

# Sayan Ganguly

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

3,088  
citations

38  
h-index

52  
g-index

81  
ext. papers

3,846  
ext. citations

5.3  
avg, IF

6  
L-index

#	Paper	IF	Citations
79	An approach to prepare mechanically robust full IPN strengthened conductive cotton fabric for high strain tolerant electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 138-154	14.7	116
78	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 39, 577-588	8.9	101
77	Polymer Nanocomposites for Electromagnetic Interference Shielding: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 7641-7669	1.3	101
76	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. <i>Composites Part B: Engineering</i> , <b>2017</b> , 119, 41-56	10	98
75	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> , <b>2019</b> , 20, 1161-1171	2	89
74	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. <i>RSC Advances</i> , <b>2016</b> , 6, 20781-20790	3.7	89
73	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteria <i>Escherichia coli</i> . <i>Nanotechnology</i> , <b>2017</b> , 28, 195501	3.4	77
72	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 266, 583-593	8.5	75
71	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> , <b>2016</b> , 18, 24591-9	3.6	74
70	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> , <b>2018</b> , 107, 447-460	8.4	69
69	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> , <b>2017</b> , 75, 1456-1464	8.3	67
68	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 022001	3.5	66
67	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> , <b>2018</b> , 29, 10177-10189	2.1	65
66	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> , <b>2019</b> , 181, 107682	8.6	62
65	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> , <b>2018</b> , 122, 7201-7218	3.4	61
64	Graphene based emergent nanolights: a short review on the synthesis, properties and application. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 3823-3853	2.8	60
63	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. <i>Composites Part B: Engineering</i> , <b>2018</b> , 134, 46-60	10	60

62	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. <i>Cellulose</i> , <b>2017</b> , 24, 5117-5131	5.5	58
61	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 42, 212-227	8.9	58
60	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> , <b>2018</b> , 180, 56-67	6.7	55
59	Highly conductive and flexible nano-structured carbon-based polymer nanocomposites with improved electromagnetic-interference-shielding performance. <i>Materials Research Express</i> , <b>2017</b> , 4, 105039	1.7	54
58	Carbon Nanostructures Based Mechanically Robust Conducting Cotton Fabric for Improved Electromagnetic Interference Shielding. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 1064-1073	2	54
57	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> , <b>2018</b> , 88, 115-129	8.3	53
56	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 2923-2943	2.4	53
55	Mussel inspired green synthesis of silver nanoparticles-decorated halloysite nanotube using dopamine: characterization and evaluation of its catalytic activity. <i>Applied Nanoscience (Switzerland)</i> , <b>2018</b> , 8, 173-186	3.3	47
54	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> , <b>2019</b> , 237, 121860	4.4	47
53	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. <i>RSC Advances</i> , <b>2015</b> , 5, 18312-18327	3.7	46
52	Mechanically robust conductive carbon clusters confined ethylene methyl acrylateBased flexible composites for superior shielding effectiveness. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 95-110	3.2	45
51	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn on/off/bifunctional sensing and antibacterial activity. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 6205-6219	3.6	44
50	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> , <b>2017</b> , 225, 140-149	3.1	44
49	Biocompatible carbon dots derived from $\kappa$ -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> , <b>2019</b> , 132, 316-329	7.9	43
48	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> , <b>2019</b> , 579, 123604	5.1	43
47	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. <i>Nano Structures Nano Objects</i> , <b>2018</b> , 16, 86-95	5.6	43
46	Starch functionalized biodegradable semi-IPN as a pH-tunable controlled release platform for memantine. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 95, 185-198	7.9	42
45	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51940-51951	9.5	42

44	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. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2019</b> , 197, 111545	6.7	42
43	Polysaccharide and poly(methacrylic acid) based biodegradable elastomeric biocompatible semi-IPN hydrogel for controlled drug delivery. <i>Materials Science and Engineering C</i> , <b>2018</b> , 92, 34-51	8.3	40
42	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> , <b>2017</b> , 252, 735-746	8.5	38
41	Applications of N-Doped Carbon Dots as Antimicrobial Agents, Antibiotic Carriers, and Selective Fluorescent Probes for Nitro Explosives.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8023-8031	4.1	38
40	A facile green synthesis of silver nanoparticle-decorated hydroxyapatite for efficient catalytic activity towards 4-nitrophenol reduction. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 1189-1208	2.8	38
39	Synthesis of polydopamine-coated halloysite nanotube-based hydrogel for controlled release of a calcium channel blocker. <i>RSC Advances</i> , <b>2016</b> , 6, 105350-105362	3.7	37
38	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> , <b>2018</b> , 13, 79-91	4.1	36
37	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UV-active marker and fluorescent polymer composite. <i>Luminescence</i> , <b>2018</b> , 33, 1136-1145	2.5	35
36	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> , <b>2019</b> , 33, 100218	5.4	35
35	Acoustic cavitation assisted destratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 60, 104797	8.9	33
34	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> , <b>2018</b> , 111, 983-998	7.9	32
33	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> , <b>2017</b> , 56, 744-761		31
32	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> , <b>2018</b> , 6, 6989-7001	6.8	30
31	Review: Remotely controlled magneto-regulation of therapeutics from magnetoelastic gel matrices. <i>Biotechnology Advances</i> , <b>2020</b> , 44, 107611	17.8	28
30	3D-Enhanced, High-Performing, Super-hydrophobic and Electromagnetic-Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. <i>ChemistrySelect</i> , <b>2019</b> , 4, 11748-11754	18.27	27
29	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. <i>Langmuir</i> , <b>2021</b> , 37, 3508-3520	4	27
28	Preparation and Properties of Halloysite Nanotubes/Poly(ethylene methyl acrylate)-Based Nanocomposites by Variation of Mixing Methods. <i>Polymer-Plastics Technology and Engineering</i> , <b>2018</b> , 57, 997-1014		25
27	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> , <b>2020</b> , 197, 108071	10	25

