Silicate Nanocomposites, 6. <i>Macromolecular Materials and Engineering</i> , 2003, 288, 936-944.	3.6	183
21	Well-Controlled Biodegradable Nanocomposite Foams: From Microcellular to Nanocellular. <i>Macromolecular Rapid Communications</i> , 2003, 24, 457-461.	3.9	182
22	Ultra-high sensitive and selective H <sub>2</sub> gas sensor manifested by interface of nâ€“n heterostructure of CeO <sub>2</sub> -SnO <sub>2</sub> nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 984-995.	7.8	175
23	Control of Biodegradability of Poly(lactide) via Nanocomposite Technology. <i>Macromolecular Materials and Engineering</i> , 2003, 288, 203-208.	3.6	165
24	Synthesis of co-polymer-grafted gum karaya and silica hybrid organicâ€“inorganic hydrogel nanocomposite for the highly effective removal of methylene blue. <i>Chemical Engineering Journal</i> , 2015, 279, 166-179.	12.7	165
25	Effect of Organic Modification on the Compatibilization Efficiency of Clay in an Immiscible Polymer Blend. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1639-1646.	3.9	155
26	New poly(butylene succinate)/layered silicate nanocomposites. II. Effect of organically modified layered silicates on structure, properties, melt rheology, and biodegradability. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 3160-3172.	2.1	154
27	New Poly(lactide)/Layered Silicate Nanocomposite: Nanoscale Control Over Multiple Properties. <i>Macromolecular Rapid Communications</i> , 2002, 23, 943-947.	3.9	153
28	Microwave-assisted synthesis, characterization and antibacterial activity of Ag/ZnO nanoparticles supported bentonite clay. <i>Journal of Hazardous Materials</i> , 2013, 262, 439-446.	12.4	152
29	Selective removal of toxic Cr(VI) from aqueous solution by adsorption combined with reduction at a magnetic nanocomposite surface. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 214-228.	9.4	152
30	Super toughened biodegradable poly(lactide) blends with non-linear copolymer interfacial architecture obtained via facile in-situ reactive compatibilization. <i>Polymer</i> , 2015, 80, 1-17.	3.8	149
31	Recent progress in the structural modification of chitosan for applications in diversified biomedical fields. <i>European Polymer Journal</i> , 2018, 109, 402-434.	5.4	147
32	Top-down synthesis of graphene: A comprehensive review. <i>FlatChem</i> , 2021, 27, 100224.	5.6	143
33	Compatibilization Efficiency of Organoclay in an Immiscible Polycarbonate/Poly(methyl methacrylate) Blend. <i>Macromolecular Rapid Communications</i> , 2005, 26, 450-455.	3.9	142
34	Nitrogen-doped carbon nanotubes as a metal catalyst support. <i>Applied Nanoscience (Switzerland)</i> , 2011, 1, 67-77.	3.1	142
35	Adsorption of methyl violet from aqueous solution using gum xanthan/Fe <sub>3</sub> O <sub>4</sub> based nanocomposite hydrogel. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 1-11.	7.5	141
36	Water-dispersible conducting nanocomposites of polyaniline and poly(N-vinylcarbazole) with nanodimensional zirconium dioxide. <i>Synthetic Metals</i> , 2000, 108, 231-236.	3.9	140

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37	Celluloseâ€“polymerâ€“Ag nanocomposite fibers for antibacterial fabrics/skin scaffolds. Carbohydrate Polymers, 2013, 93, 553-560.	10.2	133
38	Efficient Removal of Pb(II) and Cd(II) from Industrial Mine Water by a Hierarchical MoS <sub>2</sub> /SH-MWCNT Nanocomposite. ACS Omega, 2019, 4, 13922-13935.	3.5	133
39	Structure and Properties of Nanocomposites Based on Poly(butylene succinate-co-adipate) and Organically Modified Montmorillonite. Macromolecular Materials and Engineering, 2005, 290, 759-768.	3.6	127
40	Role of Specific Interfacial Area in Controlling Properties of Immiscible Blends of Biodegradable Polylactide and Poly[(butylene succinate)-co-adipate]. ACS Applied Materials & Interfaces, 2012, 4, 6690-6701.	8.0	125
