Narayan Ch Das

List of Publications by Year
in descending order

159 papers	8,210 citations	23567 58 h-index	58581 82 g-index
162 all docs	162 docs citations	162 times ranked	6703 citing authors

#	Article	IF	Citations
1	Electromagnetic interference shielding effectiveness of carbon black and carbon fibre filled EVA and NR based composites. Composites Part A: Applied Science and Manufacturing, 2000, 31, 1069-1081.	7.6	377
2	Singleâ€walled carbon nanotube/poly(methyl methacrylate) composites for electromagnetic interference shielding. Polymer Engineering and Science, 2009, 49, 1627-1634.	3.1	191
3	Preparation, development, outcomes, and application versatility of carbon fiber-based polymer composites: a review. Advanced Composites and Hybrid Materials, 2019, 2, 214-233.	21.1	189
4	Polymer Nanocomposites for Electromagnetic Interference Shielding: A Review. Journal of Nanoscience and Nanotechnology, 2018, 18, 7641-7669.	0.9	155
5	An approach to prepare mechanically robust full IPN strengthened conductive cotton fabric for high strain tolerant electromagnetic interference shielding. Chemical Engineering Journal, 2018, 344, 138-154.	12.7	151
6	Fabrication of Reduced Graphene Oxide/Silver Nanoparticles Decorated Conductive Cotton Fabric for High Performing Electromagnetic Interference Shielding and Antibacterial Application. Fibers and Polymers, 2019, 20, 1161-1171.	2.1	140
7	Electromagnetic interference shielding effectiveness of conductive carbon black and carbon fiber-filled composites based on rubber and rubber blends. Advances in Polymer Technology, 2001, 20, 226-236.	1.7	137
8	Effect of processing parameters, applied pressure and temperature on the electrical resistivity of rubber-based conductive composites. Carbon, 2002, 40, 807-816.	10.3	136
9	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. Ultrasonics Sonochemistry, 2017, 39, 577-588.	8.2	133
10	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. Composites Part B: Engineering, 2017, 119, 41-56.	12.0	132
11	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. RSC Advances, 2016, 6, 20781-20790.	3.6	126
12	An effective strategy to enhance mechanical, electrical, andÂelectromagnetic shielding effectiveness of chlorinated polyethylene-carbon nanofiber nanocomposites. Composites Part B: Engineering, 2017, 109, 155-169.	12.0	123
13	Electromagnetic interference shielding of carbon nanotube/ethylene vinyl acetate composites. Journal of Materials Science, 2008, 43, 1920-1925.	3.7	113
14	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. ACS Applied Nano Materials, 2020, 3, 11777-11790.	5.0	113
15	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteriaEscherichia coli. Nanotechnology, 2017, 28, 195501.	2.6	109
16	Investigation of electrical conductivity and electromagnetic interference shielding effectiveness of preferentially distributed conductive filler in highly flexible polymer blends nanocomposites. Composites Part A: Applied Science and Manufacturing, 2019, 118, 75-89.	7.6	109
17	Effect of axial stretching on electrical resistivity of short carbon fibre and carbon black filled conductive rubber composites. Polymer International, 2002, 51, 156-163.	3.1	104
18	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. Sensors and Actuators B: Chemical, 2018, 266, 583-593.	7.8	99

#	Article	IF	Citations
19	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. Functional Composites and Structures, 2019, 1, 022001.	3.4	99
20	Fabrication and investigation of 3D tuned PEG/PEDOT: PSS treated conductive and durable cotton fabric for superior electrical conductivity and flexible electromagnetic interference shielding. Composites Science and Technology, 2019, 181, 107682.	7.8	97