26	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> , <b>2019</b> , 245, 95-106	3.1	23
25	Carbon-Dots-Initiated Photopolymerization: An Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31038-31050	9.5	23
24	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> , <b>2020</b> , 24, 100989	2.5	21
23	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl acrylate) Copolymeric Thermoplastic Matrix. <i>Macromolecular Research</i> , <b>2019</b> , 27, 268-281	1.9	21
22	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. <i>Nanoscale Advances</i> , <b>2021</b> ,	5.1	18
21	Temperature-Dependent Study of Catalytic Ag Nanoparticles Entrapped Resin Nanocomposite towards Reduction of 4-Nitrophenol. <i>ChemistrySelect</i> , <b>2019</b> , 4, 3665-3671	1.8	16
20	Layer by layer controlled synthesis at room temperature of tri-modal (MRI, fluorescence and CT) core/shell superparamagnetic IO/human serum albumin nanoparticles for diagnostic applications. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 3909-3921	3.2	16
19	Mussel-inspired Ag/poly(norepinephrine)/MnO <sub>2</sub> heterogeneous nanocatalyst for efficient reduction of 4-nitrophenol and 4-nitroaniline: an alternative approach. <i>Research on Chemical Intermediates</i> , <b>2020</b> , 46, 3629-3650	2.8	15
18	Design of Magnetic Hydrogels for Hyperthermia and Drug Delivery. <i>Polymers</i> , <b>2021</b> , 13,	4.5	13
17	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> , <b>2018</b> , 382, 1800076	0.8	13
16	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> , <b>2021</b> , 8, 2101255	4.6	12
15	Synthesis of hydroxyapatite nanorods and its use as a nanoreinforcement block for ethylene methacrylate copolymer matrix. <i>Polymer Bulletin</i> , <b>2019</b> , 76, 3621-3642	2.4	12
14	Chlorosulphonated Polyethylene and Its Composites for Electronic Applications. <i>Springer Series on Polymer and Composite Materials</i> , <b>2016</b> , 229-259	0.9	10
13	A comparison on self-seeding and isothermal crystallization of polyethylene in solution using small angle neutron scattering. <i>Polymer</i> , <b>2015</b> , 61, 192-197	3.9	9
12	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. <i>Polymer Bulletin</i> , <b>2019</b> , 76, 1877-1897	2.4	9
11	Characterization tools and techniques of hydrogels <b>2020</b> , 481-517		9
10	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> , <b>2022</b> , 5, 1644-1655	5.6	8
9	Electrical conductivity and electromagnetic interference shielding effectiveness of nano-structured carbon assisted poly(methyl methacrylate) nanocomposites. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 2414-2427	2.3	8

8	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from ear cartilage. <i>Communications Biology</i> , <b>2019</b> , 2, 146	6.7	6
7	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance.. <i>Langmuir</i> , <b>2022</b> ,	4	6
6	3D printed magnetic polymer composite hydrogels for hyperthermia and magnetic field driven structural manipulation. <i>Progress in Polymer Science</i> , <b>2022</b> , 101574	29.6	6
5	A Review on Synthesis Methods of Phyllosilicate- and Graphene-Filled Composite Hydrogels. <i>Journal of Composites Science</i> , <b>2022</b> , 6, 15	3	5
4	Rheological Properties of Polymer/Carbon Composites. <i>Springer Series on Polymer and Composite Materials</i> , <b>2019</b> , 271-294	0.9	5
3	Physico-mechanical, rheological and gas barrier properties of organoclay and inorganic phyllosilicate reinforced thermoplastic films. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49735	2.9	3
2	Preparation/processing of polymer-graphene composites by different techniques <b>2022</b> , 45-74		3
1	Containers for Drug Delivery. <i>Composites Science and Technology</i> , <b>2022</b> , 127-153		0