Suryasarathi Bose

List of Publications by Year
in descending order

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253	9,315	47409	75989
papers	citations	49 h-index	78 g-index

256	256	256	8431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Free-standing graphene oxide membrane works in tandem with confined interfacial polymerization of polyamides towards excellent desalination and chlorine tolerance performance. Nanoscale Advances, 2022, 4, 467-478.	2.2	8
2	Distribution of Carbon Nanotubes in Polycarbonate-Based Blends for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2022, 5, 662-677.	2.4	18
3	Fe₃O₄@Ag and Ag@Fe₃O₄ Coreâ€“Shell Nanoparticles for Radiofrequency Shielding and Bactericidal Activity. ACS Applied Nano Materials, 2022, 5, 237-248.	2.4	11
4	Polydopamine Codoped BaTiO₃-Functionalized Polyvinylidene Fluoride Coating as a Piezo-Biomaterial Platform for an Enhanced Cellular Response and Bioactivity. ACS Biomaterials Science and Engineering, 2022, 8, 170-184.	2.6	9
5	Multi-layered composites using polyurethane-based foams and 3D-printed structures to curb electromagnetic pollution. Materials Advances, 2022, 3, 4578-4599.	2.6	7
6	Graphene oxide-mediated thermo-reversible bonds and in situ grown nano-rods trigger â€˜self-healableâ€™ interfaces in carbon fiber laminates. Nanoscale, 2022, 14, 9004-9020.	2.8	6
7	pH-triggered bio-inspired membranes engineered using sequential interpenetrating polymeric networks for tunable antibiotic and dye removal. Chemical Engineering Journal, 2022, 446, 136997.	6.6	14
8	Molecular sieving through 'layer-by-layer' self-assembly of polyelectrolytes and highly crosslinked graphene oxide. Functional Composite Materials, 2022, 3, .	0.9	0
9	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.	2.8	29
10	Tufting thread and density controls the mode-I fracture toughness in carbon/epoxy composite. Composite Structures, 2021, 261, 113272.	3.1	3
11	The journey of PDMS-based nanocomposites for EMI shielding applications: from bench to translational research. Materials Advances, 2021, 2, 5580-5592.	2.6	6
12	Tuning the interface in epoxy-based composites and laminates through epoxy grafted graphene oxide enhances mechanical properties. Nanoscale Advances, 2021, 3, 6739-6749.	2.2	3
13	Tuneable chemistry at the interface and self-healing towards improving structural properties of carbon fiber laminates: a critical review. Nanoscale Advances, 2021, 3, 5745-5776.	2.2	9
14	Coreâ€“Shell Nanomaterials for Microwave Absorption and Electromagnetic Interference Shielding: A Review. ACS Applied Nano Materials, 2021, 4, 949-972.	2.4	114
15	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 ETQq1 1 0.784314 rgBT /Ove Materials, 2021, 316, 110945.	2.2	14
16	Transparent Triboelectric Nanogenerator Based on Thermoplastic Polyurethane Films. Journal of Nanoscience and Nanotechnology, 2021, 21, 3072-3080.	0.9	3
17	Thin-Film Composites and Multi-Layered Membranes for Wastewater Treatment. , 2021, , 37-50.		1
18	The journey of polycarbonate-based composites towards suppressing electromagnetic radiation. Functional Composite Materials, 2021, 2, .	0.9	14

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19	Thermoreversible Bonds and Graphene Oxide Additives Enhance the Flexural and Interlaminar Shear Strength of Self-Healing Epoxy/Carbon Fiber Laminates. ACS Applied Nano Materials, 2021, 4, 6821-6831.	2.4	30
20	Dynamically crosslinked polydimethylsiloxane-based polyurethanes with contact-killing antimicrobial properties as implantable alloplasts for urological reconstruction. Acta Biomaterialia, 2021, 129, 122-137.	4.1	16
21	The Journey of Water Remediation through Biomimetic Strategies: A Mechanistic Insight. Advanced Sustainable Systems, 2021, 5, 2100213.	2.7	10
22	Conjugated Bio-Polymer Anchored Surfaces to Mitigate Stain and Bacterial Colonization for Oral Hygiene Application. ACS Applied Polymer Materials, 2021, 3, 4812-4824.	2.0	4
