Kumud M Tripathi

List of Publications by Year
in descending order

65	4,893	76196 40	114278 63
papers	citations	h-index	g-index

72	72	72	6211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thiourea-functionalized graphene aerogel for the aqueous phase sensing of toxic Pb(II) metal ions and H2O2. Chemosphere, 2022, 287, 132105.	4.2	23
2	Sunlight-promoted photodegradation of Congo red by cadmium-sulfide decorated graphene aerogel. Chemosphere, 2022, 287, 132225.	4.2	62
3	Recent advances in photocatalytic carbon-based materials for enhanced water splitting under visible-light irradiation. Energy Conversion and Management, 2022, 252, 115133.	4.4	43
4	Coupling graphene microribbons with carbon nanofibers: New carbon hybrids for high-performing lithium and potassium-ion batteries. Sustainable Materials and Technologies, 2022, 32, e00393.	1.7	9
5	Nanobiocharâ€"a green catalyst for wastewater remediation. , 2022, , 109-132.		5
6	Prospects of nano-carbons as emerging catalysts for enzyme-mimetic applications. Materials Advances, 2022, 3, 3101-3122.	2.6	39
7	N-Doped Carbon Nanorods from Biomass as a Potential Antidiabetic Nanomedicine. ACS Biomaterials Science and Engineering, 2022, 8, 2131-2141.	2.6	19
8	Biomass-Based Functionalized Graphene for Self-Rechargeable Zincâ€"Air Batteries. ACS Applied Energy Materials, 2022, 5, 6663-6670.	2.5	30
9	Nanocarbon-based-ZnO nanocomposites for supercapacitor application. , 2021, , 553-573.		6
10	Bio-mass derived functionalized graphene aerogel: a sustainable approach for the removal of multiple organic dyes and their mixtures. New Journal of Chemistry, 2021, 45, 9073-9083.	1.4	60
11	Upgrading of diesel engine exhaust waste into onion-like carbon nanoparticles for integrated degradation sensing in nano-biocomposites. New Journal of Chemistry, 2021, 45, 3675-3682.	1.4	26
12	Recent advances in application of the graphene-based membrane for water purification. Materials Today Chemistry, 2021, 22, 100597.	1.7	23
13	Upgrading of seafood waste as a carbon source: Nano-world outlook. Journal of Environmental Chemical Engineering, 2021, 9, 106656.	3.3	25
14	Carbon Nanomaterials Derived from Black Carbon Soot: A Review of Materials and Applications. ACS Applied Nano Materials, 2021, 4, 12825-12844.	2.4	26
15	Nano-carbon based sensors for bacterial detection and discrimination in clinical diagnosis: A junction between material science and biology. Applied Materials Today, 2020, 18, 100467.	2.3	52
16	Synthesis of clay-cellulose biocomposite for the removal of toxic metal ions from aqueous medium. Journal of Hazardous Materials, 2020, 381, 120871.	6.5	62
17	Phenol-formaldehyde-resin-based activated carbons with controlled pore size distribution for high-performance supercapacitors. Chemical Engineering Journal, 2020, 379, 122332.	6.6	70
18	High-performance hybrid microsupercapacitors based on Coâ€"Mn layered double hydroxide nanosheets. Electrochimica Acta, 2020, 334, 135590.	2.6	20

