

Suguna Perumal

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,360
citations

109321

35
h-index

110387

64
g-index

71
all docs

71
docs citations

71
times ranked

3760
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly fluorescent nitrogen-doped carbon dots derived from <i>Phyllanthus acidus</i> utilized as a fluorescent probe for label-free selective detection of Fe ³⁺ ions, live cell imaging and fluorescent ink. <i>Biosensors and Bioelectronics</i> , 2018, 99, 303-311.	10.1	537
2	Facile green synthesis of nitrogen-doped carbon dots using <i>Chionanthus retusus</i> fruit extract and investigation of their suitability for metal ion sensing and biological applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 497-509.	7.8	301
3	Hydrophilic nitrogen-doped carbon dots from biowaste using dwarf banana peel for environmental and biological applications. <i>Fuel</i> , 2020, 275, 117821.	6.4	273
4	Facile synthesis of zinc oxide nanoparticles decorated graphene oxide composite via simple solvothermal route and their photocatalytic activity on methylene blue degradation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 500-510.	3.8	203
5	Betel-derived nitrogen-doped multicolor carbon dots for environmental and biological applications. <i>Journal of Molecular Liquids</i> , 2019, 296, 111817.	4.9	161
6	Sustainable synthesis of carbon quantum dots from banana peel waste using hydrothermal process for in vivo bioimaging. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114417.	2.7	158
7	Green synthesis of nitrogen-doped graphitic carbon sheets with use of <i>Prunus persica</i> for supercapacitor applications. <i>Applied Surface Science</i> , 2017, 393, 276-286.	6.1	146
8	Hydrothermal conversion of <i>Magnolia liliiflora</i> into nitrogen-doped carbon dots as an effective turn-off fluorescence sensing, multi-colour cell imaging and fluorescent ink. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 321-328.	5.0	134
9	Effective photocatalytic degradation of anthropogenic dyes using graphene oxide grafting titanium dioxide nanoparticles under UV-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 333, 92-104.	3.9	123
10	An ultrasensitive photoelectrochemical biosensor for glucose based on bio-derived nitrogen-doped carbon sheets wrapped titanium dioxide nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019, 126, 160-169.	10.1	121
11	In-situ green synthesis of nitrogen-doped carbon dots for bioimaging and TiO ₂ nanoparticles@nitrogen-doped carbon composite for photocatalytic degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2018, 766, 12-24.	5.5	120
12	Concurrent synthesis of nitrogen-doped carbon dots for cell imaging and ZnO@nitrogen-doped carbon sheets for photocatalytic degradation of methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 75-85.	3.9	114
13	Utilization of waste biomass of <i>Poa pratensis</i> for green synthesis of n-doped carbon dots and its application in detection of Mn ²⁺ and Fe ³⁺ . <i>Chemosphere</i> , 2022, 286, 131764.	8.2	114
14	High-performance glucose biosensor based on green synthesized zinc oxide nanoparticle embedded nitrogen-doped carbon sheet. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 195-204.	3.8	97
15	Direct solvothermal synthesis of zinc oxide nanoparticle decorated graphene oxide nanocomposite for efficient photodegradation of azo-dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 337, 100-111.	3.9	87
16	Tunable fluorescent carbon dots from biowaste as fluorescence ink and imaging human normal and cancer cells. <i>Environmental Research</i> , 2022, 204, 112365.	7.5	78
17	Indian Gooseberry-Derived Tunable Fluorescent Carbon Dots as a Promise for In Vitro/In Vivo Multicolor Bioimaging and Fluorescent Ink. <i>ACS Omega</i> , 2018, 3, 17590-17601.	3.5	76
18	Assembling covalently linked nanocrystals and nanotubes through click chemistry. <i>Chemical Physics Letters</i> , 2007, 443, 118-121.	2.6	71