23	Smart textiles coated with functional particles derived from sustainable sources that can block both UV and EM. Progress in Organic Coatings, 2021, 159, 106404.	1.9	10
24	Electrospun ZrO2@carbon nanofiber mats and their epoxy composites as effective EMI shields in Ku band. Materials Research Bulletin, 2021, 144, 111477.	2.7	24
25	Ultrathin structures derived from interfacially modified polymeric nanocomposites to curb electromagnetic pollution. Nanoscale Advances, 2021, 3, 2632-2648.	2.2	10
26	Tunable Substrate Functionalities Direct Stem Cell Fate toward Electrophysiologically Distinguishable Neuron-like and Glial-like Cells. ACS Applied Materials & Interfaces, 2021, 13, 164-185.	4.0	13
27	The Journey of Alternative and Sustainable Substitutes for â€œSingleâ€Useâ€•Plastics. Advanced Sustainable Systems, 2021, 5, 2100085.	2.7	8
28	Solvent-Free Conductive Coatings Containing Chemically Coupled Particles for Functional Textiles. ACS Applied Electronic Materials, 2021, 3, 5402-5414.	2.0	5
29	â€˜Trigger-freeâ€™ self-healable electromagnetic shielding material assisted by co-doped graphene nanostructures. Chemical Engineering Journal, 2020, 382, 122816.	6.6	34
30	Lightweight Epoxy-Based Composites for EMI Shielding Applications. Journal of Electronic Materials, 2020, 49, 1702-1720.	1.0	27
31	Effect of Microstructure and Magnetic Properties of Ba-Pb-Hexaferrite Particles on EMI Shielding Behavior of Ba-Pb-Hexaferrite-Polyaniline-Wax Nanocomposites. Journal of Electronic Materials, 2020, 49, 1618-1629.	1.0	54
32	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.	1.3	9
33	Polymer tethered graphene oxide influences miscibility and cooperative relaxation in LCST blends. Polymer, 2020, 188, 122127.	1.8	7
34	Metal mesh-based transparent electrodes as high-performance EMI shields. Bulletin of Materials Science, 2020, 43, 1.	0.8	18
35	Nanoparticles influence miscibility in LCST polymer blends: from fundamental perspective to current applications. Physical Chemistry Chemical Physics, 2020, 22, 20167-20188.	1.3	16
36	â€˜Polycationâ€™ modified PVDF based antibacterial and antifouling membranes and â€˜point-of-use supportsâ€™ for sustainable and effective water decontamination. Journal of Water Process Engineering, 2020, 38, 101536.	2.6	14

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37	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.	1.8	13
38	The long-range Ï€-conjugation between electron-rich species and multiwall carbon nanotubes influences the fluorescence lifetime and electromagnetic shielding. Nanoscale Advances, 2020, 2, 4464-4472.	2.2	1
39	Sustainable photocatalytic water remediation via dual active strongly coupled AgBiO3 on PVDF/PBSA membranes. Chemical Engineering Journal, 2020, 394, 124777.	6.6	41
40	â€˜Template-freeâ€™ hierarchical MoS₂foam as a sustainable â€˜greenâ€™ scavenger of heavy metals and bacteria in point of use water purification. Nanoscale Advances, 2020, 2, 2824-2834.	2.2	21
41	Effect of tufting on mechanical performance of co-cured co-infused carbon-epoxy composite T-joint. Composite Structures, 2020, 250, 112468.	3.1	10
42	Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. ACS Omega, 2020, 5, 4705-4718.	1.6	54
43	Graphene templated growth of copper sulphide â€˜flowersâ€™ can suppress electromagnetic interference. Nanoscale Advances, 2020, 2, 3292-3303.	2.2	18
44	In situ assembly of a graphene oxide quantum dot-based thin-film nanocomposite supported on de-mixed blends for desalination through forward osmosis. Nanoscale Advances, 2020, 2, 1993-2003.	2.2	15
45	Mechanically robust, UV screener coreâ€“double-shell nanostructures provide enhanced shielding for EM radiations over wide angle of incidence. Nanoscale, 2020, 12, 15775-15790.	2.8	10
