Manav Saxena

List of Publications by Year
in descending order

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36 papers	1,594 citations	361413 20 h-index	361022 35 g-index
45 all docs	45 docs citations	45 times ranked	2484 citing authors

#	Article	IF	Citations
1	Chemically induced transformation of chemical vapour deposition grown bilayer graphene into fluorinated single-layer diamond. Nature Nanotechnology, 2020, 15, 59-66.	31.5	184
2	Heavily nitrogen doped, graphene supercapacitor from silk cocoon. Electrochimica Acta, 2015, 160, 244-253.	5.2	172
3	Colossal grain growth yields single-crystal metal foils by contact-free annealing. Science, 2018, 362, 1021-1025.	12.6	158
4	Carbon nanoparticles in â€˜biocharâ€™ boost wheat (Triticum aestivum) plant growth. RSC Advances, 2014, 4, 39948.	3.6	117
5	Carbon Nanoâ€onions for Imaging the Life Cycle of Drosophila Melanogaster. Small, 2011, 7, 3170-3177.	10.0	115
6	VO₂ Nanostructures for Batteries and Supercapacitors: A Review. Small, 2021, 17, e2006651.	10.0	82
7	Graphene-Based Membranes for Water and Wastewater Treatment: A Review. ACS Applied Nano Materials, 2021, 4, 3274-3293.	5.0	80
8	Facile Production of Mesoporous WO₃-rGO Hybrids for High-Performance Supercapacitor Electrodes: An Experimental and Computational Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 2350-2359.	6.7	75
9	Ironâ€“Carbon Hybrid Magnetic Nanosheets for Adsorption-Removal of Organic Dyes and 4-Nitrophenol from Aqueous Solution. ACS Applied Nano Materials, 2020, 3, 1571-1582.	5.0	72
10	Nano-iron pyrite seed dressing: a sustainable intervention to reduce fertilizer consumption in vegetable (beetroot, carrot), spice (fenugreek), fodder (alfalfa), and oilseed (mustard, sesamum) crops. Nanotechnology for Environmental Engineering, 2016, 1, 1.	3.3	65
11	Synthesis of carbogenic nanosphere from peanut skin. Diamond and Related Materials, 2012, 24, 11-14.	3.9	42
12	Modern Chemical Routes for the Controlled Synthesis of Anisotropic Bimetallic Nanostructures and Their Application in Catalysis. Frontiers in Chemistry, 2020, 8, 357.	3.6	34
13	Water soluble nanocarbons arrest the growth of mosquitoes. RSC Advances, 2013, 3, 22504.	3.6	33
14	Femtomolar detection of thiram via SERS using silver nanocubes as an efficient substrate. Environmental Science: Nano, 2020, 7, 3999-4009.	4.3	30
15	Sodide and Organic Halides Effect Covalent Functionalization of Single-Layer and Bilayer Graphene. Journal of the American Chemical Society, 2017, 139, 4202-4210.	13.7	27
16	Carbon Nanocubes and Nanobricks from Pyrolysis of Rice. Journal of Nanoscience and Nanotechnology, 2010, 10, 4064-4067.	0.9	26
17	Fluorescence imaging of human erythrocytes by carbon nanoparticles isolated from food stuff and their fluorescence enhancement by blood plasma. Materials Express, 2013, 3, 201-209.	0.5	24
18	Remarkably selective biocompatible turn-on fluorescent probe for detection of Fe³⁺ in human blood samples and cells. RSC Advances, 2019, 9, 27439-27448.	3.6	24

#	Article	IF	Citations
19	Paper based field deployable sensor for naked eye monitoring of copper (II) ions; elucidation of binding mechanism by DFT studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 223, 117291.	3.9	24
20	The seed stimulant effect of nano iron pyrite is compromised by nano cerium oxide: regulation by the trace ionic species generated in the aqueous suspension of iron pyrite. RSC Advances, 2016, 6, 67029-67038.	3.6	21
21	Non-Toxicity of Water Soluble Multi-Walled Carbon Nanotube on Escherichia-coli Colonies. Journal of Nanoscience and Nanotechnology, 2012, 12, 1754-1759.	0.9	19
22	Involuntary graphene intake with food and medicine. RSC Advances, 2014, 4, 30162.	3.6	19
23	Gold Nanorods as an Efficient Substrate for the Detection and Degradation of Pesticides. Langmuir, 2020, 36, 7332-7344.	3.5	19
24	The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water nanoemulsion separation. Journal of Water Process Engineering, 2019, 32, 100959.	5.6	16
25	Nanocomposites of carbon quantum dotsâ€“nickel(ii) dithiolene as nanolights. Journal of Materials Chemistry, 2011, 21, 19210.	6.7	15
26	Heterostructures of 2D materials-quantum dots (QDs) for optoelectronic devices: challenges and opportunities. Emergent Materials, 2021, 4, 901-922.	5.7	15
27	Co-Decorated Tellurium Nanotubes for Energy Storage Applications. ACS Applied Nano Materials, 2021, 4, 9008-9021.	5.0	15
28	Catalytic activity of Au@Cu2O core-shell nanostructure for the organic pollutant remediation. Journal of Physics and Chemistry of Solids, 2021, 152, 109935.	4.0	13
29	A Unique Bridging Facet Assembly of Gold Nanorods for the Detection of Thiram through Surface-Enhanced Raman Scattering. ACS Sustainable Chemistry and Engineering, 2022, 10, 7330-7340.	6.7	13
30	Structural insights into hydrogenated graphite prepared from fluorinated graphite through Birchâ^'type reduction. Carbon, 2017, 121, 309-321.	10.3	12
31	Nanocerium oxide increases the survival of adult rod and cone photoreceptor in culture by abrogating hydrogen peroxide-induced oxidative stress. Biointerphases, 2016, 11, 031016.	1.6	9
32	Partially Graphitized Ironâ^'Carbon Hybrid Composite as an Electrochemical Supercapacitor Material. ChemElectroChem, 2020, 7, 1928-1934.	3.4	7
33	Visible light induced degradation of pollutant dyes using a self-assembled graphene oxideâ€“molybdenum oxo-bis(dithiolene) composite. New Journal of Chemistry, 2018, 42, 14229-14238.	2.8	5
34	Biocharring of natural fibers of insect and plant origin: a green route for the production of â€˜carbon-based charge storage nanomaterialsâ€™. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	5
35	Multiwalled Carbon Nanotube-Polystyrene Composite Modified Pt Electrode as an Electrochemical Gas Sensor. Advanced Science Letters, 2011, 4, 558-560.	0.2	4
36	Life Cycle Imaging: Carbon Nano-onions for Imaging the Life Cycle of Drosophila Melanogaster (Small) Tj ETQq0 0 0 rgBT /Overlock 10 T	10.0	0