41	Preparation and antibacterial activity of chitosan-based nanocomposites containing bentonite-supported silver and zinc oxide nanoparticles for water disinfection. Applied Clay Science, 2015, 114, 330-339.	5.2	120
42	Intercalated Polycarbonate/Clay Nanocomposites: Nanostructure Control and Foam Processing. Macromolecular Materials and Engineering, 2003, 288, 543-548.	3.6	119
43	A study on the adsorption of methylene blue onto gum ghatti/TiO <sub>2</sub> nanoparticles-based hydrogel nanocomposite. International Journal of Biological Macromolecules, 2016, 88, 66-80.	7.5	118
44	Shape-Selective Dependence of Room Temperature Ferromagnetism Induced by Hierarchical ZnO Nanostructures. ACS Applied Materials & Interfaces, 2014, 6, 8981-8995.	8.0	117
45	Recent Progress on Nafionâ€“Based Nanocomposite Membranes for Fuel Cell Applications. Macromolecular Materials and Engineering, 2009, 294, 719-738.	3.6	116
46	Recent Progress on the Design and Applications of Polysaccharideâ€“Based Graft Copolymer Hydrogels as Adsorbents for Wastewater Purification. Macromolecular Materials and Engineering, 2016, 301, 496-522.	3.6	114
47	The Adsorption of Pb <sup>2+</sup> and Cu <sup>2+</sup> onto Gum Ghatti-Grafted Poly(acrylamide-co-acrylonitrile) Biodegradable Hydrogel: Isotherms and Kinetic Models. Journal of Physical Chemistry B, 2015, 119, 2026-2039.	2.6	111
48	Achieving Controllable MoS <sub>2</sub> Nanostructures with Increased Interlayer Spacing for Efficient Removal of Pb(II) from Aquatic Systems. ACS Applied Materials & Interfaces, 2019, 11, 19141-19155.	8.0	109
49	Bionanocomposite Hydrogel for the Adsorption of Dye and Reusability of Generated Waste for the Photodegradation of Ciprofloxacin: A Demonstration of the Circularity Concept for Water Purification. ACS Sustainable Chemistry and Engineering, 2018, 6, 17011-17025.	6.7	108
50	Poly(butylene succinate-co-adipate)/montmorillonite nanocomposites: effect of organic modifier miscibility on structure, properties, and viscoelasticity. Polymer, 2005, 46, 12430-12439.	3.8	107
51	Biodegradable Polylactide/Montmorillonite Nanocomposites. Journal of Nanoscience and Nanotechnology, 2003, 3, 503-510.	0.9	106
52	Morphology and properties of organoclay modified polycarbonate/poly(methyl methacrylate) blend. Polymer Engineering and Science, 2006, 46, 1121-1129.	3.1	106
53	Gum karaya based hydrogel nanocomposites for the effective removal of cationic dyes from aqueous solutions. Applied Surface Science, 2016, 364, 917-930.	6.1	106
54	Effect of Nanoclay Loading on the Thermal and Mechanical Properties of Biodegradable Polylactide/Poly[(butylene succinate)-co-adipate] Blend Composites. ACS Applied Materials & Interfaces, 2012, 4, 2395-2405.	8.0	101

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55	Rheology of poly (lactic acid)-based systems. <i>Polymer Reviews</i> , 2019, 59, 465-509.	10.9	101
56	Efficient removal of rhodamine 6G dye from aqueous solution using nickel sulphide incorporated polyacrylamide grafted gum karaya bionanocomposite hydrogel. <i>RSC Advances</i> , 2016, 6, 21929-21939.	3.6	100
57	Thermodynamic properties and adsorption behaviour of hydrogel nanocomposites for cadmium removal from mine effluents. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 151-161.	5.8	99
58	Effective removal of cationic dyes from aqueous solution using gum ghatti-based biodegradable hydrogel. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 8-20.	7.5	97
59	Efficient organic dye removal from wastewater by magnetic carbonaceous adsorbent prepared from corn starch. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7119-7131.	6.7	97
60	Preparation and evaluation of composites from montmorillonite and some heterocyclic polymers. 1: Poly(N-vinylcarbazole)â€montmorillonite nanocomposite system. <i>Polymer</i> , 1998, 39, 6423-6428.	3.8	96