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19	Facile synthesis of a novel nitrogen-doped carbon dot adorned zinc oxide composite for photodegradation of methylene blue. Dalton Transactions, 2020, 49, 17725-17736.	3.3	70
20	A Review of Polymeric Micelles and Their Applications. Polymers, 2022, 14, 2510.	4.5	65
21	Spherical Chitosan/Gelatin Hydrogel Particles for Removal of Multiple Heavy Metal Ions from Wastewater. Industrial & Engineering Chemistry Research, 2019, 58, 9900-9907.	3.7	64
22	Synthesis and characterization of graphitic mesoporous carbon using metal-metal oxide by chemical vapor deposition method. Microporous and Mesoporous Materials, 2015, 215, 123-132.	4.4	59
23	Highly graphitic carbon nanosheets synthesized over tailored mesoporous molecular sieves using acetylene by chemical vapor deposition method. RSC Advances, 2015, 5, 93364-93373.	3.6	59
24	Leftover Kiwi Fruit Peel-Derived Carbon Dots as a Highly Selective Fluorescent Sensor for Detection of Ferric Ion. Chemosensors, 2021, 9, 166.	3.6	54
25	Green synthesis of nitrogen-doped carbon nanograss for supercapacitors. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 475-486.	5.3	53
26	Biowaste-originated heteroatom-doped porous carbonaceous material for electrochemical energy storage application. Journal of Industrial and Engineering Chemistry, 2021, 98, 308-317.	5.8	51
27	Electrocatalytic and energy storage performance of bio-derived sulphur-nitrogen-doped carbon. Journal of Electroanalytical Chemistry, 2019, 833, 357-369.	3.8	50
28	One-pot dual product synthesis of hierarchical Co ₃ O ₄ @N-rGO for supercapacitors, N-GDs for label-free detection of metal ion and bio-imaging applications. Ceramics International, 2018, 44, 2869-2883.	4.8	49
29	Facile synthesis of monodisperse hollow carbon nanospheres using sucrose by carbonization route. Materials Letters, 2016, 166, 145-149.	2.6	47
30	Efficient Synthesis of Fused Perhydrofuro[2,3-b]pyrans (and Furans) by Ring Opening of 1,2-Cyclopropanated Sugar Derivatives. Organic Letters, 2007, 9, 1331-1334.	4.6	46
31	Simultaneous removal of heavy metal ions using carbon dots-doped hydrogel particles. Chemosphere, 2022, 286, 131760.	8.2	42
32	Facile synthesis of nitrogen-doped porous carbon materials using waste biomass for energy storage applications. Chemosphere, 2022, 289, 133225.	8.2	40
33	Graphene oxide-embedded chitosan/gelatin hydrogel particles for the adsorptions of multiple heavy metal ions. Journal of Materials Science, 2020, 55, 9354-9363.	3.7	39
34	Facile one-pot synthesis of thio and selenourea derivatives: A new class of potent urease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6387-6391.	2.2	38
35	Eco-friendly synthesis of tunable fluorescent carbon nanodots from Malus floribunda for sensors and multicolor bioimaging. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112336.	3.9	38
36	PVP-b-PEO block copolymers for stable aqueous and ethanolic graphene dispersions. Journal of Colloid and Interface Science, 2016, 464, 25-35.	9.4	37

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37	Synthesis and characterization of graphenated carbon nanotubes on IONPs using acetylene by chemical vapor deposition method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 355-362.	2.7	32
38	Electrochemically exfoliated graphene sheets as electrode material for aqueous symmetric supercapacitors. <i>Surface and Coatings Technology</i> , 2021, 416, 127150.	4.8	32
39	Recent Studies on Dispersion of Grapheneâ€“Polymer Composites. <i>Polymers</i> , 2021, 13, 2375.	4.5	32
40	A study of adhesion forces between vinyl monomers and graphene surfaces for non-covalent functionalization of graphene. <i>Carbon</i> , 2016, 107, 74-76.	10.3	29
41	High-concentration graphene dispersion stabilized by block copolymers in ethanol. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 359-367.	9.4	29
42	Kinetics Study of the Binding of Multivalent Ligands on Size-Selected Gold Nanoparticles. <i>Langmuir</i> , 2011, 27, 4456-4464.	3.5	28
43	Solid Waste-Derived Carbon Fibers-Trapped Nickel Oxide Composite Electrode for Energy Storage Application. <i>Energy & Fuels</i> , 2020, 34, 14958-14967.	5.1	27
44	One-pot synthesis of Fe ₃ O ₄ @graphite sheets as electrocatalyst for water electrolysis. <i>Fuel</i> , 2020, 277, 118235.	6.4	26
45	A Short Review on Recent Advances of Hydrogel-Based Adsorbents for Heavy Metal Ions. <i>Metals</i> , 2021, 11, 864.	2.3	24
46	Sustainable Synthesis of Silver Nanoparticles Using Marine Algae for Catalytic Degradation of Methylene Blue. <i>Catalysts</i> , 2021, 11, 1377.	3.5	22
47	Smartphone-Operated Wireless Chemical Sensors: A Review. <i>Chemosensors</i> , 2022, 10, 55.	3.6	21
48	Multicolor-emitting carbon dots from <i>Malus floribunda</i> and their interaction with <i>Caenorhabditis elegans</i> . <i>Materials Letters</i> , 2020, 261, 127153.	2.6	19
49	Amphiphilic Fluorinated Block Copolymer Synthesized by RAFT Polymerization for Graphene Dispersions. <i>Polymers</i> , 2016, 8, 101.	4.5	16
50	Highly Fluorescent Carbon Dots as a Potential Fluorescence Probe for Selective Sensing of Ferric Ions in Aqueous Solution. <i>Chemosensors</i> , 2021, 9, 301.	3.6	15
51	Facile synthesis of novel molybdenum disulfide decorated banana peel porous carbon electrode for hydrogen evolution reaction. <i>Chemosphere</i> , 2022, 307, 135712.	8.2	15
52	Novel cyclic tetraselenides of mannose: synthesis and mechanistic studies. <i>Tetrahedron Letters</i> , 2007, 48, 2091-2095.	1.4	14
53	Morus nigra-derived hydrophilic carbon dots for the highly selective and sensitive detection of ferric ion in aqueous media and human colon cancer cell imaging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 635, 128073.	4.7	14
54	A Critical Review on Artificial Intelligence for Fuel Cell Diagnosis. <i>Catalysts</i> , 2022, 12, 743.	3.5	14

