Narayan Ch Das

List of Publications by Citations

157 papers	5,429 citations	44 h-index	66 g-index
162 ext. papers	6,708 ext. citations	4.7 avg, IF	6.45 L-index

#	Paper	IF	Citations
157	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	8.4	334
156	Single-walled carbon nanotube/poly(methyl methacrylate) composites for electromagnetic interference shielding. *Polymer Engineering and Science*, **2009**, 49, 1627-1634	2.3	153
155	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	1.9	126
154	Effect of processing parameters, applied pressure and temperature on the electrical resistivity of rubber-based conductive composites. *Carbon*, **2002**, 40, 807-816	10.4	123
153	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	14.7	116
152	Electromagnetic interference shielding of carbon nanotube/ethylene vinyl acetate composites. *Journal of Materials Science*, **2008**, 43, 1920-1925	4.3	106
151	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. *Ultrasonics Sonochemistry*, **2017**, 39, 577-588	8.9	101
150	Polymer Nanocomposites for Electromagnetic Interference Shielding: A Review. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 7641-7669	1.3	101
149	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. *Composites Part B: Engineering*, **2017**, 119, 41-56	10	98
148	An effective strategy to enhance mechanical, electrical, and electromagnetic shielding effectiveness of chlorinated polyethylene-carbon nanofiber nanocomposites. *Composites Part B: Engineering*, **2017**, 109, 155-169	10	98
147	Effect of axial stretching on electrical resistivity of short carbon fibre and carbon black filled conductive rubber composites. *Polymer International*, **2002**, 51, 156-163	3.3	95
146	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	89
145	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. *RSC Advances*, **2016**, 6, 20781-20790	3.7	89
144	Preparation, development, outcomes, and application versatility of carbon fiber-based polymer composites: a review. *Advanced Composites and Hybrid Materials*, **2019**, 2, 214-233	8.7	80
143	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteria Escherichia coli. *Nanotechnology*, **2017**, 28, 195501	3.4	77
142	Electromagnetic interference shielding effectiveness of ethylene vinyl acetate based conductive composites containing carbon fillers. *Journal of Applied Polymer Science*, **2001**, 80, 1601-1608	2.9	77
141	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. *Sensors and Actuators B: Chemical*, **2018**, 266, 583-593	8.5	75

140	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, 24591-9	3.6	74
139	From Ultrafine Thiolate-Capped Copper Nanoclusters toward Copper Sulfide Nanodiscs: A Thermally Activated Evolution Route. *Chemistry of Materials*, **2010**, 22, 261-271	9.6	73
138	Simple cubic super crystals containing PbTe nanocubes and their core-shell building blocks. *Journal of the American Chemical Society*, **2008**, 130, 15203-9	16.4	72
137	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	8.4	69
136	A simplistic approach to green future with eco-friendly luminescent carbon dots and their application to fluorescent nano-sensor 'turn-off' probe for selective sensing of copper ions. *Materials Science and Engineering C*, **2017**, 75, 1456-1464	8.3	67
135	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. *Functional Composites and Structures*, **2019**, 1, 022001	3.5	66
134	Shape and size of highly concentrated micelles in CTAB/NaSal solutions by Small Angle Neutron Scattering (SANS). *Langmuir*, **2012**, 28, 11962-8	4	66
133	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	2.1	65
132	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	8.4	65
131	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	8.6	62
130	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	3.4	61
129	Graphene based emergent nanolights: a short review on the synthesis, properties and application. *Research on Chemical Intermediates*, **2019**, 45, 3823-3853	2.8	60
128	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	10	60
127	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	10	59
126	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. *Cellulose*, **2017**, 24, 5117-5131	5.5	58
125	Electrical conductivity and electromagnetic interference shielding effectiveness of polyaniline□thylene vinyl acetate composites. *Polymer International*, **2005**, 54, 256-259	3.3	58
124	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. *Ultrasonics Sonochemistry*, **2018**, 42, 212-227	8.9	58
123	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	6.7	55