61	Organically Modified Layered Titanate: A New Nanofiller to Improve the Performance of Biodegradable Polylactide. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1359-1364.	3.9	92
62	Poly lactide Based Nanostructured Biomaterials and Their Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2596-2615.	0.9	91
63	Removal of naphthalene from simulated wastewater through adsorption-photodegradation by ZnO/Ag/GO nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 393-404.	5.8	89
64	New Poly(butylene succinate)/Layered Silicate Nanocomposites: Preparation and Mechanical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 171-176.	0.9	88
65	Flocculation and adsorption properties of biodegradable gum-ghatti-grafted poly(acrylamide-co-methacrylic acid) hydrogels. <i>Carbohydrate Polymers</i> , 2015, 115, 617-628.	10.2	88
66	A highly responsive NH <sub>3</sub> sensor based on Pd-loaded ZnO nanoparticles prepared via a chemical precipitation approach. <i>Scientific Reports</i> , 2019, 9, 9881.	3.3	88
67	Occurrence of amyloseâ€lipid complexes in teff and maize starch biphasic pastes. <i>Carbohydrate Polymers</i> , 2012, 90, 616-622.	10.2	86
68	Apoptotic efficacy of multifaceted biosynthesized silver nanoparticles on human adenocarcinoma cells. <i>Scientific Reports</i> , 2018, 8, 14368.	3.3	86
69	Materials Science Challenges in Skin UV Protection: A Review. <i>Photochemistry and Photobiology</i> , 2020, 96, 779-797.	2.5	84
70	Characteristics of point defects on the room temperature ferromagnetic and highly NO <sub>2</sub> selectivity gas sensing of p-type Mn <sub>3</sub> O <sub>4</sub> nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 92-107.	7.8	82
71	Novel Porous Ceramic Material via Burning of Polylactide/Layered Silicate Nanocomposite. <i>Nano Letters</i> , 2002, 2, 423-425.	9.1	79
72	Synthetic Biopolymers and Their Composites: Advantages and Limitationsâ€An Overview. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100130.	3.9	79

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73	Water dispersible conducting nanocomposites of poly(N-vinylcarbazole), polypyrrole and polyaniline with nanodimensional manganese (IV) oxide. <i>Synthetic Metals</i> , 1999, 105, 99-105.	3.9	78
74	Magnetic carbonyl iron suspension with organoclay additive and its magnetorheological properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 103-109.	4.7	74
75	Modification of gum ghatti via grafting with acrylamide and analysis of its flocculation, adsorption, and biodegradation properties. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 283-294.	7.5	74
76	Thermal and thermomechanical properties of poly[(butylene succinate)-co-adipate] nanocomposite. <i>Polymer Degradation and Stability</i> , 2007, 92, 802-812.	5.8	73
77	The quantitative analysis of nano-clay dispersion in polymer nanocomposites by small angle X-ray scattering combined with electron microscopy. <i>Polymer</i> , 2010, 51, 1437-1449.	3.8	73
78	Preparation and properties of biodegradable films from <i>Sterculia urens</i> short fiber/cellulose green composites. <i>Carbohydrate Polymers</i> , 2013, 93, 622-627.	10.2	73
79	Plastic Pollution: A Perspective on Matters Arising: Challenges and Opportunities. <i>ACS Omega</i> , 2021, 6, 19343-19355.	3.5	73
80	Structure and properties of highly toughened biodegradable polylactide/ZnO biocomposite films. <i>International Journal of Biological Macromolecules</i> , 2014, 64, 428-434.	7.5	71
81	Structure and properties of nanocomposites based on poly(butylene succinate) and organically modified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2006, 102, 777-785.	2.6	70
