

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	Polymer-graphene composite in aerospace engineering. , 2022, , 683-711.		3
2	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
3	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
4	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
5	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. Nanomaterials, 2021, 11, 369.	1.9	69
6	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. Langmuir, 2021, 37, 3508-3520.	1.6	78
7	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
8	Carbon-Dots-Initiated Photopolymerization: An <i>In Situ</i> 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
9	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. Nanoscale Advances, 2021, 3, 6762-6796.	2.2	57
10	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. Biotechnology Advances, 2021, 53, 107843.	6.0	24
11	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
12	Acoustic cavitation assisted de-stratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. Ultrasonics Sonochemistry, 2020, 60, 104797.	3.8	49
13	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
14	Characterization tools and techniques of hydrogels. , 2020, , 481-517.		13
15	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
16	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
17	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. ACS Applied Nano Materials, 2020, 3, 11777-11790.	2.4	113
18	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

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19	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
20	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
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	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> , 2019, 197, 111545.	1.7	65
23	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
24	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
25	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
26	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
27	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> , 2019, 43, 6205-6219.	1.4	66
28	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
29	Biocompatible carbon dots derived from \hat{e} -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
30	An Insight Into the Physico-Mechanical Signatures of Silylated Graphene Oxide in Poly(ethylene methyl) Tj ETQqO 0,0rgBT /Overlock 10	1.0	35
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	One-Step Synthesis of Fluorescent Carbon Dots for Bio-Labeling Assay. <i>Macromolecular Symposia</i> , 2018, 382, 1800077.	0.4	19
40	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. <i>Nano Structures Nano Objects</i> , 2018, 16, 86-95.	1.9	64
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	High-performance carbon nanofiber coated cellulose filter paper for electromagnetic interference shielding. <i>Cellulose</i> , 2017, 24, 5117-5131.	2.4	68
52	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