

Suprakas Sinha Ray

List of Publications by Year in descending order

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527
papers

27,929
citations

9786

73
h-index

7160

153
g-index

575
all docs

575
docs citations

575
times ranked

20227
citing authors

#	ARTICLE	IF	CITATIONS
1	Foamability of multiphase polymeric materials. , 2022, , 177-208.		0
2	Foam manufacturing technologies. , 2022, , 17-35.		0
3	Degradation studies of biodegradable foams. , 2022, , 243-265.		0
4	Foamability of thermoplastics. , 2022, , 79-175.		0
5	The science behind foaming. , 2022, , 37-78.		1
6	Introduction to polymer foams and foaming. , 2022, , 1-16.		1
7	Application of Surface-Modified Electrode Materials in Wastewater Treatment. Engineering Materials, 2022, , 107-119.	0.6	0
8	Electromagnetic interference cognizance and potential of advanced polymer composites toward electromagnetic interference shielding: A review. Polymer Engineering and Science, 2022, 62, 591-621.	3.1	35
9	On energy storage capacity of conductive MXene hybrid nanoarchitectures. Journal of Energy Storage, 2022, 45, 103686.	8.1	30
10	Construction of heterojunctions CeO ₂ interfaced Nb, Sn, Ti, Mo and Zn metal oxide catalysts for photocatalytic oxidation of Î±-pinene inert C-H. Inorganic Chemistry Communication, 2022, 137, 109199.	3.9	6
11	Granular morphology, molecular structure and thermal stability of infrared heat-moisture treated maize starch with added lipids. Food Chemistry, 2022, 382, 132342.	8.2	8
12	Science and technology of polylactide. , 2022, , 31-49.		0
13	Fundamentals of polymer blend technology. , 2022, , 79-125.		1
14	Polylactide/poly(butylene succinate) blends. , 2022, , 329-351.		0
15	Mechanical models for polymer blends. , 2022, , 179-186.		0
16	Nanocellulose-Graphene Oxide-Based Nanocomposite for Adsorptive Water Treatment. Springer Series in Materials Science, 2022, , 1-53.	0.6	2
17	Synthesis, properties, advantages, and challenges of bio-based and biodegradable polymers used for the preparation of blends with polylactide. , 2022, , 51-78.		1
18	Polylactide/starch blends. , 2022, , 229-249.		0

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19	Market, current and future applications. , 2022, , 413-421.		0
20	Poly lactide/poly[(butylene succinate)-co-adipate] blends. , 2022, , 353-373.		0
21	Techniques for structural and morphological characterization of polymer blends. , 2022, , 139-177.		0
22	Terminology and dimensions of sustainability, life cycle assessment, and characteristics of sustainable polymer materials. , 2022, , 17-29.		0
23	Conclusions, challenges, and future outlook. , 2022, , 423-427.		0
24	Processing technologies for polylactide-based blends. , 2022, , 127-138.		0
25	Prospect of DFT Utilization in Polymer-Graphene Composites for Electromagnetic Interference Shielding Application: A Review. <i>Polymers</i> , 2022, 14, 704.	4.5	8
26	Effect of Borophene and Graphene on the Elastic Modulus of PEDOT:PSS Film—A Finite Element Study. <i>Condensed Matter</i> , 2022, 7, 22.	1.8	7
27	Facile scalable synthesis of graphene oxide and reduced graphene oxide: comparative investigation of different reduction methods. <i>Carbon Letters</i> , 2022, 32, 1031-1046.	5.9	11
28	Sustainability and Life Cycle Assessment of Thermoplastic Polymers for Packaging: A Review on Fundamental Principles and Applications. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	19
29	Lignin and Keratin-Based Materials in Transient Devices and Disposables: Recent Advances Toward Materials and Environmental Sustainability. <i>ACS Omega</i> , 2022, 7, 10854-10863.	3.5	8
30	Properties of thermoplastic maize starch-zein composite films prepared by extrusion process under alkaline conditions. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 443-452.	7.5	13
31	Multi-functioning of CeO ₂ -SnO ₂ heterostructure as room temperature ferromagnetism and chemiresistive sensors. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164317.	5.5	16
32	Viscoelastic, Thermal, and Mechanical Properties of Melt-Processed Poly (μ -Caprolactone) (PCL)/Hydroxyapatite (HAP) Composites. <i>Materials</i> , 2022, 15, 104.	2.9	12
33	An investigation of copper oxide-loaded reduced graphene oxide nanocomposite for energy storage applications. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	15
34	Recent developments and future perspectives of biorenewable nanocomposites for advanced applications. <i>Nanotechnology Reviews</i> , 2022, 11, 1696-1721.	5.8	11
35	Effect of boehmite alumina nanoparticles on the physical and chemical characteristics of eco-friendly sodium alginate/polyvinyl alcohol bio-nanocomposite film. <i>International Journal of Polymer Analysis and Characterization</i> , 2022, 27, 236-251.	1.9	1
36	Functionalization of 2D MoS ₂ Nanosheets with Various Metal and Metal Oxide Nanostructures: Their Properties and Application in Electrochemical Sensors. <i>Biosensors</i> , 2022, 12, 386.	4.7	18