21	Thermal-air ageing treatment on mechanical, electrical, and electromagnetic interference shielding properties of lightweight carbon nanotube based polymer nanocomposites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 447-460.	7.6	95
22	Graphene based emergent nanolights: a short review on the synthesis, properties and application. Research on Chemical Intermediates, 2019, 45, 3823-3853.	2.7	94
23	A simplistic approach to green future with eco-friendly luminescent carbon dots and their application to fluorescent nano-sensor â€˜turn-offâ€™ probe for selective sensing of copper ions. Materials Science and Engineering C, 2017, 75, 1456-1464.	7.3	90
24	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. Polymer Bulletin, 2020, 77, 2923-2943.	3.3	90
25	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. ACS Applied Materials & Interfaces, 2020, 12, 51940-51951.	8.0	90
26	Prediction of electrical conductivity, double percolation limit and electromagnetic interference shielding effectiveness of copper nanowire filled flexible polymer blend nanocomposites. Composites Part B: Engineering, 2019, 164, 559-569.	12.0	89
27	Ultra-light weight, water durable and flexible highly electrical conductive polyurethane foam for superior electromagnetic interference shielding materials. Journal of Materials Science: Materials in Electronics, 2018, 29, 10177-10189.	2.2	86
28	Superior electromagnetic interference shielding effectiveness and electro-mechanical properties of EMA-IRGO nanocomposites through the in-situ reduction of GO from melt blended EMA-GO composites. Composites Part B: Engineering, 2018, 134, 46-60.	12.0	86
29	Applications of N-Doped Carbon Dots as Antimicrobial Agents, Antibiotic Carriers, and Selective Fluorescent Probes for Nitro Explosives. ACS Applied Bio Materials, 2020, 3, 8023-8031.	4.6	86
30	Electromagnetic interference shielding effectiveness of ethylene vinyl acetate based conductive composites containing carbon fillers. Journal of Applied Polymer Science, 2001, 80, 1601-1608.	2.6	85
31	A strategy to achieve enhanced electromagnetic interference shielding at low concentration with a new generation of conductive carbon black in a chlorinated polyethylene elastomeric matrix. Physical Chemistry Chemical Physics, 2016, 18, 24591-24599.	2.8	85
32	Green Reduced Graphene Oxide Toughened Semi-IPN Monolith Hydrogel as Dual Responsive Drug Release System: Rheological, Physicomechanical, and Electrical Evaluations. Journal of Physical Chemistry B, 2018, 122, 7201-7218.	2.6	85
33	Shape and Size of Highly Concentrated Micelles in CTAB/NaSal Solutions by Small Angle Neutron Scattering (SANS). Langmuir, 2012, 28, 11962-11968.	3.5	83
34	Simple Cubic Super Crystals Containing PbTe Nanocubes and Their Coreâ^'Shell Building Blocks. Journal of the American Chemical Society, 2008, 130, 15203-15209.	13.7	80
35	A Multifunctional Smart Textile Derived from Merino Wool/Nylon Polymer Nanocomposites as Next Generation Microwave Absorber and Soft Touch Sensor. ACS Applied Materials & Interfaces, 2020, 12, 17988-18001.	8.0	80
36	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle. Materials Chemistry and Physics, 2019, 237, 121860.	4.0	79

#	Article	IF	Citations
37	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. Langmuir, 2021, 37, 3508-3520.	3.5	78
38	From Ultrafine Thiolate-Capped Copper Nanoclusters toward Copper Sulfide Nanodiscs: A Thermally Activated Evolution Route. Chemistry of Materials, 2010, 22, 261-271.	6.7	77
39	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. Ultrasonics Sonochemistry, 2018, 42, 212-227.	8.2	77
40	Zinc and nitrogen ornamented bluish white luminescent carbon dots for engrossing bacteriostatic activity and Fenton based bio-sensor. Materials Science and Engineering C, 2018, 88, 115-129.	7.3	76
