

Sayan Ganguly

List of Publications by Year in descending order

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79
papers

4,849
citations

41323

49
h-index

95218

68
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81
all docs

81
docs citations

81
times ranked

3695
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Nanocomposites for Electromagnetic Interference Shielding: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7641-7669.	0.9	155
2	An approach to prepare mechanically robust full IPN strengthened conductive cotton fabric for high strain tolerant electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2018, 344, 138-154.	6.6	151
3	Fabrication of Reduced Graphene Oxide/Silver Nanoparticles Decorated Conductive Cotton Fabric for High Performing Electromagnetic Interference Shielding and Antibacterial Application. <i>Fibers and Polymers</i> , 2019, 20, 1161-1171.	1.1	140
4	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 577-588.	3.8	133
5	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. <i>Composites Part B: Engineering</i> , 2017, 119, 41-56.	5.9	132
6	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. <i>RSC Advances</i> , 2016, 6, 20781-20790.	1.7	126
7	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteria <i>Escherichia coli</i> . <i>Nanotechnology</i> , 2017, 28, 195501.	1.3	109
8	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 583-593.	4.0	99
9	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. <i>Functional Composites and Structures</i> , 2019, 1, 022001.	1.6	99
10	Fabrication and investigation of 3D tuned PEG/PEDOT: PSS treated conductive and durable cotton fabric for superior electrical conductivity and flexible electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2019, 181, 107682.	3.8	97
11	Thermal-air ageing treatment on mechanical, electrical, and electromagnetic interference shielding properties of lightweight carbon nanotube based polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 447-460.	3.8	95
12	Graphene based emergent nanolights: a short review on the synthesis, properties and application. <i>Research on Chemical Intermediates</i> , 2019, 45, 3823-3853.	1.3	94
13	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. <i>Materials Science and Engineering C</i> , 2017, 75, 1456-1464.	3.8	90
14	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. <i>Polymer Bulletin</i> , 2020, 77, 2923-2943.	1.7	90
15	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51940-51951.	4.0	90
16	Ultra-light weight, water durable and flexible highly electrical conductive polyurethane foam for superior electromagnetic interference shielding materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10177-10189.	1.1	86
17	Superior electromagnetic interference shielding effectiveness and electro-mechanical properties of EMA-rGO nanocomposites through the in-situ reduction of GO from melt blended EMA-GO composites. <i>Composites Part B: Engineering</i> , 2018, 134, 46-60.	5.9	86
18	Applications of N-Doped Carbon Dots as Antimicrobial Agents, Antibiotic Carriers, and Selective Fluorescent Probes for Nitro Explosives. <i>ACS Applied Bio Materials</i> , 2020, 3, 8023-8031.	2.3	86

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19	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. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24591-24599.	1.3	85
20	Green Reduced Graphene Oxide Toughened Semi-IPN Monolith Hydrogel as Dual Responsive Drug Release System: Rheological, Physicomechanical, and Electrical Evaluations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7201-7218.	1.2	85
21	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle. <i>Materials Chemistry and Physics</i> , 2019, 237, 121860.	2.0	79
22	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. <i>Langmuir</i> , 2021, 37, 3508-3520.	1.6	78
23	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 212-227.	3.8	77
24	Zinc and nitrogen ornamented bluish white luminescent carbon dots for engrossing bacteriostatic activity and Fenton based bio-sensor. <i>Materials Science and Engineering C</i> , 2018, 88, 115-129.	3.8	76
25	Carbon-Dots-Initiated Photopolymerization: An <i>In Situ</i> Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31038-31050.	4.0	73
26	Waste chimney oil to nanolights: A low cost chemosensor for tracer metal detection in practical field and its polymer composite for multidimensional activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 180, 56-67.	1.7	72
27	Carbon Nanostructures Based Mechanically Robust Conducting Cotton Fabric for Improved Electromagnetic Interference Shielding. <i>Fibers and Polymers</i> , 2018, 19, 1064-1073.	1.1	69
28	Polysaccharide and poly(methacrylic acid) based biodegradable elastomeric biocompatible semi-IPN hydrogel for controlled drug delivery. <i>Materials Science and Engineering C</i> , 2018, 92, 34-51.	3.8	69
29	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. <i>Cellulose</i> , 2017, 24, 5117-5131.	2.4	68
30	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn-off/bifunctional sensing and antibacterial activity. <i>New Journal of Chemistry</i> , 2019, 43, 6205-6219.	1.4	66
31	Converting waste <i>Allium sativum</i> 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. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 197, 111545.	1.7	65
32	Biocompatible carbon dots derived from $\bar{\iota}$ -carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 316-329.	3.6	65
33	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance. <i>Langmuir</i> , 2022, 38, 3936-3950.	1.6	65
34	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. <i>Nano Structures Nano Objects</i> , 2018, 16, 86-95.	1.9	64
35	Starch functionalized biodegradable semi-IPN as a pH-tunable controlled release platform for memantine. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 185-198.	3.6	63
36	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. <i>RSC Advances</i> , 2015, 5, 18312-18327.	1.7	62