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55	Enhanced thermomechanical property of a self-healing polymer <i>via</i> self-assembly of a reversibly cross-linkable block copolymer. <i>Polymer Chemistry</i> , 2020, 11, 3701-3708.	3.9	13
56	Sustainable Synthesis of N/S-Doped Porous Carbon from Waste-Biomass as Electroactive Material for Energy Harvesting. <i>Catalysts</i> , 2022, 12, 436.	3.5	13
57	Design and prediction of dye dispersibility stabilized by polymeric dispersants using a Dyeâ€“Monomer interaction force measurement. <i>Dyes and Pigments</i> , 2020, 172, 107791.	3.7	12
58	Exfoliation and Noncovalent Functionalization of Graphene Surface with Poly-N-Vinyl-2-Pyrrolidone by In Situ Polymerization. <i>Molecules</i> , 2021, 26, 1534.	3.8	12
59	A review on bismuth-based materials for the removal of organic and inorganic pollutants. <i>Chemosphere</i> , 2022, 306, 135521.	8.2	12
60	Interaction of Zwitterionic and Ionic Monomers with Graphene Surfaces. <i>Langmuir</i> , 2018, 34, 6737-6747.	3.5	11
61	Poly[2-(methacryloyloxy)ethyl phosphorylcholine]-Stabilized graphene-iron oxide composites for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 10850-10861.	7.1	11
62	Preparation of urushiol-containing poly(methyl methacrylate) copolymers for antibacterial and antifouling coatings. <i>Journal of Coatings Technology Research</i> , 2017, 14, 621-630.	2.5	10
63	Novel chalcogenides of thymidine and uridine: synthesis, properties and applications. <i>Carbohydrate Research</i> , 2007, 342, 1151-1158.	2.3	9
64	Noncovalent Functionalized Graphene Nanocarriers from Graphite for Treating Thyroid Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2317-2328.	5.2	7
65	Comparative investigation on antibacterial studies of <i>Oxalis corniculata</i> and silver nanoparticle stabilized graphene surface. <i>Journal of Materials Science</i> , 2022, 57, 11630-11648.	3.7	7
66	Synthesis and Characterization of Monodispersed Spherical Calcium Oxide and Calcium Carbonate Nanoparticles via Simple Pyrolysis. <i>Nanomaterials</i> , 2022, 12, 2424.	4.1	7
67	Synthetization of hybrid nanocellulose aerogels for the removal of heavy metal ions. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	6
68	Facile synthesis of molybdenum disulfide adorned heteroatom-doped porous carbon for energy storage applications. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 545-561.	9.1	5
69	Controlled Synthesis of Platinum and Silver Nanoparticles Using Multivalent Ligands. <i>Nanomaterials</i> , 2022, 12, 2294.	4.1	1