41	Carbon-Dots-Initiated Photopolymerization: An In Situ Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. ACS Applied Materials & Interfaces, 2021, 13, 31038-31050.	8.0	73
42	Waste chimney oil to nanolights: A low cost chemosensor for tracer metal detection in practical field and its polymer composite for multidimensional activity. Journal of Photochemistry and Photobiology B: Biology, 2018, 180, 56-67.	3.8	72
43	Carbon Nanostructures Based Mechanically Robust Conducting Cotton Fabric for Improved Electromagnetic Interference Shielding. Fibers and Polymers, 2018, 19, 1064-1073.	2.1	69
44	Polysaccharide and poly(methacrylic acid) based biodegradable elastomeric biocompatible semi-IPN hydrogel for controlled drug delivery. Materials Science and Engineering C, 2018, 92, 34-51.	7.3	69
45	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. Nanomaterials, 2021, 11, 369.	4.1	69
46	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. Cellulose, 2017, 24, 5117-5131.	4.9	68
47	Superior electromagnetic interference shielding effectiveness and low percolation threshold through the preferential distribution of carbon black in the highly flexible polymer blend composites. Polymer Composites, 2019, 40, 1404-1418.	4.6	67
48	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn â€œonâ€“offâ€“onâ€•bifunctional sensing and antibacterial activity. New Journal of Chemistry, 2019, 43, 6205-6219.	2.8	66
49	Converting waste Allium sativum peel to nitrogen and sulphur co-doped photoluminescence carbon dots for solar conversion, cell labeling, and photobleaching diligences: A path from discarded waste to value-added products. Journal of Photochemistry and Photobiology B: Biology, 2019, 197, 111545.	3.8	65
50	Biocompatible carbon dots derived from Î¹-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. International Journal of Biological Macromolecules, 2019, 132, 316-329.	7.5	65
51	Copper Nanoparticleâ€“Graphene Composite-Based Transparent Surface Coating with Antiviral Activity against Influenza Virus. ACS Applied Nano Materials, 2021, 4, 352-362.	5.0	65
52	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance. Langmuir, 2022, 38, 3936-3950.	3.5	65
53	Electrical conductivity and electromagnetic interference shielding effectiveness of polyaniline-ethylene vinyl acetate composites. Polymer International, 2005, 54, 256-259.	3.1	64
54	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. Nano Structures Nano Objects, 2018, 16, 86-95.	3.5	64

#	Article	IF	Citations
55	Starch functionalized biodegradable semi-IPN as a pH-tunable controlled release platform for memantine. International Journal of Biological Macromolecules, 2017, 95, 185-198.	7.5	63
56	Synthesis of a novel pH responsive phyllosilicate loaded polymeric hydrogel based on poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 for the sustained release of an antibiotic drug. RSC Advances, 2015, 5, 18312-18327.	3.6	62
57	Highly conductive and flexible nano-structured carbon-based polymer nanocomposites with improved electromagnetic-interference-shielding performance. Materials Research Express, 2017, 4, 105039.	1.6	62
58	Carbon Dot Cross-Linked Gelatin Nanocomposite Hydrogel for pH-Sensing and pH-Responsive Drug Delivery. ACS Biomaterials Science and Engineering, 2020, 6, 5662-5674.	5.2	62
59	Mussel inspired green synthesis of silver nanoparticles-decorated halloysite nanotube using dopamine: characterization and evaluation of its catalytic activity. Applied Nanoscience (Switzerland), 2018, 8, 173-186.	3.1	61
60	Acoustic Green Synthesis of Graphene-Gallium Nanoparticles and PEDOT:PSS Hybrid Coating for Textile To Mitigate Electromagnetic Radiation Pollution. ACS Applied Nano Materials, 2022, 5, 1644-1655.	5.0	61