122	Highly conductive and flexible nano-structured carbon-based polymer nanocomposites with improved electromagnetic-interference-shielding performance. *Materials Research Express*, **2017**, 4, 105039	1.7	54
121	Carbon Nanostructures Based Mechanically Robust Conducting Cotton Fabric for Improved Electromagnetic Interference Shielding. *Fibers and Polymers*, **2018**, 19, 1064-1073	2	54
120	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	8.3	53
119	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. *Polymer Bulletin*, **2020**, 77, 2923-2943	2.4	53
118	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	9.5	50
117	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	3.3	47
116	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	4.4	47
115	Synthesis of a novel pH responsive phyllosilicate loaded polymeric hydrogel based on poly(acrylic acid-co-N-vinylpyrrolidone) and polyethylene glycol for drug delivery: modelling and kinetics study for the sustained release of an antibiotic drug. *RSC Advances*, **2015**, 5, 18312-18327	3.7	46
114	Mechanically robust conductive carbon clusters confined ethylene methyl acrylate based flexible composites for superior shielding effectiveness. *Polymers for Advanced Technologies*, **2018**, 29, 95-110	3.2	45
113	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn on off on bifunctional sensing and antibacterial activity. *New Journal of Chemistry*, **2019**, 43, 6205-6219	3.6	44
112	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	3.1	44
111	Biocompatible carbon dots derived from κ-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	7.9	43
110	Microwave assisted green synthesis of Zwitterionic photolumenescent N-doped carbon dots: An efficient on-off 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	5.1	43
109	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. *Nano Structures Nano Objects*, **2018**, 16, 86-95	5.6	43
108	Starch functionalized biodegradable semi-IPN as a pH-tunable controlled release platform for memantine. *International Journal of Biological Macromolecules*, **2017**, 95, 185-198	7.9	42
107	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. *ACS Applied Materials & Interfaces*, **2020**, 12, 51940-51951	9.5	42
106	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	6.7	42
105	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	3	41

104	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	8.3	40
103	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	8.5	38
102	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	4.1	38
101	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	2.8	38
100	Synthesis of polydopamine-coated halloysite nanotube-based hydrogel for controlled release of a calcium channel blocker. *RSC Advances*, **2016**, 6, 105350-105362	3.7	37
99	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	4.1	36
98	Synergistic effect of double percolated co-supportive MWCNT-CB conductive network for high-performance EMI shielding application. *Polymers for Advanced Technologies*, **2019**, 30, 1506-1517	3.2	35
97	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. *ACS Applied Nano Materials*, **2020**, 3, 11777-11790	5.6	35
96	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UV-active marker and fluorescent polymer composite. *Luminescence*, **2018**, 33, 1136-1145	2.5	35
95	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	5.4	35
94	Acoustic cavitation assisted destratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. *Ultrasonics Sonochemistry*, **2020**, 60, 104797	8.9	33
93	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	7.9	32
92	Recent Advances in Preparation of Porous Polymeric Membranes by Unique Techniques and Mitigation of Fouling through Surface Modification. *ChemistrySelect*, **2018**, 3, 609-633	1.8	32
91	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		31
90	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	6.8	30
89	Hybrid photovoltaic devices from regioregular polythiophene and ZnO nanoparticles composites. *Renewable Energy*, **2010**, 35, 2683-2688	8.1	29
88	Electrodeposited CuO Nanopetal Architecture as a Superhydrophobic and Antibacterial Surface. *Langmuir*, **2019**, 35, 17166-17176	4	29
87	Copper Nanoparticle□raphene Composite-Based Transparent Surface Coating with Antiviral Activity against Influenza Virus. *ACS Applied Nano Materials*, **2021**, 4, 352-362	5.6	29

86	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	8.4	28
85	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	2.9	28
84	3D-Enhanced, High-Performing, Super-hydrophobic and Electromagnetic-Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. *ChemistrySelect*, **2019**, 4, 11748-11754	1.8	27
83	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. *Langmuir*, **2021**, 37, 3508-3520	4	27
82	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		25
81	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	10	25
80	Investigations on behavioral characteristics of asphalt binder with crumb rubber modification: Rheological and thermo-chemical approach. *Construction and Building Materials*, **2018**, 181, 455-464	6.7	24
79	Electromagnetic Interference Shielding Effectiveness of Hybrid Conductive Polymer Composite. *Journal of Elastomers and Plastics*, **2002**, 34, 199-223	1.6	24
78	Carbon Dot Cross-Linked Gelatin Nanocomposite Hydrogel for pH-Sensing and pH-Responsive Drug Delivery. *ACS Biomaterials Science and Engineering*, **2020**, 6, 5662-5674	5.5	24
77	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. *Nanomaterials*, **2021**, 11,	5.4	24
76	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	3.1	23
75	Carbon-Dots-Initiated Photopolymerization: An Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. *ACS Applied Materials & Interfaces*, **2021**, 13, 31038-31050	9.5	23
74	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	2.5	21
73	Direct Evidence of Nucleation During the Induction Period of Polyethylene Crystallization by SAXS. *Journal of Macromolecular Science - Physics*, **2003**, 42, 847-865	1.4	21
72	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl acrylate) Copolymeric Thermoplastic Matrix. *Macromolecular Research*, **2019**, 27, 268-281	1.9	21
71	Facile preparation of light-weight biodegradable and electrically conductive polymer based nanocomposites for superior electromagnetic interference shielding effectiveness. *Journal of Applied Polymer Science*, **2021**, 138, 50514	2.9	19
70	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	3.4	18
69	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. *Nanoscale Advances*, **2021**,	5.1	18