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37	Cellulose-Based Sustainable Composites: A Review of Systems for Applications in EMI Shielding and Sensors. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	10
38	Sustainable Macromolecular Materials and Engineering. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	2
39	Layered Double Hydroxides for Sustainable Agriculture and Environment: An Overview. <i>ACS Omega</i> , 2022, 7, 20428-20440.	3.5	21
40	Nanoparticle-Enhanced β -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
41	Fabrication and Model Characterization of the Electrical Conductivity of PVA/PPy/rGO Nanocomposite. <i>Molecules</i> , 2022, 27, 3696.	3.8	9
42	Facile solvent/drying fabrication of PVA/PPy/rGO: A novel nanocomposite for energy storage applications. <i>Results in Materials</i> , 2022, 15, 100295.	1.8	6
43	Theoretical analysis of borophene for lithium ion electrode. <i>Materials Today: Proceedings</i> , 2021, 38, 485-489.	1.8	4
44	Investigation of graphene loaded polypyrrole for lithium-ion battery. <i>Materials Today: Proceedings</i> , 2021, 38, 635-638.	1.8	20
45	Rheology and foaming behaviour of styrene-ethylene-butylene-styrene nanocomposites. <i>Colloid and Polymer Science</i> , 2021, 299, 481-496.	2.1	9
46	Synthesis methods of borophene, graphene-loaded polypyrrole nanocomposites and their benefits for energy storage applications: A brief overview. <i>FlatChem</i> , 2021, 26, 100211.	5.6	33
47	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
48	An overview of the recent advances in polylactide-based sustainable nanocomposites. <i>Polymer Engineering and Science</i> , 2021, 61, 617-649.	3.1	56
49	Nanocellulosics: Benign, Sustainable, and Ubiquitous Biomaterials for Water Remediation. <i>ACS Omega</i> , 2021, 6, 4511-4526.	3.5	29
50	Influence of nucleation and growth mechanisms on the heat deflection temperature of a reactively processed polypropylene nanocomposite. <i>Polymer Engineering and Science</i> , 2021, 61, 1195-1208.	3.1	5
51	Computational Study of Graphene-Polypyrrole Composite Electrical Conductivity. <i>Nanomaterials</i> , 2021, 11, 827.	4.1	5
52	Electro-Fenton Degradation of Selected Antiretroviral Drugs Using a Low-Cost Iron-Modified Carbon-Cloth Electrode. <i>Electrocatalysis</i> , 2021, 12, 327-339.	3.0	8
53	Investigation and Modeling of the Electrical Conductivity of Graphene Nanoplatelets-Loaded Doped-Polypyrrole. <i>Polymers</i> , 2021, 13, 1034.	4.5	22
54	Electrical resistance control model for polypyrrole-graphene nanocomposite: Energy storage applications. <i>Materials Today Communications</i> , 2021, 26, 101699.	1.9	12