61	Effect of thermal-air ageing treatment on mechanical properties and electromagnetic interference shielding effectiveness of low-cost nano-structured carbon filled chlorinated polyethylene. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 225, 140-149.	3.5	60
62	Mechanically robust conductive carbon clusters confined ethylene methyl acrylateâ€"based flexible composites for superior shielding effectiveness. Polymers for Advanced Technologies, 2018, 29, 95-110.	3.2	60
63	Microwave assisted green synthesis of Zwitterionic photolumenescent N-doped carbon dots: An efficient â€˜on-offâ€™ chemosensor for tracer Cr(+6) considering the inner filter effect and nano drug-delivery vector. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123604.	4.7	58
64	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. Nanoscale Advances, 2021, 3, 6762-6796.	4.6	57
65	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UVâ€active marker and fluorescent polymer composite. Luminescence, 2018, 33, 1136-1145.	2.9	55
66	Synergistic effect of double percolated coâ€supportive MWCNTâ€CB conductive network for highâ€performance EMI shielding application. Polymers for Advanced Technologies, 2019, 30, 1506-1517.	3.2	54
67	Synthesis of polydopamine-coated halloysite nanotube-based hydrogel for controlled release of a calcium channel blocker. RSC Advances, 2016, 6, 105350-105362.	3.6	53
68	Design of psyllium-g-poly(acrylic acid-co-sodium acrylate)/cloisite 10A semi-IPN nanocomposite hydrogel and its mechanical, rheological and controlled drug release behaviour. International Journal of Biological Macromolecules, 2018, 111, 983-998.	7.5	53
69	A facile green synthesis of amino acid boosted Ag decorated reduced graphene oxide nanocomposites and its catalytic activity towards 4-nitrophenol reduction. Surfaces and Interfaces, 2018, 13, 79-91.	3.0	53
70	Photopolymerized Thin Coating of Polypyrrole/Graphene Nanofiber/Iron Oxide onto Nonpolar Plastic for Flexible Electromagnetic Radiation Shielding, Strain Sensing, and Nonâ€Contact Heating Applications. Advanced Materials Interfaces, 2021, 8, 2101255.	3.7	53
71	In-situ synthesis of magnetic nanoparticle immobilized heterogeneous catalyst through mussel mimetic approach for the efficient removal of water pollutants. Colloids and Interface Science Communications, 2019, 33, 100218.	4.1	52
72	A facile green synthesis of silver nanoparticle-decorated hydroxyapatite for efficient catalytic activity towards 4-nitrophenol reduction. Research on Chemical Intermediates, 2018, 44, 1189-1208.	2.7	51

#	Article	IF	Citations
73	Combination effect of carbon nanofiber and ketjen carbon black hybrid nanofillers on mechanical, electrical, and electromagnetic interference shielding properties of chlorinated polyethylene nanocomposites. Composites Part B: Engineering, 2020, 197, 108071.	12.0	51
74	Strongly blue-luminescent N-doped carbogenic dots as a tracer metal sensing probe in aqueous medium and its potential activity towards in situ Ag-nanoparticle synthesis. Sensors and Actuators B: Chemical, 2017, 252, 735-746.	7.8	50
75	Recent Advances in Preparation of Porous Polymeric Membranes by Unique Techniques and Mitigation of Fouling through Surface Modification. ChemistrySelect, 2018, 3, 609-633.	1.5	49
76	Acoustic cavitation assisted destratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. Ultrasonics Sonochemistry, 2020, 60, 104797.	8.2	49
77	Advances on catalytic reduction of 4-nitrophenol by nanostructured materials as benchmark reaction. International Nano Letters, 2022, 12, 223-242.	5.0	46
78	3Dâ€Enhanced, Highâ€Performing, Superâ€hydrophobic and Electromagneticâ€Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. ChemistrySelect, 2019, 4, 11748-11754.	1.5	45