82	Extraction and Characterization of Natural Cellulose Fibers from Maize Tassel. <i>International Journal of Polymer Analysis and Characterization</i> , 2015, 20, 99-109.	1.9	68
83	Synthesis of Nanomaterials by Continuous-Flow Microfluidics: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1338-1363.	0.9	67
84	Recent Trends in the Microwave-Assisted Synthesis of Metal Oxide Nanoparticles Supported on Carbon Nanotubes and Their Applications. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-15.	2.7	66
85	Selective removal of Cr(VI) from aqueous solution by polypyrrole/2,5-diaminobenzene sulfonic acid composite. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 144-157.	9.4	65
86	Nanocomposites Based on Polyethylene and Polyhedral Oligomeric Silsesquioxanes, 1 “Microstructure, Thermal and Thermomechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 752-762.	3.6	64
87	Zinc Oxide Epitaxial Thin Film Deposited Over Carbon on Various Substrate by Pulsed Laser Deposition Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5602-5611.	0.9	62
88	Unique isothermal crystallization phenomenon in the ternary blends of biopolymers polylactide and poly[(butylene succinate)-co-adipate] and nano-clay. <i>Polymer</i> , 2012, 53, 505-518.	3.8	62
89	Tuning the Conductivity of Nanocomposites through Nanoparticle Migration and Interface Crossing in Immiscible Polymer Blends: A Review on Fundamental Understanding. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800431.	3.6	62
90	Nanocomposites of PEDOT:PSS with Graphene and its Derivatives for Flexible Electronic Applications: A Review. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000716.	3.6	62

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91	Recent developments in polymeric electrospun nanofibrous membranes for seawater desalination. RSC Advances, 2018, 8, 37915-37938.	3.6	61
92	Polypyrrole-Promoted rGO@MoS <sub>2</sub> Nanocomposites for Enhanced Photocatalytic Conversion of CO <sub>2</sub> and H <sub>2</sub> O to CO, CH <sub>4</sub> , and H <sub>2</sub> Products. ACS Applied Energy Materials, 2020, 3, 9897-9909.	5.1	61
93	MoS <sub>2</sub> Nanosheet/ZnS Composites for the Visible-Light-Assisted Photocatalytic Degradation of Oxytetracycline. ACS Applied Nano Materials, 2021, 4, 4721-4734.	5.0	61
94	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. Carbohydrate Polymers, 2021, 273, 118507.	10.2	60
95	Water-dispersible nanocomposites of polyaniline and montmorillonite. Journal of Applied Polymer Science, 2000, 77, 2948-2956.	2.6	59
96	Recent Trends and Future Outlooks in the Field of Clay-Containing Polymer Nanocomposites. Macromolecular Chemistry and Physics, 2014, 215, 1162-1179.	2.2	59
97	Optical and structural characterization of nickel selenide nanoparticles synthesized by simple methods. Journal of Crystal Growth, 2009, 311, 3924-3932.	1.5	58
98	Morphology and Properties of Polymer Composites Based on Biodegradable Polylactide/Poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td 865-877.	3.6	58
99	Synthesis and flocculation properties of gum ghatti and poly(acrylamide-co-acrylonitrile) based biodegradable hydrogels. Carbohydrate Polymers, 2014, 114, 321-329.	10.2	58
100	Self-Healing Polymeric Composite Material Design, Failure Analysis and Future Outlook: A Review. Polymers, 2017, 9, 535.	4.5	58
101	Dispersion of Multi-Walled Carbon Nanotubes in Biodegradable Poly(butylene succinate) Matrix. Journal of Nanoscience and Nanotechnology, 2006, 6, 2191-2195.	0.9	57
102	Effect of Organoclay on the Morphology and Properties of Poly(propylene)/Poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td 865-877.	3.6	57
103	Kinetic models for the release of the anticancer drug doxorubicin from biodegradable polylactide/metal oxide-based hybrids. International Journal of Biological Macromolecules, 2015, 72, 1301-1307.	7.5	57