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55	Pathogenesis of Keratinocyte Carcinomas and the Therapeutic Potential of Medicinal Plants and Phytochemicals. <i>Molecules</i> , 2021, 26, 1979.	3.8	10
56	Iron Sulfide Functionalized Polyaniline Nanocomposite for the Removal of Eosin Y from Water: Equilibrium and Kinetic Studies. <i>Polymer Science - Series B</i> , 2021, 63, 304-313.	0.8	2
57	MoS ₂ Nanosheet/ZnS Composites for the Visible-Light-Assisted Photocatalytic Degradation of Oxytetracycline. <i>ACS Applied Nano Materials</i> , 2021, 4, 4721-4734.	5.0	61
58	Top-down synthesis of graphene: A comprehensive review. <i>FlatChem</i> , 2021, 27, 100224.	5.6	143
59	Flow Characteristics, Mechanical, Thermal, and Thermomechanical Properties, and 3D Printability of Biodegradable Polylactide Containing Boehmite at Different Loadings. <i>Polymers</i> , 2021, 13, 2019.	4.5	7
60	Structural and digestibility properties of infrared heat-moisture treated maize starch complexed with stearic acid. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 559-569.	7.5	9
61	Bismuth Molybdate Nanoplates Supported on Reduced Graphene Oxide: An Effective Nanocomposite for the Removal of Naphthalene via Adsorption-Photodegradation. <i>ACS Omega</i> , 2021, 6, 16783-16794.	3.5	22
62	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
63	Plastic Pollution: A Perspective on Matters Arising: Challenges and Opportunities. <i>ACS Omega</i> , 2021, 6, 19343-19355.	3.5	73
64	Synthetic Biopolymers and Their Composites: Advantages and Limitations—An Overview. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100130.	3.9	79
65	Morphological, Thermal, and Mechanical Properties of Electrospun Recycled Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.5	14
66	The effect of expanded graphite/clay nanoparticles on thermal, rheological, and fire-retardant properties of poly(butylene succinate). <i>Polymer Composites</i> , 2021, 42, 6370-6382.	4.6	6
67	A review on the processing-morphology-property relationship in biodegradable polymer composites containing carbon nanotubes and nanofibers. <i>Polymer Engineering and Science</i> , 2021, 61, 2719-2756.	3.1	14
68	Recent progress on 2D metal carbide/nitride (MXene) nanocomposites for lithium-based batteries. <i>FlatChem</i> , 2021, 29, 100281.	5.6	20
69	Structure-property relationship and nascent applications of thermoelectric PEDOT:PSS/carbon composites: A review. <i>Composites Communications</i> , 2021, 27, 100890.	6.3	16
70	Synthesis and characterization of gold nanoparticles biosynthesised from <i>Aspalathus linearis</i> (Burm.f.) R.Dahlgren For progressive macular hypomelanosis. <i>Journal of Herbal Medicine</i> , 2021, 29, 100481.	2.0	3
71	The effect of electrically conducting carbon materials on the conductivity and morphology of poly(vinyl butyral) and chitosan blend composite for application in anti-corrosive coatings. <i>Synthetic Metals</i> , 2021, 281, 116914.	3.9	3
72	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. <i>Carbohydrate Polymers</i> , 2021, 273, 118507.	10.2	60

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73	Comparative study of graphene-polypyrrole and borophene-polypyrrole composites: molecular dynamics modeling approach. <i>Engineering Solid Mechanics</i> , 2021, 9, 311-322.	1.2	4
74	Recent Progress in Modified Polymer-Based PPE in Fight Against COVID-19 and Beyond. <i>ACS Omega</i> , 2021, 6, 28463-28470.	3.5	11
75	Cannabidiol-Mediated Green Synthesis, Characterization, and Cytotoxicity of Metal Nanoparticles in Human Keratinocyte Cells. <i>ACS Omega</i> , 2021, 6, 29078-29090.	3.5	10
76	Dielectrorheology of Aspect-Ratio-Tailored Carbon Nanotube/Polyethylene Composites under Large Deformations: Implications for High-Temperature Dielectrics. <i>ACS Applied Nano Materials</i> , 2021, 4, 11493-11504.	5.0	11
77	Bamboos: From Bioresource to Sustainable Materials and Chemicals. <i>Sustainability</i> , 2021, 13, 12200.	3.2	14
78	Polyamidoamine-Drug Conjugates Containing Metal-Based Anticancer Compounds. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1503-1518.	3.7	6
79	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
80	Physicochemical and in vitro cytotoxicity evaluation of polymeric drugs for combination cancer therapy. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020, 69, 1134-1148.	3.4	4
81	Effect of organically modified layered double hydroxides on the properties of poly(lactic acid) composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48654.	2.6	7
82	Morphological characteristics and thermal, rheological, and mechanical properties of cellulose nanocrystals containing biodegradable poly(lactic acid)/poly(ϵ -caprolactone) blend composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48665.	2.6	14
83	Development, characterization, and <i>in vitro</i> evaluation of water soluble poloxamer/pluronic-mastic gum-acacia based wound dressing. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48728.	2.6	13
84	UV protection, tribology, and mechanical properties of ZnO containing polyamide composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48418.	2.6	9
85	Fundamentals of immiscible polymer blends. , 2020, , 65-80.		4
86	Effects associated with constituents. , 2020, , 143-159.		1
87	Processing techniques and structural and morphological characterization. , 2020, , 81-98.		0
88	Halogen-Free Flame-Retardant Polymers. <i>Springer Series in Materials Science</i> , 2020, , .	0.6	7
89	Recent advances in carbon nanomaterial-based adsorbents for water purification. <i>Coordination Chemistry Reviews</i> , 2020, 405, 213111.	18.8	329
90	Materials Science Challenges in Skin UV Protection: A Review. <i>Photochemistry and Photobiology</i> , 2020, 96, 779-797.	2.5	84