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37	Highly conductive and flexible nano-structured carbon-based polymer nanocomposites with improved electromagnetic-interference-shielding performance. <i>Materials Research Express</i> , 2017, 4, 105039.	0.8	62
38	Mussel inspired green synthesis of silver nanoparticles-decorated halloysite nanotube using dopamine: characterization and evaluation of its catalytic activity. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 173-186.	1.6	61
39	Acoustic Green Synthesis of Graphene-Gallium Nanoparticles and PEDOT:PSS Hybrid Coating for Textile To Mitigate Electromagnetic Radiation Pollution. <i>ACS Applied Nano Materials</i> , 2022, 5, 1644-1655.	2.4	61
40	Effect of thermal-air ageing treatment on mechanical properties and electromagnetic interference shielding effectiveness of low-cost nano-structured carbon filled chlorinated polyethylene. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 225, 140-149.	1.7	60
41	Mechanically robust conductive carbon clusters confined ethylene methyl acrylate-based flexible composites for superior shielding effectiveness. <i>Polymers for Advanced Technologies</i> , 2018, 29, 95-110.	1.6	60
42	Microwave assisted green synthesis of Zwitterionic photoluminescent N-doped carbon dots: An efficient "on-off" chemosensor for tracer Cr(+6) considering the inner filter effect and nano drug-delivery vector. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123604.	2.3	58
43	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. <i>Nanoscale Advances</i> , 2021, 3, 6762-6796.	2.2	57
44	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UV active marker and fluorescent polymer composite. <i>Luminescence</i> , 2018, 33, 1136-1145.	1.5	55
45	Synthesis of polydopamine-coated halloysite nanotube-based hydrogel for controlled release of a calcium channel blocker. <i>RSC Advances</i> , 2016, 6, 105350-105362.	1.7	53
46	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. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 983-998.	3.6	53
47	A facile green synthesis of amino acid boosted Ag decorated reduced graphene oxide nanocomposites and its catalytic activity towards 4-nitrophenol reduction. <i>Surfaces and Interfaces</i> , 2018, 13, 79-91.	1.5	53
48	Photopolymerized Thin Coating of Polypyrrole/Graphene Nanofiber/Iron Oxide onto Nonpolar Plastic for Flexible Electromagnetic Radiation Shielding, Strain Sensing, and Non-Contact Heating Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101255.	1.9	53
49	In-situ synthesis of magnetic nanoparticle immobilized heterogeneous catalyst through mussel mimetic approach for the efficient removal of water pollutants. <i>Colloids and Interface Science Communications</i> , 2019, 33, 100218.	2.0	52
50	Design of Magnetic Hydrogels for Hyperthermia and Drug Delivery. <i>Polymers</i> , 2021, 13, 4259.	2.0	52
51	A facile green synthesis of silver nanoparticle-decorated hydroxyapatite for efficient catalytic activity towards 4-nitrophenol reduction. <i>Research on Chemical Intermediates</i> , 2018, 44, 1189-1208.	1.3	51
52	Combination effect of carbon nanofiber and ketjen carbon black hybrid nanofillers on mechanical, electrical, and electromagnetic interference shielding properties of chlorinated polyethylene nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 197, 108071.	5.9	51
53	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. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 735-746.	4.0	50
54	Acoustic cavitation assisted de-stratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104797.	3.8	49