46	Does the Type of Polymer and Carbon Nanotube Structure Control the Electromagnetic Shielding in Melt-Mixed Polymer Nanocomposites?. Journal of Composites Science, 2020, 4, 9.	1.4	10
47	Thermoplastic polymer composites for EMI shielding applications. , 2020, , 73-99.		10
48	Nanoinfiltration for Enhancing Microwave Attenuation in Polystyreneâ€“Nanoparticle Composites. ACS Applied Nano Materials, 2020, 3, 1872-1880.	2.4	8
49	Probing the Influence of Î³-Sterilization on the Oxidation, Crystallization, Sliding Wear Resistance, and Cytocompatibility of Chemically Modified Graphene-Oxide-Reinforced HDPE/UHMWPE Nanocomposites and Wear Debris. ACS Biomaterials Science and Engineering, 2020, 6, 1462-1475.	2.6	13
50	Journey of Electroactive Î²-Polymorph of Poly(vinylidenefluoride) from Crystal Growth to Design to Applications. Crystal Growth and Design, 2019, 19, 5441-5456.	1.4	42
51	Mussel-Inspired Self-Healing Polyurethane with â€œFlower-likeâ€•Magnetic MoS₂ as Efficient Microwave Absorbers. ACS Applied Polymer Materials, 2019, 1, 2417-2429.	2.0	42
52	The journey of self-healing and shape memory polyurethanes from bench to translational research. Polymer Chemistry, 2019, 10, 4370-4388.	1.9	54
53	The Key Role of Modifications in Biointerfaces toward Rendering Antibacterial and Antifouling Properties in Polymeric Membranes for Water Remediation: A Critical Assessment. Advanced Sustainable Systems, 2019, 3, 1900017.	2.7	41
54	Compatibilising action of multiwalled carbon nanotubes in polycarbonate/polypropylene (PC/PP) blends: phase morphology, viscoelastic phase separation, rheology and percolation. Journal of Polymer Research, 2019, 26, 1.	1.2	22

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55	Multifunctional magnetic-polymeric nanoparticles based ferrofluids for multi-modal in vitro cancer treatment using thermotherapy and chemotherapy. Journal of Molecular Liquids, 2019, 293, 111549.	2.3	27
56	Nanodelivery in Scrolls-Based Nanocarriers: Efficient Constructs for Sustainable Scavenging of Heavy Metal Ions and Inactivate Bacteria. ACS Sustainable Chemistry and Engineering, 2019, 7, 18775-18784.	3.2	18
57	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive Î²-polymorph?. Polymer, 2019, 181, 121764.	1.8	20
58	Tunable CoNi microstructures in flexible multilayered polymer films can shield electromagnetic radiation. Composites Part B: Engineering, 2019, 177, 107283.	5.9	33
59	Enhanced microwave absorption properties of PMMA modified MnFe₂O₄â€“polyaniline nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 5068-5077.	1.3	37
60	Processing-Mediated Different States of Dispersion of Multiwalled Carbon Nanotubes in PDMS Nanocomposites Influence EMI Shielding Performance. ACS Omega, 2019, 4, 1781-1790.	1.6	38
61	Interlocked Graphene Oxide Provides Narrow Channels for Effective Water Desalination through Forward Osmosis. ACS Applied Materials & Interfaces, 2019, 11, 7566-7575.	4.0	46
62	Template-Free Synthesis of â€œWool-Ballâ€•Like Hollow CuS Structures Can Effectively Suppress Electromagnetic Radiation: A Mechanistic Insight. Journal of Physical Chemistry C, 2019, 123, 17136-17147.	1.5	14
63	The key role of thread and needle selection towards â€˜through-thickness reinforcementâ€™ in tufted carbon fiber-epoxy laminates. Composites Part B: Engineering, 2019, 174, 106970.	5.9	15
64	UV resistant and fire retardant properties in fabrics coated with polymer based nanocomposites derived from sustainable and natural resources for protective clothing application. Composites Part B: Engineering, 2019, 172, 555-563.	5.9	21
65	Nitrogen doping as a fundamental way to enhance the EMI shielding behavior of cobalt particle-embedded carbonaceous nanostructures. New Journal of Chemistry, 2019, 43, 5568-5580.	1.4	49
66	Multi-layered stack consisting of PVDF nanocomposites with flow-induced oriented MWCNT structure can supress electromagnetic radiation. Composites Part B: Engineering, 2019, 166, 749-757.	5.9	45