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91	Performance of bismuth-based materials for supercapacitor applications: A review. <i>Materials Today Communications</i> , 2020, 25, 101691.	1.9	29
92	Adsorption in the context of water purification. , 2020, , 67-100.		6
93	Zero-dimensional carbon nanomaterials-based adsorbents. , 2020, , 181-193.		0
94	One-dimensional carbon nanomaterials-based adsorbents. , 2020, , 195-224.		8
95	Two-dimensional carbon nanomaterials-based adsorbents. , 2020, , 225-273.		2
96	Multifunctional three-dimensional carbon nanomaterials-based adsorbents. , 2020, , 275-296.		0
97	Design of Poly(cyclotriphosphazene)-Functionalized Zirconium Phosphate Nanoplatelets To Simultaneously Enhance the Dynamic Mechanical and Flame Retardancy Properties of Polyamide 6. <i>ACS Omega</i> , 2020, 5, 13867-13877.	3.5	7
98	Regeneration and recyclability of carbon nanomaterials after adsorption. , 2020, , 349-363.		1
99	Water purification using various technologies and their advantages and disadvantages. , 2020, , 37-66.		4
100	Carbon nanomaterials: synthesis, functionalization, and properties. , 2020, , 137-179.		4
101	Biopolymer-functionalized carbon nanomaterials-based adsorbents. , 2020, , 297-326.		0
102	Carbon-based nano/micromotors for adsorption. , 2020, , 341-347.		0
103	Toxicity of carbon nanomaterials. , 2020, , 365-385.		0
104	Outlook and future research, development, and innovation directions. , 2020, , 387-392.		0
105	Statistical characterization and simulation of graphene-loaded polypyrrole composite electrical conductivity. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15788-15801.	5.8	22
106	Polypyrrole-coated gum ghatti-grafted poly(acrylamide) composite for the selective removal of hexavalent chromium from waste water. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2851-2860.	7.5	17
107	Effect of reaction parameters on the adsorption. , 2020, , 119-135.		3
108	Conducting polymer-functionalized carbon nanomaterials-based adsorbents. , 2020, , 327-340.		1

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109	Adsorption equilibrium isotherms, kinetics and thermodynamics. , 2020, , 101-118.		19
110	Classification of water contaminants. , 2020, , 11-36.		6
111	Polymer-Based Membranes and Composites for Safe, Potable, and Usable Water: A Survey of Recent Advances. Chemistry Africa, 2020, 3, 593-608.	2.4	15
112	Effect of nanofillers characteristics and their selective localization on morphology development and rheological properties of melt-processed polylactide/poly(butylene adipate-terephthalate) blend composites. Polymer Engineering and Science, 2020, 60, 2749-2760.	3.1	33
113	Foamability and Special Applications of Microcellular Thermoplastic Polymers: A Review on Recent Advances and Future Direction. Macromolecular Materials and Engineering, 2020, 305, 2000366.	3.6	46
114	Polypyrrole-Promoted rGO-MoS ₂ Nanocomposites for Enhanced Photocatalytic Conversion of CO ₂ and H ₂ O to CO, CH ₄ , and H ₂ Products. ACS Applied Energy Materials, 2020, 3, 9897-9909.	5.1	61
115	Morphology Modulated Photocatalytic Activity of CeO ₂ Nanostructures for Selective Oxidation of Biobased Alpha-Pinene to Oxygenates. ChemistrySelect, 2020, 5, 12940-12951.	1.5	9
116	Characterization of pre-gelatinized maize starch-zein blend films produced at alkaline pH. Journal of Cereal Science, 2020, 95, 103083.	3.7	14
117	Synthesis and Application of MnO ₂ /Exfoliated Graphite Electrodes for Enhanced Photoelectrochemical Degradation of Methylene Blue and Congo Red Dyes in Water. Electrocatalysis, 2020, 11, 413-421.	3.0	3
118	The Role of Two-Step Blending in the Properties of Starch/Chitin/Poly(lactic Acid) Biodegradable Composites for Biomedical Applications. Polymers, 2020, 12, 592.	4.5	14
119	Shear-Induced Carbon Nanotube Migration and Morphological Development in Poly(lactide)/Poly(vinylidene fluoride) Blend Nanocomposites and Their Impact on Dielectric Constants and Rheological Properties. Journal of Physical Chemistry C, 2020, 124, 9536-9547.	3.1	29
120	Supramolecular Poly(cyclotriphosphazene) Functionalized Graphene Oxide/Polypropylene Composites with Simultaneously Improved Thermal Stability, Flame Retardancy, and Viscoelastic Properties. Macromolecular Materials and Engineering, 2020, 305, 2000207.	3.6	9
121	Sustainable Chemicals: A Brief Survey of the Furans. Chemistry Africa, 2020, 3, 481-496.	2.4	26
122	Plastics in municipal drinking water and wastewater treatment plant effluents: challenges and opportunities for South Africa—a review. Environmental Science and Pollution Research, 2020, 27, 12953-12966.	5.3	29
123	Distribution of nanoclay in a new TPV/nanoclay composite prepared through dynamic vulcanization. Polymer Testing, 2020, 83, 106374.	4.8	14
124	Removal of Congo red from aqueous solution by adsorption using gum ghatti and acrylamide graft copolymer coated with zero valent iron. International Journal of Biological Macromolecules, 2020, 149, 21-30.	7.5	32
125	Effect of mixing conditions (dynamic process). , 2020, , 107-142.		3
126	Migration vs. properties including the hybrid effect. , 2020, , 161-208.		1