104	Influence of bases on hydrothermal synthesis of titanate nanostructures. Applied Physics A: Materials Science and Processing, 2009, 94, 963-973.	2.3	56
105	Nano-biocomposites based on synthetic aliphatic polyesters and nanoclay. Progress in Materials Science, 2014, 62, 1-57.	32.8	56
106	An overview of the recent advances in polylactide-based sustainable nanocomposites. Polymer Engineering and Science, 2021, 61, 617-649.	3.1	56
107	A new possibility for microstructural investigation of clay-based polymer nanocomposite by focused ion beam tomography. Polymer, 2010, 51, 3966-3970.	3.8	55
108	Gum ghatti and poly(acrylamide-co-acrylic acid) based biodegradable hydrogel-evaluation of the flocculation and adsorption properties. Polymer Degradation and Stability, 2015, 120, 42-52.	5.8	55

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109	A novel approach to low-temperature synthesis of cubic HfO <sub>2</sub> nanostructures and their cytotoxicity. <i>Scientific Reports</i> , 2017, 7, 9351.	3.3	55
110	Inducing PLA/starch compatibility through butyl-etherification of waxy and high amylose starch. <i>Carbohydrate Polymers</i> , 2014, 112, 216-224.	10.2	54
111	Thiol-modified magnetic polypyrrole nanocomposite: An effective adsorbent for the adsorption of silver ions from aqueous solution and subsequent water disinfection by silver-laden nanocomposite. <i>Chemical Engineering Journal</i> , 2019, 360, 423-434.	12.7	54
112	Influence of nanoparticles and their selective localization on the structure and properties of polylactide-based blend nanocomposites. <i>Composites Part B: Engineering</i> , 2021, 215, 108845.	12.0	54
113	Nanoparticle-Enhanced $\beta$ -Phase Formation in Electroactive PVDF Composites: A Review of Systems for Applications in Energy Harvesting, EMI Shielding, and Membrane Technology. <i>ACS Applied Nano Materials</i> , 2022, 5, 7632-7651.	5.0	53
114	Synthesis and characterization of alginate beads encapsulated zinc oxide nanoparticles for bacteria disinfection in water. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 686-692.	9.4	52
115	Poly( $\epsilon$ -caprolactone) Nanocomposite Scaffolds for Tissue Engineering: A Brief Overview. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 535-545.	0.9	51
116	Designing SnO <sub>2</sub> Nanostructure-Based Sensors with Tailored Selectivity toward Propanol and Ethanol Vapors. <i>ACS Omega</i> , 2019, 4, 13696-13709.	3.5	50
117	Improving methane gas sensing properties of multi-walled carbon nanotubes by vanadium oxide filling. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 11-18.	7.8	49
118	Induced ferromagnetic and gas sensing properties in ZnO-nanostructures by altering defect concentration of oxygen and zinc vacancies. <i>Materials Letters</i> , 2015, 139, 475-479.	2.6	48
119	Preparation and characterization of gum karaya hydrogel nanocomposite flocculant for metal ions removal from mine effluents. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 711-724.	3.5	48
120	Highly Conductive Core-Shell Nanocomposite of Poly(vinylcarbazole)-Polypyrrole with Multiwalled Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1582-1587.	3.9	47
121	Influence of degree of intercalation on the crystal growth kinetics of poly[(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 26	5.4	47
122	A new insight into morphological, thermal, and mechanical properties of melt-processed polylactide/poly( $\epsilon$ -caprolactone) Nanocomposites. <i>Polymer Degradation and Stability</i> , 2018, 154, 84-95.	3.8	47
123	Enzymatic degradation behavior of nanoclay reinforced biodegradable PLA/PBSA blend composites. <i>International Journal of Biological Macromolecules</i> , 2015, 77, 131-142.	7.5	46
124	Kinetic release studies of nitrogen-containing bisphosphonate from gum acacia crosslinked hydrogels. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 115-123.	7.5	46