67	Interlocked Dithiâ€Magnetospheresâ€“Decorated MoS₂ Nanosheets as Molecular Sieves and Traps for Heavy Metal Ions. Advanced Sustainable Systems, 2019, 3, 1800153.	2.7	29
68	Aggregation-induced enhanced photoluminescence in magnetic graphene oxide quantum dots as a fluorescence probe for As(<scp>iii</scp>) sensing. Journal of Materials Chemistry A, 2019, 7, 8510-8520.	5.2	56
69	Emblica officinalis-loaded poly(Îµ-caprolactone) electrospun nanofiber scaffold as potential antibacterial and anticancer deployable patch. New Journal of Chemistry, 2019, 43, 7427-7440.	1.4	23
70	HDPE/UHMWPE hybrid nanocomposites with surface functionalized graphene oxide towards improved strength and cytocompatibility. Journal of the Royal Society Interface, 2019, 16, 20180273.	1.5	34
71	Light weight, ultrathin, and â€œthermally-clickableâ€•self-healing MWNT patch as electromagnetic interference suppressor. Chemical Engineering Journal, 2019, 366, 72-82.	6.6	48
72	Microbial Biofilm Membranes for Water Remediation and Photobiocatalysis. ACS Symposium Series, 2019, , 321-351.	0.5	10

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73	Macroporous epoxy-carbon fiber structures with a sacrificial 3D printed polymeric mesh suppresses electromagnetic radiation. Chemical Engineering Journal, 2019, 357, 384-394.	6.6	62
74	Mechanistic Insight into the Nature of Dopants in Graphene Derivatives Influencing Electromagnetic Interference Shielding Properties in Hybrid Polymer Nanocomposites. Journal of Physical Chemistry C, 2019, 123, 2579-2590.	1.5	53
75	One-step synthesis of hydrophilic functionalized and cytocompatible superparamagnetic iron oxide nanoparticles (SPIONs) based aqueous ferrofluids for biomedical applications. Journal of Molecular Liquids, 2019, 274, 653-663.	2.3	28
76	One-pot synthesis of hydrophilic flower-shaped iron oxide nanoclusters (IONCs) based ferrofluids for magnetic fluid hyperthermia applications. Journal of Molecular Liquids, 2019, 275, 699-712.	2.3	29
77	Electrodeposited carbon fiber and epoxy based sandwich architectures suppress electromagnetic radiation by absorption. Composites Part B: Engineering, 2019, 161, 578-585.	5.9	41
78	Water Remediation Aided by a Graphene-Oxide-Anchored Metal Organic Framework through Pore- and Charge-Based Sieving of Ions. ACS Sustainable Chemistry and Engineering, 2019, 7, 1580-1590.	3.2	29
79	Effect of Coralâ€Shaped Yttrium Iron Garnet Particles on the EMI Shielding Behaviour of Yttrium Iron Garnetâ€Polyanilineâ€Wax Composites. ChemistrySelect, 2018, 3, 2120-2130.	0.7	46
80	Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for suppressing electromagnetic radiation: challenges and prospects. Journal of Materials Chemistry C, 2018, 6, 3120-3142.	2.7	73
81	Ultraâ€Sensitive Detection of Proteins Using Chemically Modified Nanoporous PVDF Membrane with Attenuated Near IR Autofluorescence. ChemistrySelect, 2018, 3, 3839-3847.	0.7	4
82	Interfacial Architecture Constructed Using Functionalized MWNT Resulting in Enhanced EMI Shielding in Epoxy/Carbon Fiber Composites. ACS Omega, 2018, 3, 3974-3982.	1.6	31
83	Wool-Ball-Type Core-Dual-Shell FeCo@SiO2@MWCNTs Microcubes for Screening Electromagnetic Interference. ACS Applied Nano Materials, 2018, 1, 2261-2271.	2.4	22
84	Process mediated polymorphism, crystallographic texture and structure-property correlation in crystalline/amorphous blends. Polymer, 2018, 138, 307-319.	1.8	14
85	Recent Advances in Preparation of Porous Polymeric Membranes by Unique Techniques and Mitigation of Fouling through Surface Modification. ChemistrySelect, 2018, 3, 609-633.	0.7	49
86	Ultrafast Self-Healable Interfaces in Polyurethane Nanocomposites Designed Using Dielsâ€“Alder â€œClickâ€•as an Efficient Microwave Absorber. ACS Omega, 2018, 3, 1137-1146.	1.6	54
87	Suppressing Electromagnetic Radiation by Trapping Ferrite Nanoparticles and Carbon Nanotubes in Hierarchical Nanoporous Structures Designed by Crystallizationâ€Induced Phase Separation. ChemistrySelect, 2018, 3, 1189-1201.	0.7	23