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127	Overview of nanoparticles and their surface modification. , 2020, , 29-64.		1
128	Fundamental definition and importance of nanomaterials, nanostructured, and bulk nanostructured materials. , 2020, , 15-28.		2
129	Temperature-dependent response to C ₃ H ₇ OH and C ₂ H ₅ OH vapors induced by deposition of Au nanoparticles on SnO ₂ /NiO hollow sphere-based conductometric sensors. Sensors and Actuators B: Chemical, 2020, 316, 128041.	7.8	36
130	Heterostructured CeO ₂ –M (M = Co, Cu, Mn, Fe, Ni) Oxide Nanocatalysts for the Visible-Light Photooxidation of Pinene to Aroma Oxygenates. ACS Omega, 2020, 5, 9775-9788.	3.5	30
131	Types of Flame Retardants Used for the Synthesis of Flame-Retardant Polymers. Springer Series in Materials Science, 2020, , 15-45.	0.6	1
132	Morphological, thermal, and thermomechanical properties of cellulose nanocrystals reinforced polylactide/poly [(butylene succinate)-co-adipate] blend composite foams. Functional Composite Materials, 2020, 1, .	1.4	4
133	Flame-Retardant Polyurethanes. Springer Series in Materials Science, 2020, , 47-67.	0.6	0
134	Melt-Dripping and Char Formation. Springer Series in Materials Science, 2020, , 69-82.	0.6	0
135	Polymer Nanocomposites for Fire Retardant Applications. Springer Series in Materials Science, 2020, , 83-109.	0.6	0
136	The modified logistic model for polymer-composites electrical conductivity prediction. AIP Conference Proceedings, 2020, , .	0.4	1
137	Synthesis and Fabrication of Photoactive Nanocomposites Electrodes for the Degradation of Wastewater Pollutants. Engineering Materials, 2020, , 19-38.	0.6	0
138	Synthesis of Porous Organic Polymer-Based Solid-Acid Catalysts for 5-Hydroxymethylfurfural Production from Fructose. Catalysts, 2019, 9, 656.	3.5	10
139	Designing SnO ₂ Nanostructure-Based Sensors with Tailored Selectivity toward Propanol and Ethanol Vapors. ACS Omega, 2019, 4, 13696-13709.	3.5	50
140	Cellulose Nanostructure-Based Biodegradable Nanocomposite Foams: A Brief Overview on the Recent Advancements and Perspectives. Polymers, 2019, 11, 1270.	4.5	30
141	Efficient Removal of Pb(II) and Cd(II) from Industrial Mine Water by a Hierarchical MoS ₂ /SH-MWCNT Nanocomposite. ACS Omega, 2019, 4, 13922-13935.	3.5	133
142	Fabrication of Bimetal CuFe ₂ O ₄ Oxide Redox-Active Nanocatalyst for Oxidation of Pinene to Renewable Aroma Oxygenates. Nanomaterials, 2019, 9, 1140.	4.1	17
143	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. Journal of Physical Chemistry C, 2019, 123, 19195-19207.	3.1	40
144	A highly responsive NH ₃ sensor based on Pd-loaded ZnO nanoparticles prepared via a chemical precipitation approach. Scientific Reports, 2019, 9, 9881.	3.3	88