79	Electrodeposited Cu₂O Nanopetal Architecture as a Superhydrophobic and Antibacterial Surface. Langmuir, 2019, 35, 17166-17176.	3.5	45
80	Water Uptake Kinetics and Control Release of Agrochemical Fertilizers from Nanoclay-Assisted Semi-interpenetrating Sodium Acrylate-Based Hydrogel. Polymer-Plastics Technology and Engineering, 2017, 56, 744-761.	1.9	41
81	Acoustic cavitation assisted synthesis and characterization of photoluminescent carbon quantum dots for biological applications and their future prospective. Nano Structures Nano Objects, 2021, 25, 100641.	3.5	41
82	Facile preparation of lightâ€weight biodegradable and electrically conductive polymer based nanocomposites for superior electromagnetic interference shielding effectiveness. Journal of Applied Polymer Science, 2021, 138, 50514.	2.6	41
83	One-pot facile synthesis and electrochemical evaluation of selenium enriched cobalt selenide nanotube for supercapacitor application. Ceramics International, 2021, 47, 15293-15306.	4.8	41
84	Selective distribution of conductive carbonaceous inclusion in thermoplastic elastomer: A wet chemical approach of promoting dual percolation and inhibiting radiation pollution in X-band. Composites Science and Technology, 2021, 210, 108800.	7.8	40
85	A facile green synthesis of silver nanoparticles decorated silica nanocomposites using mussel inspired polydopamine chemistry and assessment its catalytic activity. Journal of Environmental Chemical Engineering, 2018, 6, 6989-7001.	6.7	38
86	Investigations on behavioral characteristics of asphalt binder with crumb rubber modification: Rheological and thermo-chemical approach. Construction and Building Materials, 2018, 181, 455-464.	7.2	38
87	Preparation and Properties of Halloysite Nanotubes/Poly(ethylene methyl acrylate)-Based Nanocomposites by Variation of Mixing Methods. Polymer-Plastics Technology and Engineering, 2018, 57, 997-1014.	1.9	37
88	An environment friendly free-standing cellulose membrane derived for catalytic reduction of 4-nitrophenol: A sustainable approach. Journal of Environmental Chemical Engineering, 2021, 9, 104596.	6.7	36
89	Effect of filler treatment and crosslinking on mechanical and dynamic mechanical properties and electrical conductivity of carbon black-filled ethylene-vinyl acetate copolymer composites. Journal of Applied Polymer Science, 2003, 90, 2073-2082.	2.6	35
90	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl) Tj ETQq0 0 0 rgBT /Overlock 10	2.4	35

#	Article	IF	Citations
91	A comparative study of physico-mechanical and electrical properties of polymer-carbon nanofiber in wet and melt mixing methods. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 245, 95-106.	3.5	33
92	Mussel-inspired Ag/poly(norepinephrine)/MnO2 heterogeneous nanocatalyst for efficient reduction of 4-nitrophenol and 4-nitroaniline: an alternative approach. Research on Chemical Intermediates, 2020, 46, 3629-3650.	2.7	33
93	Temperatureâ€Dependent Study of Catalytic Ag Nanoparticles Entrapped Resin Nanocomposite towards Reduction of 4â€Nitrophenol. ChemistrySelect, 2019, 4, 3665-3671.	1.5	32
94	Hybrid photovoltaic devices from regioregular polythiophene and ZnO nanoparticles composites. Renewable Energy, 2010, 35, 2683-2688.	8.9	30
95	Influence of interfacial roughness and the hybrid filler microstructures on the properties of ternary elastomeric composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1049-1059.	7.6	30
96	Performance prediction analyses of styrene-butadiene rubber and crumb rubber materials in asphalt road applications. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3479-3493.	3.1	30