68	Temperature-Dependent Study of Catalytic Ag Nanoparticles Entrapped Resin Nanocomposite towards Reduction of 4-Nitrophenol. *ChemistrySelect*, **2019**, 4, 3665-3671	1.8	16
67	A unique Microfiltration membrane derived from the poly(ethylene-co-methyl acrylate)/Poly(vinylidene fluoride) (EMA/PVDF) biphasic blends and surface modification for antifouling application. *Polymer Testing*, **2019**, 79, 106031	4.5	16
66	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	2.8	15
65	Impact of carbon black substitution with nanoclay on microstructure and tribological properties of ternary elastomeric composites. *Materials & Design*, **2011**, 32, 4696-4704		15
64	One-pot facile synthesis and electrochemical evaluation of selenium enriched cobalt selenide nanotube for supercapacitor application. *Ceramics International*, **2021**, 47, 15293-15306	5.1	15
63	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	7.3	15
62	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	5.6	15
61	The photovoltaic performance of ZnO nanorods in bulk heterojunction solar cells. *Journal of Renewable and Sustainable Energy*, **2011**, 3, 033105	2.5	14
60	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	1.3	14
59	Conductive rubbers made by adding conductive carbon black to EVA, EPDM, and EVA□EPDM blends. *Plastics, Rubber and Composites*, **2001**, 30, 162-169	1.5	14
58	Synthesis of Mussel Inspired Polydopamine Coated Halloysite Nanotubes Based Semi-IPN: An Approach to Fine Tuning in Drug Release and Mechanical Toughening. *Macromolecular Symposia*, **2018**, 382, 1800076	0.8	13
57	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	8.6	13
56	Photopolymerized Thin Coating of Polypyrrole/Graphene Nanofiber/Iron Oxide onto Nonpolar Plastic for Flexible Electromagnetic Radiation Shielding, Strain Sensing, and Non-Contact Heating Applications. *Advanced Materials Interfaces*, **2021**, 8, 2101255	4.6	12
55	Synthesis of hydroxyapatite nanorods and its use as a nanoreinforcement block for ethylene methacrylate copolymer matrix. *Polymer Bulletin*, **2019**, 76, 3621-3642	2.4	12
54	Biobased Thermoplastic Elastomer Based on an SMS Triblock Copolymer Prepared via RAFT Polymerization in Aqueous Medium. *Macromolecules*, **2021**, 54, 1478-1488	5.5	12
53	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	1.6	11
52	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	6.8	11
51	Nucleation and size distribution of nucleus during induction period of polyethylene crystallization. *Journal of Chemical Physics*, **2005**, 123, 204906	3.9	10

50	Carbon Fiber-Filled Conductive Composites Based on EVA, EPDM and their Blends. *Journal of Polymer Engineering*, **2002**, 22,	1.4	10
49	Chlorosulphonated Polyethylene and Its Composites for Electronic Applications. *Springer Series on Polymer and Composite Materials*, **2016**, 229-259	0.9	10
48	One-Step Synthesis of Fluorescent Carbon Dots for Bio-Labeling Assay. *Macromolecular Symposia*, **2018**, 382, 1800077	0.8	10
47	A comparison on self-seeding and isothermal crystallization of polyethylene in solution using small angle neutron scattering. *Polymer*, **2015**, 61, 192-197	3.9	9
46	One-Dimensional NiSe-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	9.5	9
45	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	2.4	9
44	Phase behaviour and separation kinetics of polymer blends. *Journal of Microscopy*, **2014**, 253, 198-203	1.9	9
43	Characterization tools and techniques of hydrogels **2020**, 481-517		9
42	Performance evaluation of COSMO numerical weather prediction model in prediction of OCKHI: one of the rarest very severe cyclonic storms over the Arabian Sea case study. *Natural Hazards*, **2019**, 96, 431-459	3	8
41	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	5.6	8
40	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	2.6	8
39	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	5.6	8
38	FUNCTIONALIZATION OF ACRYLONITRILE BUTADIENE RUBBER WITH META-PENTADECENYL PHENOL, A MULTIFUNCTIONAL ADDITIVE AND A RENEWABLE RESOURCE. *Rubber Chemistry and Technology*, **2017**, 90, 683-698	1.7	8
37	Electrical conductivity and electromagnetic interference shielding effectiveness of nano-structured carbon assisted poly(methyl methacrylate) nanocomposites. *Polymer Engineering and Science*, **2020**, 60, 2414-2427	2.3	8
36	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	7
35	On-demand tuned hazard free elastomeric composites: A green approach. *Biopolymers*, **2017**, 107, e23019	2.2	6
34	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from ear cartilage. *Communications Biology*, **2019**, 2, 146	6.7	6
33	Efficient synthesis of catalytic active silver nanoparticles illuminated cerium oxide nanotube: A mussel inspired approach. *Environmental Nanotechnology, Monitoring and Management*, **2021**, 15, 100411	3.3	6