88	Extraordinary Improvement in Mechanical Properties and Absorption-Driven Microwave Shielding through Epoxy-Grafted Graphene â€œInterconnectsâ€• ACS Omega, 2018, 3, 3200-3210.	1.6	19
89	Polymeric membranes derived from immiscible blends with hierarchical porous structures, tailored bio-interfaces and enhanced flux: Potential and key challenges. Nano Structures Nano Objects, 2018, 14, 149-165.	1.9	28
90	PVDF/PBSA membranes with strongly coupled phosphonium derivatives and graphene oxide on the surface towards antibacterial and antifouling activities. Journal of Membrane Science, 2018, 548, 203-214.	4.1	46

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91	Poly(ether ether ketone)-Grafted Graphene Oxide â€œInterconnectsâ€•Enhance Mechanical, Dynamic Mechanical, and Flame-Retardant Properties in Epoxy Laminates. ACS Omega, 2018, 3, 17487-17495.	1.6	19
92	Effect of Starch Nanocrystals on Natural Rubber Latex Vulcanizate Properties. Progress in Rubber, Plastics and Recycling Technology, 2018, 34, 75-87.	0.8	2
93	PVDFâ€“MWNT interactions control process induced Î²-lamellar morphology and orientation in the nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 24821-24831.	1.3	11
94	Does the Processing Method Resulting in Different States of an Interconnected Network of Multiwalled Carbon Nanotubes in Polymeric Blend Nanocomposites Affect EMI Shielding Properties?. ACS Omega, 2018, 3, 5771-5782.	1.6	58
95	Piezoelectric Response in Electrospun Poly(vinylidene fluoride) Fibers Containing Fluoro-Doped Graphene Derivatives. ACS Omega, 2018, 3, 5317-5326.	1.6	43
96	EMI shielding performance of lead hexaferrite/polyaniline composite in 8-18â€…GHz frequency range. AIP Conference Proceedings, 2018, , .	0.3	20
97	Arsenic Removal Using â€œGreenâ€•Renewable Feedstock-Based Hydrogels: Current and Future Perspectives. ACS Omega, 2018, 3, 5910-5917.	1.6	34
98	A designer membrane tool-box with a mixed metal organic framework and RAFT-synthesized antibacterial polymer perform in tandem towards desalination, antifouling and heavy metal exclusion. Journal of Materials Chemistry A, 2018, 6, 16664-16679.	5.2	42
99	Shape memory polyurethane nanocomposites with porous architectures for enhanced microwave shielding. Chemical Engineering Journal, 2018, 352, 590-600.	6.6	62
100	Smart Textiles Coated with Eco-Friendly UV-Blocking Nanoparticles Derived from Natural Resources. ACS Omega, 2018, 3, 7454-7465.	1.6	35
101	Phase miscibility and dynamic heterogeneity in PMMA/SAN blends through solvent free reactive grafting of SAN on graphene oxide. Physical Chemistry Chemical Physics, 2018, 20, 19470-19485.	1.3	13
102	Coreâ€“Multishell Heterostructure with Excellent Heat Dissipation for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2018, 10, 30762-30773.	4.0	108
103	Physical Insight into the Mechanism of Electromagnetic Shielding in Polymer Nanocomposites Containing Multiwalled Carbon Nanotubes and Inverse-Spinel Ferrites. Journal of Physical Chemistry C, 2018, 122, 19425-19437.	1.5	27
104	Tuneable Dielectric Properties Derived from Nitrogen-Doped Carbon Nanotubes in PVDF-Based Nanocomposites. ACS Omega, 2018, 3, 9966-9980.	1.6	16
105	Smart Textile Fabrics for Screening Millimeter Wavelength Radiations: Challenges and Future Perspectives. ChemistrySelect, 2018, 3, 6087-6101.	0.7	5
106	Cationic Biocide Anchored Graphene Oxide Based Membranes for Water Purification. Proceedings of the Indian National Science Academy, 2018, 96, .	0.5	4
107	Mechanistic Insight into the Critical Concentration of Barium Hexaferrite and the Conductive Polymeric Phase with Respect to Synergistically Electromagnetic Interference (EMI) Shielding. ChemistrySelect, 2017, 2, 830-841.	0.7	47