97	Electromagnetic Interference Shielding Effectiveness of Hybrid Conductive Polymer Composite. Journal of Elastomers and Plastics, 2002, 34, 199-223.	1.5	29
98	Micro-computed tomography enhanced cross-linked carboxylated acrylonitrile butadiene rubber with the decoration of new generation conductive carbon black for high strain tolerant electromagnetic wave absorber. Materials Today Communications, 2020, 24, 100989.	1.9	29
99	Porous Graphene-based Membranes: Preparation and Properties of a Unique Two-dimensional Nanomaterial Membrane for Water Purification. Separation and Purification Reviews, 2021, 50, 262-282.	5.5	29
100	Biobased Thermoplastic Elastomer Based on an SMS Triblock Copolymer Prepared via RAFT Polymerization in Aqueous Medium. Macromolecules, 2021, 54, 1478-1488.	4.8	27
101	A journey of thermoplastic elastomer nanocomposites for electromagnetic shielding applications: from bench to transitional research. Materials Advances, 2022, 3, 2670-2691.	5.4	25
102	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. Biotechnology Advances, 2021, 53, 107843.	11.7	24
103	The photovoltaic performance of ZnO nanorods in bulk heterojunction solar cells. Journal of Renewable and Sustainable Energy, 2011, 3, 033105.	2.0	22
104	A unique Microfiltration membrane derived from the poly(ethylene-co-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (acrylate)/Pc antifouling application. Polymer Testing, 2019, 79, 106031.	4.8	22
105	Electrical conductivity and electromagnetic interference shielding effectiveness of nanoâ€structured carbon assisted poly(methyl methacrylate) nanocomposites. Polymer Engineering and Science, 2020, 60, 2414-2427.	3.1	22
106	One-Dimensional NiSeâ€“Se Hollow Nanotubular Architecture as a Binder-Free Cathode with Enhanced Redox Reactions for High-Performance Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 29302-29315.	8.0	22
107	Direct Evidence of Nucleation During the Induction Period of Polyethylene Crystallization by SAXS. Journal of Macromolecular Science - Physics, 2003, 42, 847-865.	1.0	21
108	Physicoâ€mechanical, rheological and gas barrier properties of organoclay and inorganic phyllosilicate reinforced thermoplastic films. Journal of Applied Polymer Science, 2021, 138, 49735.	2.6	21

#	Article	IF	Citations
109	Silver Nanodot Decorated Dendritic Copper Foam As a Hydrophobic and Mechano-Chemo Bactericidal Surface. Langmuir, 2021, 37, 9356-9370.	3.5	20
110	Conductive rubbers made by adding conductive carbon black to EVA, EPDM, and EVAâ€“EPDM blends. Plastics, Rubber and Composites, 2001, 30, 162-169.	2.0	19
111	Oneâ€Step Synthesis of Fluorescent Carbon Dots for Bioâ€Labeling Assay. Macromolecular Symposia, 2018, 382, 1800077.	0.7	19
112	Synthesis of hydroxyapatite nanorods and its use as a nanoreinforcement block for ethylene methacrylate copolymer matrix. Polymer Bulletin, 2019, 76, 3621-3642.	3.3	18
113	Current scenario and recent advancement of doped carbon dots: a short review scientocracy update (2013â€“2022). Carbon Letters, 2022, 32, 953-977.	5.9	18
114	Synthesis of Mussel Inspired Polydopamine Coated Halloysite Nanotubes Based Semiâ€IPN: An Approach to Fine Tuning in Drug Release and Mechanical Toughening. Macromolecular Symposia, 2018, 382, 1800076.	0.7	17
115	Chemical modification of nitrile rubber in the latex stage by functionalizing phosphorylated cardanol prepolymer: A bio-based plasticizer and a renewable resource. Journal of Elastomers and Plastics, 2019, 51, 99-129.	1.5	17
116	Impact of carbon black substitution with nanoclay on microstructure and tribological properties of ternary elastomeric composites. Materials & Design, 2011, 32, 4696-4704.	5.1	16