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145	Polymer-drug conjugates containing antimalarial drugs and antibiotics. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 53, 101171.	3.0	20
146	Parametric Analysis of Electrical Conductivity of Polymer-Composites. <i>Polymers</i> , 2019, 11, 1250.	4.5	39
147	Properties and Characterization of a PLA-Chitin-Starch Biodegradable Polymer Composite. <i>Polymers</i> , 2019, 11, 1656.	4.5	35
148	Cure kinetics, morphology development, and rheology of a high-performance carbon-fiber-reinforced epoxy composite. <i>Composites Part B: Engineering</i> , 2019, 176, 107300.	12.0	32
149	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
150	Curing epoxy with polyvinylpyrrolidone (PVP) surface-functionalized NiFe ₃ -xO ₄ magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105259.	3.9	14
151	Thermal and rheological properties of polyamide 6/layered double hydroxide clay composites. <i>Polymers and Polymer Composites</i> , 2019, 27, 567-581.	1.9	6
152	Mechanism of Thermal Degradation-Induced Gel Formation in Polyamide 6/Ethylene Vinyl Alcohol Blend Nanocomposites Studied by Time-Resolved Rheology and Hyphenated Thermogravimetric Analyzer Fourier Transform Infrared Spectroscopy Mass Spectroscopy: Synergistic Role of Nanoparticles and Maleic-anhydride-Grafted Polypropylene. <i>ACS Omega</i> , 2019, 4, 9569-9582.	3.5	10
153	Thermal Stability, Pyrolysis Behavior, and Fire-Retardant Performance of Melamine Cyanurate@Poly(cyclotriphosphazene-co-4,4'-sulfonyl diphenol) Hybrid Nanosheet-Containing Polyamide 6 Composites. <i>ACS Omega</i> , 2019, 4, 9615-9628.	3.5	30
154	Achieving Controllable MoS ₂ Nanostructures with Increased Interlayer Spacing for Efficient Removal of Pb(II) from Aquatic Systems. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19141-19155.	8.0	109
155	Development of TiO ₂ -Carbon Composite Acid Catalyst for Dehydration of Fructose to 5-Hydroxymethylfurfural. <i>Catalysts</i> , 2019, 9, 126.	3.5	18
156	Nanostructured Zn-Ti layered double hydroxides with reduced photocatalytic activity for sunscreen application. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	13
157	Effects of stearic acid and irradiation alone and in combination on properties of amylose-lipid nanomaterial from high amylose maize starch. <i>Carbohydrate Polymers</i> , 2019, 212, 352-360.	10.2	14
158	Pasting properties of hydrothermally treated maize starch with added stearic acid. <i>Food Chemistry</i> , 2019, 289, 396-403.	8.2	22
159	Rheology of poly (lactic acid)-based systems. <i>Polymer Reviews</i> , 2019, 59, 465-509.	10.9	101
160	Detailed understanding on the relation of various pH and synthesis reaction times towards a prominent low temperature H ₂ S gas sensor based on ZnO nanoplatelets. <i>Results in Physics</i> , 2019, 12, 2189-2201.	4.1	22
161	Correlations between Fibre Diameter, Physical Parameters, and the Mechanical Properties of Randomly Oriented Biobased Polylactide Nanofibres. <i>Fibers and Polymers</i> , 2019, 20, 100-112.	2.1	20
162	Enhanced Thermo-Mechanical Stiffness, Thermal Stability, and Fire Retardant Performance of Surface-Modified 2D MoS ₂ Nanosheet-Reinforced Polyurethane Composites. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800562.	3.6	22

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163	Enzymatic degradation, electronic, and thermal properties of graphite and graphene oxide-filled biodegradable polylactide/poly(μ -caprolactone) blend composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47387.	2.6	7
164	Are nanoclay-containing polymer composites safe for food packaging applications? An overview. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47214.	2.6	34
165	Characteristics of point defects on the room temperature ferromagnetic and highly NO ₂ selectivity gas sensing of p-type Mn ₃ O ₄ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 92-107.	7.8	82
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