108	Investigation into dielectric behaviour and electromagnetic interference shielding effectiveness of conducting styrene butadiene rubber composites containing ionic liquid modified MWCNT. Polymer, 2017, 112, 102-115.	1.8	121

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109	Antibacterial Membranes for Water Remediation with Controlled Leaching of Biocidal Silver Aided by Prior Grafting of Poly(ethylene imine) on to Ozoneâ€Treated Polyethylene. ChemistrySelect, 2017, 2, 624-631.	0.7	7
110	Graphene oxide co-doped with dielectric and magnetic phases as an electromagnetic wave suppressor. Materials Chemistry Frontiers, 2017, 1, 1229-1244.	3.2	18
111	Rational Design of Multilayer Ultrathin Nanoâ€Architecture by Coupling of Soft Conducting Nanocomposite with Ferrites and Porous Structures for Screening Electromagnetic Radiation. ChemistrySelect, 2017, 2, 1094-1101.	0.7	9
112	Critical Insights into the Effect of Shear, Shear History, and the Concentration of a Diluent on the Polymorphism in Poly(vinylidene fluoride). Crystal Growth and Design, 2017, 17, 1957-1965.	1.4	13
113	Crystallization Induced Phase Separation: Unique Tool to Design Microfiltration Membranes with High Flux and Sustainable Antibacterial Surface. Industrial & Engineering Chemistry Research, 2017, 56, 2025-2035.	1.8	10
114	Tube-like natural halloysite/poly(tetrafluoroethylene) nanocomposites: simultaneous enhancement in thermal and mechanical properties. Materials Research Express, 2017, 4, 045301.	0.8	4
115	Phase specific dispersion of functional nanoparticles in soft nanocomposites resulting in enhanced electromagnetic screening ability dominated by absorption. Physical Chemistry Chemical Physics, 2017, 19, 467-479.	1.3	30
116	Unique Multilayered Assembly Consisting of â€œFlower-Likeâ€•Ferrite Nanoclusters Conjugated with MWCNT as Millimeter Wave Absorbers. Journal of Physical Chemistry C, 2017, 121, 13998-14009.	1.5	51
117	FeCo-Anchored Reduced Graphene Oxide Framework-Based Soft Composites Containing Carbon Nanotubes as Highly Efficient Microwave Absorbers with Excellent Heat Dissipation Ability. ACS Applied Materials & Interfaces, 2017, 9, 19202-19214.	4.0	132
118	Particles with selective wetting affect spinodal decomposition microstructures. Physical Chemistry Chemical Physics, 2017, 19, 15424-15432.	1.3	18
119	Oligomer-grafted graphene in a soft nanocomposite augments mechanical properties and biological activity. Materials and Design, 2017, 126, 238-249.	3.3	8
120	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation. Nanotechnology, 2017, 28, 025201.	1.3	29
121	Absorption-Dominated Electromagnetic Wave Suppressor Derived from Ferrite-Doped Cross-Linked Graphene Framework and Conducting Carbon. ACS Applied Materials & Interfaces, 2017, 9, 3030-3039.	4.0	169
122	Electromagnetic wave suppressors derived from crosslinked polymer composites containing functional particles: Potential and key challenges. Nano Structures Nano Objects, 2017, 12, 130-146.	1.9	52
123	Phase separation and physico-chemical processes at microscopic and macroscopic levels in MWCNT laden polymer blends using a unique droplet based architecture. Physical Chemistry Chemical Physics, 2017, 19, 24961-24970.	1.3	2
124	Nucleation barrier, growth kinetics in ternary polymer blend filled with preferentially distributed carbon nanotubes. Polymer, 2017, 128, 229-241.	1.8	8
125	Magnetic Alloyâ€MWNT Heterostructure as Efficient Electromagnetic Wave Suppressors in Soft Nanocomposites. ChemistrySelect, 2017, 2, 7831-7844.	0.7	37
126	Antibacterial and Antibiofouling Polymeric Membranes through Immobilization of Pyridine Derivative Leading to ROS Generation and Loss in Bacterial Membrane Integrity. ChemistrySelect, 2017, 2, 7965-7974.	0.7	21

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127	Electromagnetic screening in soft conducting composite-containing ferrites: the key role of size and shape anisotropy. Materials Chemistry Frontiers, 2017, 1, 2574-2589.	3.2	26