117	Quantitative Characterization of Vertically Aligned Multi-Walled Carbon Nanotube Arrays Using Small Angle X-Ray Scattering. Journal of Nanoscience and Nanotechnology, 2011, 11, 4995-5000.	0.9	15
118	FUNCTIONALIZATION OF ACRYLONITRILE BUTADIENE RUBBER WITH META-PENTADECENYL PHENOL, A MULTIFUNCTIONAL ADDITIVE AND A RENEWABLE RESOURCE. Rubber Chemistry and Technology, 2017, 90, 683-698.	1.2	15
119	Performance evaluation of COSMO numerical weather prediction model in prediction of OCKHI: one of the rarest very severe cyclonic storms over the Arabian Seaâ€”a case study. Natural Hazards, 2019, 96, 431-459.	3.4	14
120	Phase transited lysozyme particles and MoS2 nanosheets modified elastomer-like antibacterial and antifouling microfiltration membrane derived from poly(ethylene-co-methyl acrylate)/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Materials, 2021, 316, 110945.	4.4	14
121	Efficient synthesis of catalytic active silver nanoparticles illuminated cerium oxide nanotube: A mussel inspired approach. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100411.	2.9	14
122	Carbon Fiber-Filled Conductive Composites Based on EVA, EPDM and their Blends. Journal of Polymer Engineering, 2002, 22, .	1.4	13
123	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from Capra hircus ear cartilage. Communications Biology, 2019, 2, 146.	4.4	13
124	Characterization tools and techniques of hydrogels. , 2020, , 481-517.		13
125	Converting Polymer Trash into Treasure: An Approach to Prepare MoS₂ Nanosheets Decorated PVDF Sponge for Oil/Water Separation and Antibacterial Applications. Industrial & Engineering Chemistry Research, 2020, 59, 20141-20154.	3.7	13
126	Silane functionalization of sodium montmorillonite and halloysite (HNT) nanoclays by â€˜grafting toâ€™ method to improve physico-mechanical and barrier properties of LLDPE/clay nanocomposites. Polymer Bulletin, 2023, 80, 4307-4335.	3.3	13

#	Article	IF	Citations
127	Nucleation and size distribution of nucleus during induction period of polyethylene crystallization. Journal of Chemical Physics, 2005, 123, 204906.	3.0	12
128	Nano to microblend formation in poly(ethylene-co-methyl acrylate)/ poly(vinylidene fluoride) blend and investigation of its anomalies in rheological properties. Nano Structures Nano Objects, 2020, 23, 100487.	3.5	12
129	A comparison on self-seeding and isothermal crystallization of polyethylene in solution using small angle neutron scattering. Polymer, 2015, 61, 192-197.	3.8	11
130	Phase behaviour and separation kinetics of polymer blends. Journal of Microscopy, 2014, 253, 198-203.	1.8	10
131	Selective cross-linking of carboxylated acrylonitrile butadiene rubber and study of their technological compatibility with poly(ethylene-co-methyl acrlylate) by means of mechanical, thermal, and chemical analysis. Polymer Bulletin, 2019, 76, 1877-1897.	3.3	10
132	Biocompatible N-doped carbon dots for the eradication of methicillin-resistant S. aureus (MRSA) and sensitive analysis for europium (III). Nano Structures Nano Objects, 2021, 26, 100724.	3.5	10
133	Chlorosulphonated Polyethylene and Its Composites for Electronic Applications. Springer Series on Polymer and Composite Materials, 2016, , 229-259.	0.7	10
134	Rheology and microstructures formation of immiscible model polymer blends under steady state and transient flows. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3519-3533.	2.1	9
135	Gradient crystallinity and its influence on the poly(vinylidene fluoride)/poly(methyl methacrylate) membraneâ€derived by immersion precipitation method. Journal of Applied Polymer Science, 2020, 137, 48677.	2.6	9
136	Nanoreinforcement mechanism of organomodified layered silicates in EPDM/CIIR blends: experimental analysis and theoretical perspectives of static mechanical and viscoelastic behavior. Composite Interfaces, 2021, 28, 35-62.	2.3	9