125	Foamability and Special Applications of Microcellular Thermoplastic Polymers: A Review on Recent Advances and Future Direction. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000366.	3.6	46
126	Correlating the magnetism and gas sensing properties of Mn-doped ZnO films enhanced by UV irradiation. <i>RSC Advances</i> , 2016, 6, 26227-26238.	3.6	45



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127	Effect of nanoclay on optical properties of PLA/clay composite films. <i>Polymer Testing</i> , 2014, 36, 24-31.	4.8	44
128	Mechanical, thermal, and fire properties of polylactide/starch blend/clay composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 703-712.	3.6	43
129	Defect-induced magnetism in undoped and Mn-doped wide band gap zinc oxide grown by aerosol spray pyrolysis. <i>Applied Surface Science</i> , 2014, 311, 14-26.	6.1	43
130	Hierarchically Porous Cu-, Co-, and Mn-Doped Platelet-Like ZnO Nanostructures and Their Photocatalytic Performance for Indoor Air Quality Control. <i>ACS Omega</i> , 2019, 4, 16429-16440.	3.5	42
131	Crystallization Behavior of Poly[(butylene succinate)-co-adipate] Nanocomposite. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1207-1219.	2.2	41
132	Thermal properties of poly(ethylene succinate) nanocomposite. <i>Polymer</i> , 2009, 50, 4635-4643.	3.8	41
133	Composite Films of Arabinoxylan and Fibrous Sepiolite: Morphological, Mechanical, and Barrier Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3378-3386.	8.0	40
134	Mechanical, Thermal, and Fire Properties of Biodegradable Polylactide/Boehmite Alumina Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 6083-6091.	3.7	40
135	Morphology, thermal properties and crystallization kinetics of ternary blends of the polylactide and starch biopolymers and nanoclay: The role of nanoclay hydrophobicity. <i>Polymer</i> , 2015, 71, 82-92.	3.8	40
136	Kinetically Controlled Localization of Carbon Nanotubes in Polylactide/Poly(vinylidene fluoride) Blend Nanocomposites and Their Influence on Electromagnetic Interference Shielding, Electrical Conductivity, and Rheological Properties. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19195-19207.	3.1	40
137	Photoluminescence and Hydrogen Gas-Sensing Properties of Titanium Dioxide Nanostructures Synthesized by Hydrothermal Treatments. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1656-1665.	8.0	39
138	Ionic liquid-assisted synthesis of Ag/Ag <sub>2</sub> Te nanocrystals via a hydrothermal route for enhanced photocatalytic performance. <i>New Journal of Chemistry</i> , 2017, 41, 14618-14626.	2.8	39
139	The Distribution of Nanoclay Particles at the Interface and Their Influence on the Microstructure Development and Rheological Properties of Reactively Processed Biodegradable Polylactide/Poly(butylene succinate) Blend Nanocomposites. <i>Polymers</i> , 2017, 9, 350.	4.5	39
140	Parametric Analysis of Electrical Conductivity of Polymer-Composites. <i>Polymers</i> , 2019, 11, 1250.	4.5	39
141	Environmentally friendly polymer nanocomposites. , 2013, , .		39
142	Preparation and evaluation of composites from montmorillonite and some heterocyclic polymers. II. A nanocomposite from N-vinylcarbazole and ferric chloride-impregnated montmorillonite polymerization system. <i>Journal of Applied Polymer Science</i> , 1999, 73, 2971-2976.	2.6	37
143	The effect of different clays on the structure, morphology and degradation behavior of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 3.2 37		37
144	Morphology and properties of nanostructured materials based on polypropylene/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 5.4 36 Tf 50 62		36

#	ARTICLE	IF	CITATIONS
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