128	Graphene Derivatives Doped with Nickel Ferrite Nanoparticles as Excellent Microwave Absorbers in Soft Nanocomposites. ChemistrySelect, 2017, 2, 5984-5999.	0.7	14
129	Selective cleavage of the polyphosphoester in crosslinked copper based nanogels: enhanced antibacterial performance through controlled release of copper. Nanoscale, 2017, 9, 12664-12676.	2.8	29
130	Graphene analogues as emerging materials for screening electromagnetic radiations. Nano Structures Nano Objects, 2017, 11, 94-101.	1.9	36
131	Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption. Physical Chemistry Chemical Physics, 2017, 19, 23268-23279.	1.3	148
132	Hollow Semiconductor Nanospheresâ€Anchored Graphene Oxide Sheets for Effective Microwave Absorption. ChemistrySelect, 2017, 2, 10840-10847.	0.7	10
133	Assessing the interfacial properties in carbon fiber/epoxy nanocomposites: From â€˜interlayersâ€™ to â€˜interconnectsâ€™. Nano Structures Nano Objects, 2017, 12, 194-209.	1.9	31
134	Recent trends in multi-layered architectures towards screening electromagnetic radiation: challenges and perspectives. Journal of Materials Chemistry C, 2017, 5, 7390-7403.	2.7	108
135	Improved mechanical properties through engineering the interface by poly (ether ether ketone) grafted graphene oxide in epoxy based nanocomposites. Polymer, 2017, 122, 184-193.	1.8	54
136	A high-performance BaTiO₃-grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. Materials Chemistry Frontiers, 2017, 1, 269-277.	3.2	22
137	A novel fluorophoreâ€“spacerâ€“receptor to conjugate MWNTs and ferrite nanoparticles to design an ultra-thin shield to screen electromagnetic radiation. Materials Chemistry Frontiers, 2017, 1, 132-145.	3.2	33
138	Synthesis of fuel oil and carbon nanotubes in an autoclave using plastic waste as precursor. Materials and Manufacturing Processes, 2017, 32, 495-500.	2.7	14
139	Simultaneous Improvement in Structural Properties and Microwave Shielding of Polymer Blends with Carbon Nanotubes. ChemNanoMat, 2016, 2, 140-148.	1.5	25
140	Thermally induced phase separation in levitated polymer droplets. Physical Chemistry Chemical Physics, 2016, 18, 32477-32485.	1.3	3
141	High performance electromagnetic wave absorbers derived from PC/SAN blends containing multiwall carbon nanotubes and Fe₃O₄ decorated onto graphene oxide sheets. RSC Advances, 2016, 6, 37633-37645.	1.7	46
142	New Physical Insights into Shear History Dependent Polymorphism in Poly(vinylidene fluoride). Crystal Growth and Design, 2016, 16, 2937-2944.	1.4	32
143	Modulation of Protein Adsorption and Cell Proliferation on Polyethylene Immobilized Graphene Oxide Reinforced HDPE Bionanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 11954-11968.	4.0	30
144	Facile one-pot scalable strategy to engineer biocidal silver nanocluster assembly on thiolated PVDF membranes for water purification. RSC Advances, 2016, 6, 38972-38983.	1.7	30

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145	Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. Journal of Materials Chemistry C, 2016, 4, 4954-4966.	2.7	47
146	Microwave Absorption in MWNTsâ€Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. ChemistrySelect, 2016, 1, 4747-4752.	0.7	15
147	Is kinetic polymer arrest very specific to multiwalled carbon nanotubes?. Physical Chemistry Chemical Physics, 2016, 18, 29226-29238.	1.3	2
148	Polycarbonate Composites Containing Carbon Encapsulated â€œBrickâ€Likeâ€•Fe₃O₄ Nanoparticles as Efficient Microwave Absorbers with a Large Bandwidth. ChemistrySelect, 2016, 1, 3829-3838.	0.7	9
149	Improving antifouling ability by site-specific silver decoration on polyethylene ionomer membranes for water remediation: assessed using 3D micro computed tomography, water flux and antibacterial studies. RSC Advances, 2016, 6, 88057-88065.	1.7	9
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