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55	3D printed magnetic polymer composite hydrogels for hyperthermia and magnetic field driven structural manipulation. <i>Progress in Polymer Science</i> , 2022, 131, 101574.	11.8	49
56	Review: Remotely controlled magneto-regulation of therapeutics from magnetoelastic gel matrices. <i>Biotechnology Advances</i> , 2020, 44, 107611.	6.0	47
57	3D-Enhanced, High-Performing, Superhydrophobic and Electromagnetic Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. <i>ChemistrySelect</i> , 2019, 4, 11748-11754.	0.7	45
58	Water Uptake Kinetics and Control Release of Agrochemical Fertilizers from Nanoclay-Assisted Semi-interpenetrating Sodium Acrylate-Based Hydrogel. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 744-761.	1.9	41
59	A facile green synthesis of silver nanoparticles decorated silica nanocomposites using mussel inspired polydopamine chemistry and assessment its catalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6989-7001.	3.3	38
60	Preparation and Properties of Halloysite Nanotubes/Poly(ethylene methyl acrylate)-Based Nanocomposites by Variation of Mixing Methods. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 997-1014.	1.9	37
61	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl) Tj ETQq1 1 0,784314 rgBT /Over	1.0	35
62	A comparative study of physico-mechanical and electrical properties of polymer-carbon nanofiber in wet and melt mixing methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 245, 95-106.	1.7	33
63	Mussel-inspired Ag/poly(norepinephrine)/MnO ₂ heterogeneous nanocatalyst for efficient reduction of 4-nitrophenol and 4-nitroaniline: an alternative approach. <i>Research on Chemical Intermediates</i> , 2020, 46, 3629-3650.	1.3	33
64	Temperature-Dependent Study of Catalytic Ag Nanoparticles Entrapped Resin Nanocomposite towards Reduction of 4-Nitrophenol. <i>ChemistrySelect</i> , 2019, 4, 3665-3671.	0.7	32
65	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. <i>Materials Today Communications</i> , 2020, 24, 100989.	0.9	29
66	Layer by layer controlled synthesis at room temperature of tri-modal (<sc>MRI</sc>, fluorescence) Tj ETQq0 0 0 rgBT /Overlock 10 T for diagnostic applications. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3909-3921.	1.6	25
67	Electrical conductivity and electromagnetic interference shielding effectiveness of nano-structured carbon assisted poly(methyl methacrylate) nanocomposites. <i>Polymer Engineering and Science</i> , 2020, 60, 2414-2427.	1.5	22
68	Physico-mechanical, rheological and gas barrier properties of organoclay and inorganic phyllosilicate reinforced thermoplastic films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49735.	1.3	21
69	Synthesis of hydroxyapatite nanorods and its use as a nanoreinforcement block for ethylene methacrylate copolymer matrix. <i>Polymer Bulletin</i> , 2019, 76, 3621-3642.	1.7	18
70	Synthesis of Mussel Inspired Polydopamine Coated Halloysite Nanotubes Based Semi-IPN: An Approach to Fine Tuning in Drug Release and Mechanical Toughening. <i>Macromolecular Symposia</i> , 2018, 382, 1800076.	0.4	17
71	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from <i>Capra hircus</i> ear cartilage. <i>Communications Biology</i> , 2019, 2, 146.	2.0	13
72	Characterization tools and techniques of hydrogels. , 2020, , 481-517.		13

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73	A Review on Synthesis Methods of Phyllosilicate- and Graphene-Filled Composite Hydrogels. Journal of Composites Science, 2022, 6, 15.	1.4	13
74	Silane functionalization of sodium montmorillonite and halloysite (HNT) nanoclays by grafting to method to improve physico-mechanical and barrier properties of LLDPE/clay nanocomposites. Polymer Bulletin, 2023, 80, 4307-4335.	1.7	13
75	A comparison on self-seeding and isothermal crystallization of polyethylene in solution using small angle neutron scattering. Polymer, 2015, 61, 192-197.	1.8	11
76	Selective cross-linking of carboxylated acrylonitrile butadiene rubber and study of their technological compatibility with poly(ethylene-co-methyl acrylate) by means of mechanical, thermal, and chemical analysis. Polymer Bulletin, 2019, 76, 1877-1897.	1.7	10
77	Chlorosulphonated Polyethylene and Its Composites for Electronic Applications. Springer Series on Polymer and Composite Materials, 2016, , 229-259.	0.5	10
78	Rheological Properties of Polymer-Carbon Composites. Springer Series on Polymer and Composite Materials, 2019, , 271-294.	0.5	7
79	Preparation/processing of polymer-graphene composites by different techniques. , 2022, , 45-74.		5