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19	N, S, and P-Co-doped Carbon Quantum Dots: Intrinsic Peroxidase Activity in a Wide pH Range and Its Antibacterial Applications. ACS Biomaterials Science and Engineering, 2020, 6, 5527-5537.	2.6	109
20	Sustainable nitrogen-doped functionalized graphene nanosheets for visible-light-induced photocatalytic water splitting. Chemical Communications, 2020, 56, 6953-6956.	2.2	49
21	Synthesis and characterization of magnetic biochar adsorbents for the removal of Cr(VI) and Acid orange 7 dye from aqueous solution. Environmental Science and Pollution Research, 2020, 27, 32874-32887.	2.7	90
22	Multifunctional N-P-doped carbon dots for regulation of apoptosis and autophagy in B16F10 melanoma cancer cells and in vitro imaging applications. Theranostics, 2020, 10, 7841-7856.	4.6	70
23	Carbon nano-onions from waste oil for application in energy storage devices. New Journal of Chemistry, 2020, 44, 7369-7375.	1.4	57
24	N,P-Doped Carbon Nanodots for Food-Matrix Decontamination, Anticancer Potential, and Cellular Bio-Imaging Applications. Journal of Biomedical Nanotechnology, 2020, 16, 283-303.	0.5	15
25	Nitrogen-doped fluorescent graphene nanosheets as visible-light-driven photocatalysts for dye degradation and selective sensing of ascorbic acid. New Journal of Chemistry, 2019, 43, 14575-14583.	1.4	41
26	Fluorescent microspheres of zinc 1,2-dicarbomethoxy-1,2-dithiolate complex decorated with carbon nanotubes. Carbon Letters, 2019, 29, 595-603.	3.3	34
27	Biomass-derived Carbon Quantum Dots for Visible-Light-Induced Photocatalysis and Label-Free Detection of Fe(III) and Ascorbic acid. Scientific Reports, 2019, 9, 15084.	1.6	161
28	A Sustainable Graphene Aerogel Capable of the Adsorptive Elimination of Biogenic Amines and Bacteria from Soy Sauce and Highly Efficient Cell Proliferation. ACS Applied Materials & Interfaces, 2019, 11, 43949-43963.	4.0	55
29	Sustainable Graphene Aerogel as an Ecofriendly Cell Growth Promoter and Highly Efficient Adsorbent for Histamine from Red Wine. ACS Applied Materials & Interfaces, 2019, 11, 18165-18177.	4.0	54
30	Soluble Graphene Nanosheets for the Sunlight-Induced Photodegradation of the Mixture of Dyes and its Environmental Assessment. Scientific Reports, 2019, 9, 2522.	1.6	74
31	Visible-light photocatalysis by carbon-nano-onion-functionalized ZnO tetrapods: degradation of 2,4-dinitrophenol and a plant-model-based ecological assessment. NPG Asia Materials, 2019, 11, .	3.8	130
32	Graphene-Based Aerogels Derived from Biomass for Energy Storage and Environmental Remediation. ACS Sustainable Chemistry and Engineering, 2019, 7, 3772-3782.	3.2	114
33	Green carbon nanostructured quantum resistive sensors to detect volatile biomarkers. Sustainable Materials and Technologies, 2018, 16, 1-11.	1.7	40
34	Activated Biomass-derived Graphene-based Carbons for Supercapacitors with High Energy and Power Density. Scientific Reports, 2018, 8, 1915.	1.6	79
35	Sunlight-Induced Selective Photocatalytic Degradation of Methylene Blue in Bacterial Culture by Pollutant Soot Derived Nontoxic Graphene Nanosheets. ACS Sustainable Chemistry and Engineering, 2018, 6, 579-589.	3.2	96
36	Exploration of nano carbons in relevance to plant systems. New Journal of Chemistry, 2018, 42, 16411-16427.	1.4	38

