Poushali Das

List of Publications by Year
in descending order

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52 papers	3,548 citations	66315 42 h-index	182361 51 g-index
53 all docs	53 docs citations	53 times ranked	2825 citing authors

#	Article	IF	Citations
1	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.	6.6	151
2	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.	1.1	140
3	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. Ultrasonics Sonochemistry, 2017, 39, 577-588.	3.8	133
4	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. Composites Part B: Engineering, 2017, 119, 41-56.	5.9	132
5	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. ACS Applied Nano Materials, 2020, 3, 11777-11790.	2.4	113
6	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteriaEscherichia coli. Nanotechnology, 2017, 28, 195501.	1.3	109
7	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. Sensors and Actuators B: Chemical, 2018, 266, 583-593.	4.0	99
8	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. Functional Composites and Structures, 2019, 1, 022001.	1.6	99
9	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.	3.8	95
10	Graphene based emergent nanolights: a short review on the synthesis, properties and application. Research on Chemical Intermediates, 2019, 45, 3823-3853.	1.3	94
11	A simplistic approach to green future with eco-friendly luminescent carbon dots and their application to fluorescent nano-sensor â€˜turn-offâ€™ probe for selective sensing of copper ions. Materials Science and Engineering C, 2017, 75, 1456-1464.	3.8	90
12	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. Polymer Bulletin, 2020, 77, 2923-2943.	1.7	90
13	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. ACS Applied Materials & Interfaces, 2020, 12, 51940-51951.	4.0	90
14	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.	2.3	86
15	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.	1.2	85
16	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.	2.0	79
17	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. Langmuir, 2021, 37, 3508-3520.	1.6	78
18	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. Ultrasonics Sonochemistry, 2018, 42, 212-227.	3.8	77

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19	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.	3.8	76
20	Carbon-Dots-Initiated Photopolymerization: An In Situ Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. ACS Applied Materials & Interfaces, 2021, 13, 31038-31050.	4.0	73
21	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.	1.7	72
22	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.	3.8	69
23	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. Nanomaterials, 2021, 11, 369.	1.9	69
24	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. Cellulose, 2017, 24, 5117-5131.	2.4	68
25	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn â€œonâ€“offâ€“onâ€•bifunctional sensing and antibacterial activity. New Journal of Chemistry, 2019, 43, 6205-6219.	1.4	66
26	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.	1.7	65
27	Biocompatible carbon dots derived from Î¹-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. International Journal of Biological Macromolecules, 2019, 132, 316-329.	3.6	65
28	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance. Langmuir, 2022, 38, 3936-3950.	1.6	65
29	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. Nano Structures Nano Objects, 2018, 16, 86-95.	1.9	64
30	Starch functionalized biodegradable semi-IPN as a pH-tunable controlled release platform for memantine. International Journal of Biological Macromolecules, 2017, 95, 185-198.	3.6	63
31	Highly conductive and flexible nano-structured carbon-based polymer nanocomposites with improved electromagnetic-interference-shielding performance. Materials Research Express, 2017, 4, 105039.	0.8	62
32	Carbon Dot Cross-Linked Gelatin Nanocomposite Hydrogel for pH-Sensing and pH-Responsive Drug Delivery. ACS Biomaterials Science and Engineering, 2020, 6, 5662-5674.	2.6	62
33	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.	2.4	61
34	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.	1.7	60
35	Microwave assisted green synthesis of Zwitterionic photolumenescent N-doped carbon dots: An efficient â€˜on-offâ€™ chemosensor for tracer Cr(+6) considering the inner filter effect and nano drug-delivery vector. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123604.	2.3	58
36	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. Nanoscale Advances, 2021, 3, 6762-6796.	2.2	57

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37	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UVâ€active marker and fluorescent polymer composite. Luminescence, 2018, 33, 1136-1145.	1.5	55
38	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.	3.6	53
39	Photopolymerized Thin Coating of Polypyrrole/Graphene Nanofiber/Iron Oxide onto Nonpolar Plastic for Flexible Electromagnetic Radiation Shielding, Strain Sensing, and Nonâ€Contact Heating Applications. Advanced Materials Interfaces, 2021, 8, 2101255.	1.9	53
40	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.	4.0	50
41	Acoustic cavitation assisted destratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. Ultrasonics Sonochemistry, 2020, 60, 104797.	3.8	49
42	3Dâ€Enhanced, Highâ€Performing, Superâ€hydrophobic and Electromagneticâ€Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. ChemistrySelect, 2019, 4, 11748-11754.	0.7	45
43	Antimicrobial Activities of Zn-Doped CuO Microparticles Decorated on Polydopamine against Sensitive and Antibiotic-Resistant Bacteria. ACS Applied Polymer Materials, 2020, 2, 5878-5888.	2.0	38
44	Preparation and Properties of Halloysite Nanotubes/Poly(ethylene methyl acrylate)-Based Nanocomposites by Variation of Mixing Methods. Polymer-Plastics Technology and Engineering, 2018, 57, 997-1014.	1.9	37
45	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl) Tj ETQq1 1 0.784314 rgBT /O	1.0	35
46	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.	0.9	29
47	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. Biotechnology Advances, 2021, 53, 107843.	6.0	24
48	Oneâ€Step Synthesis of Fluorescent Carbon Dots for Bioâ€Labeling Assay. Macromolecular Symposia, 2018, 382, 1800077.	0.4	19
49	Current scenario and recent advancement of doped carbon dots: a short review scientocracy update (2013â€“2022). Carbon Letters, 2022, 32, 953-977.	3.3	18
50	Characterization tools and techniques of hydrogels. , 2020, , 481-517.		13
51	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.	1.9	10
52	Polymer-graphene composite in aerospace engineering. , 2022, , 683-711.		3