137	Cardanol Functionalized Carboxylated Acrylonitrile Butadiene Rubber for Better Processability, Technical Properties and Biocompatibility. Journal of Polymers and the Environment, 2019, 27, 1878-1896.	5.0	8
138	Influence of synthetic graphite powder on tribological and thermo-mechanical properties of organic-inorganic hybrid fiber reinforced elastomer-modified phenolic resin friction composites. Composites Part C: Open Access, 2020, 2, 100018.	3.2	8
139	Onâ€demand tuned hazard free elastomeric composites: A green approach. Biopolymers, 2017, 107, e23019.	2.4	7
140	Rheological Properties of Polymerâ€“Carbon Composites. Springer Series on Polymer and Composite Materials, 2019, , 271-294.	0.7	7
141	Superior electromagnetic interference shielding effectiveness of functionalized MWCNTs filled flexible thermoplastic polymer nanocomposites. Journal of Elastomers and Plastics, 2022, 54, 975-999.	1.5	6
142	Self-Organization of Macromolecules in Novel TPU-Clay Nanocomposites. Advanced Materials Research, 0, 123-125, 435-438.	0.3	5
143	Studies on Interfacial Characteristics of Highly Dispersible Silica Reinforced Epoxidized Natural Rubber Compounds. Polymer-Plastics Technology and Engineering, 2018, 57, 1452-1462.	1.9	5
144	Preparation and characterization of a unique low-cost microfiltration membrane from a technologically compatible poly(ethylene-co-methyl acrylate)/poly(vinylidene fluoride) blend for water filtration application. Journal of Applied Polymer Science, 2019, 136, 47218.	2.6	5

#	Article	IF	Citations
145	Superior <scp>EMI</scp> shielding effectiveness with enhanced electrical conductivity at low percolation threshold of flexible novel ethylene methyl acrylate/singleâ€walled carbon nanotube nanocomposites. Polymer Engineering and Science, 2022, 62, 2047-2060.	3.1	5
146	Small angle neutron scattering and photoluminescence property of wet chemistry process synthesised ZnO nanoparticles. Journal of Experimental Nanoscience, 2010, 5, 180-187.	2.4	4
147	Influence of surface-modified nanoclay on the self-organized nanostructure of segmented polyurethane composites. Polymer International, 2011, 60, n/a-n/a.	3.1	4
148	Contribution of organomodified clay on hybrid microstructures and properties of epoxidized natural rubberâ€based nanocomposites. Polymer Engineering and Science, 2013, 53, 923-930.	3.1	4
149	INFLUENCE OF DIFFERENT SPECIFIC SURFACE AREA OF HIGHLY DISPERSIBLE SILICA AND INTERFACIAL CHARACTERISTICS OF GREEN ELASTOMER COMPOSITES. Rubber Chemistry and Technology, 2018, 91, 548-560.	1.2	4
150	PHYSICO-MECHANICAL AND DYNAMIC MECHANICAL PROPERTIES OF META-PENTADECENYL PHENOL FUNCTIONALIZED ACRYLONITRILEâ€“BUTADIENE RUBBER NANOCLAY COMPOSITES. Rubber Chemistry and Technology, 2019, 92, 496-512.	1.2	4
151	Enhancement of tribological and thermo-mechanical properties of phenolic resin friction composites by improving interactions between elastomeric phase and matrix resin. SN Applied Sciences, 2020, 2, 1.	2.9	4
152	Electrical and electronic applications of polymer-graphene composites. , 2022, , 343-377.		4
153	An assessment of a very severe cyclonic storm in the Arabian sea using the COSMO model. SN Applied Sciences, 2020, 2, 1.	2.9	2
154	The growth of organic electrode materials for energy storage applications. , 2022, , 115-144.		1
155	Conjugated polymer-based fibers: synthesis, properties, and applications. , 2022, , 1-38.		1
156	Aligned Carbon Nanotube Polymer Composites. , 2007, , .		0
157	Graphene as a reinforcement in thermoset resins. , 2022, , 317-341.		0
158	Application of DSC to Polymeric Systems. , 2019, , 153-173.		0
159	EMI Shielding Studies of Carbon Nanotube-Polymer Composites. , 2021, , 1-26.		0