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37	Sustainable Changes in the Contents of Metallic Micronutrients in First Generation Gram Seeds Imposed by Carbon Nano-onions: Life Cycle Seed to Seed Study. ACS Sustainable Chemistry and Engineering, 2017, 5, 2906-2916.	3.2	73
38	Three-dimensionally assembled Graphene/Î±-MnO 2 nanowire hybrid hydrogels for high performance supercapacitors. Materials Research Bulletin, 2017, 96, 395-404.	2.7	49
39	Green Fluorescent Onion-Like Carbon Nanoparticles from Flaxseed Oil for Visible Light Induced Photocatalytic Applications and Label-Free Detection of Al(III) Ions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3982-3992.	3.2	123
40	Pollutant Soot for Pollutant Dye Degradation: Soluble Graphene Nanosheets for Visible Light Induced Photodegradation of Methylene Blue. ACS Sustainable Chemistry and Engineering, 2017, 5, 8860-8869.	3.2	90
41	Characterization of metal, semiconductor, and metal-semiconductor coreâ€“shell nanostructures. , 2017, , 51-77.		5
42	Water Soluble Fluorescent Carbon Nanodots from Biosource for Cells Imaging. Journal of Nanomaterials, 2017, 2017, 1-10.	1.5	53
43	Sunlight-Induced Photochemical Degradation of Methylene Blue by Water-Soluble Carbon Nanorods. International Journal of Photoenergy, 2016, 2016, 1-8.	1.4	40
44	From the traditional way of pyrolysis to tunable photoluminescent water soluble carbon nano-onions for cell imaging and selective sensing of glucose. RSC Advances, 2016, 6, 37319-37329.	1.7	76
45	Recent advances in engineered graphene and composites for detection of volatile organic compounds (VOCs) and non-invasive diseases diagnosis. Carbon, 2016, 110, 97-129.	5.4	128
46	Sustainable Feasibility of the Environmental Pollutant Soot to Few-Layer Photoluminescent Graphene Nanosheets for Multifunctional Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 6399-6408.	3.2	60
47	Green synthesis of carbon quantum dots from lemon peel waste: applications in sensing and photocatalysis. RSC Advances, 2016, 6, 72423-72432.	1.7	336
48	Large-scale synthesis of soluble graphitic hollow carbon nanorods with tunable photoluminescence for the selective fluorescent detection of DNA. New Journal of Chemistry, 2016, 40, 1571-1579.	1.4	49
49	High shear-induced exfoliation of graphite into high quality graphene by Taylorâ€“Couette flow. RSC Advances, 2016, 6, 12003-12008.	1.7	83
50	Temperature dependent, shape variant synthesis of photoluminescent and biocompatible carbon nanostructures from almond husk for applications in dye removal. RSC Advances, 2016, 6, 29545-29553.	1.7	56
51	Hybrid Films of Graphene and Carbon Nanotubes for High Performance Chemical and Temperature Sensing Applications. Small, 2015, 11, 3485-3493.	5.2	54
52	A simple one-step hydrothermal route towards water solubilization of carbon quantum dots from soya-nuggets for imaging applications. RSC Advances, 2015, 5, 87528-87534.	1.7	38
53	Recent progress in micro-scale energy storage devices and future aspects. Journal of Materials Chemistry A, 2015, 3, 22507-22541.	5.2	169
54	Ferromagnetic Behaviour of Anthropogenic Multi-Walled Carbon Nanotubes Trapped in Spider Web Indoor. Journal of Nanoscience and Nanotechnology, 2014, 14, 2532-2538.	0.9	32

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55	P₂O₅ Assisted Green Synthesis of Multicolor Fluorescent Water Soluble Carbon Dots. Journal of Nanoscience and Nanotechnology, 2014, 14, 2334-2342.	0.9	36
56	Effective removal of copper ions from aqueous solution using base treated black tea waste. Ecological Engineering, 2014, 67, 127-133.	1.6	96
57	Waterâ€Induced Formation, Characterization, and Photoluminescence of Carbon Nanotubeâ€Based Composites of Gadolinium(III) and Platinum(II) Dithiolenes. Chemistry - A European Journal, 2014, 20, 16657-16661.	1.7	60
58	Pollutant soot of diesel engine exhaust transformed to carbon dots for multicoloured imaging of E. coli and sensing cholesterol. RSC Advances, 2014, 4, 30100.	1.7	81
59	Gram scale synthesis of green fluorescent water-soluble onion-like carbon nanoparticles from camphor and polystyrene foam. RSC Advances, 2014, 4, 5838.	1.7	63
60	Nanospheres of copper(iii) 1,2-dicarbomethoxy-1,2-dithiolate and its composite with water soluble carbon nanotubes. New Journal of Chemistry, 2013, 37, 2708.	1.4	38
61	Activated Graphene-Based Carbons as Supercapacitor Electrodes with Macro- and Mesopores. ACS Nano, 2013, 7, 6899-6905.	7.3	776
62	Isolation of water soluble carbon nanotubes with network structure possessing multipodal junctions and its magnetic property. RSC Advances, 2013, 3, 7306.	1.7	33
63	Aqueous Synthesis of CdTe Quantum Dot Using Dithiol-Functionalized Ionic Liquid. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	7
64	Ionic liquid-assisted microwave reduction of graphite oxide for supercapacitors. RSC Advances, 2012, 2, 8808.	1.7	37
65	Synthesis of Phase Transferable Graphene Sheets Using Ionic Liquid Polymers. ACS Nano, 2010, 4, 1612-1618.	7.3	226