32	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance.. *Langmuir*, **2022**,	4	6
31	Cardanol Functionalized Carboxylated Acrylonitrile Butadiene Rubber for Better Processability, Technical Properties and Biocompatibility. *Journal of Polymers and the Environment*, **2019**, 27, 1878-1896	4.5	5
30	Self-Organization of Macromolecules in Novel TPU-Clay Nanocomposites. *Advanced Materials Research*, **2010**, 123-125, 435-438	0.5	5
29	Advances on catalytic reduction of 4-nitrophenol by nanostructured materials as benchmark reaction. *International Nano Letters*,1	5.7	5
28	Rheological Properties of Polymer Carbon Composites. *Springer Series on Polymer and Composite Materials*, **2019**, 271-294	0.9	5
27	Gradient crystallinity and its influence on the poly(vinylidene fluoride)/poly(methyl methacrylate) membrane-derived by immersion precipitation method. *Journal of Applied Polymer Science*, **2020**, 137, 48677	2.9	5
26	Silver Nanodot Decorated Dendritic Copper Foam As a Hydrophobic and Mechano-Chemo Bactericidal Surface. *Langmuir*, **2021**, 37, 9356-9370	4	5
25	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	2.9	5
24	Contribution of organomodified clay on hybrid microstructures and properties of epoxidized natural rubber-based nanocomposites. *Polymer Engineering and Science*, **2013**, 53, 923-930	2.3	4
23	Small angle neutron scattering and photoluminescence property of wet chemistry process synthesised ZnO nanoparticles. *Journal of Experimental Nanoscience*, **2010**, 5, 180-187	1.9	4
22	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. *Biotechnology Advances*, **2021**, 53, 107843	17.8	4
21	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	3.9	4
20	Phase transited lysozyme particles and MoS2 nanosheets modified elastomer-like antibacterial and antifouling microfiltration membrane derived from poly(ethylene-co-methyl acrylate)/poly(vinylidene fluoride) (EMA/PVDF) blend for water purification application. *Microporous and Mesoporous Materials*, **2021**, 316, 110945	5.3	4
19	Studies on Interfacial Characteristics of Highly Dispersible Silica Reinforced Epoxidized Natural Rubber Compounds. *Polymer-Plastics Technology and Engineering*, **2018**, 57, 1452-1462		3
18	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	1.6	3
17	Physico-mechanical, rheological and gas barrier properties of organoclay and inorganic phyllosilicate reinforced thermoplastic films. *Journal of Applied Polymer Science*, **2021**, 138, 49735	2.9	3
16	Impact analysis of dynamical downscaling on the treatment of convection in a regional NWP model COSMO: a case study during the passage of a very severe cyclonic storm OCKHI **2018**,		3
15	PHYSICO-MECHANICAL AND DYNAMIC MECHANICAL PROPERTIES OF META-PENTADECENYL PHENOL FUNCTIONALIZED ACRYLONITRILE BUTADIENE RUBBER NANOCLAY COMPOSITES. *Rubber Chemistry and Technology*, **2019**, 92, 496-512	1.7	2

14	A journey of thermoplastic elastomer nanocomposites for the electromagnetic shielding application: from bench to transitional research. *Materials Advances*,	3.3	2
13	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	5.6	2
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11	Influence of surface-modified nanoclay on the self-organized nanostructure of segmented polyurethane composites. *Polymer International*, **2011**, 60, n/a-n/a	3.3	1
10	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	1.8	1
9	An assessment of a very severe cyclonic storm in the Arabian sea using the COSMO model. *SN Applied Sciences*, **2020**, 2, 1	1.8	1
8	Current scenario and recent advancement of doped carbon dots: a short review scientocracy update (2013–2022). *Carbon Letters*,1	2.3	1
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