Vinay Sharma

List of Publications by Year
in descending order

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30 papers	1,198 citations	393982 19 h-index	454577 30 g-index
30 all docs	30 docs citations	30 times ranked	1682 citing authors

#	Article	IF	Citations
1	Sustainable carbon-dots: recent advances in green carbon dots for sensing and bioimaging. Journal of Materials Chemistry B, 2017, 5, 8904-8924.	2.9	370
2	Multifunctional fluorescent â€œOff-On-Offâ€•nanosensor for Au3+ and S2â^' employing N-S co-doped carbonâ€“dots. Carbon, 2018, 139, 393-403.	5.4	80
3	Cytocompatible peroxidase mimic CuO:graphene nanosphere composite as colorimetric dual sensor for hydrogen peroxide and cholesterol with its logic gate implementation. Sensors and Actuators B: Chemical, 2017, 240, 338-348.	4.0	70
4	Anticancer Activity of Iridium(III) Complexes Based on a Pyrazole-Appended Quinoline-Based BODIPY. Inorganic Chemistry, 2017, 56, 12232-12247.	1.9	69
5	Metalâ€“organic framework based antibiotic release and antimicrobial response: an overview. CrystEngComm, 2020, 22, 7513-7527.	1.3	49
6	Bioinspired carbon dots: from rose petals to tunable emissive nanodots. Nanoscale Advances, 2019, 1, 1290-1296.	2.2	47
7	â€œVigna radiataâ€•based green C-dots: Photo-triggered theranostics, fluorescent sensor for extracellular and intracellular iron (III) and multicolor live cell imaging probe. Sensors and Actuators B: Chemical, 2019, 291, 275-286.	4.0	45
8	The synthesis and characterization of carbon dots and their application in dye sensitized solar cell. International Journal of Hydrogen Energy, 2019, 44, 14580-14587.	3.8	42
9	Full color emitting fluorescent carbon material as reversible pH sensor with multicolor live cell imaging. Journal of Photochemistry and Photobiology B: Biology, 2018, 182, 137-145.	1.7	36
10	The development of fluorescence turn-on probe for Al(III) sensing and live cell nucleus-nucleoli staining. Scientific Reports, 2016, 6, 34807.	1.6	35
11	Varying structural motifs in the salen based metal complexes of Co(<scp>ii</scp>), Ni(<scp>ii</scp>) and Cu(<scp>ii</scp>): synthesis, crystal structures, molecular dynamics and biological activities. Dalton Transactions, 2016, 45, 19096-19108.	1.6	34
12	A highly selective, sensitive and reversible fluorescence chemosensor for Zn²⁺ and its cell viability. Dalton Transactions, 2016, 45, 3927-3935.	1.6	34
13	Optical nanosensors based on fluorescent carbon dots for the detection of water contaminants: a review. Environmental Chemistry Letters, 2021, 19, 3229-3241.	8.3	33
14	Pyrazole appended quinoline-BODIPY based arene ruthenium complexes: their anticancer activity and potential applications in cellular imaging. Dalton Transactions, 2018, 47, 17500-17514.	1.6	32
15	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging. Sensors and Actuators B: Chemical, 2019, 281, 613-622.	4.0	27
16	Cannabis sativa-derived carbon dots co-doped with Nâ€“S: highly efficient nanosensors for temperature and vitamin B₁₂. New Journal of Chemistry, 2019, 43, 17058-17068.	1.4	25
17	Recent advances in near infrared light responsive multi-functional nanostructures for phototheranostic applications. Biomaterials Science, 2021, 9, 5472-5483.	2.6	24
18	Fabrication of innovative ZnO nanoflowers showing drastic biological activity. New Journal of Chemistry, 2016, 40, 2145-2155.	1.4	23

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19	1,8â€Naphthalimideâ€Substituted BODIPY Dyads: Synthesis, Structure, Properties, and Liveâ€Cell Imaging. Chemistry - an Asian Journal, 2018, 13, 2881-2890.	1.7	23
20	AIE active piperazine appended naphthalimide-BODIPYs: photophysical properties and applications in live cell lysosomal tracking. Analyst, The, 2019, 144, 331-341.	1.7	18
21	Sustainable Graphene Production: New Insights into Cannabis sativa Engineered Carbon Dots Based Exfoliating Agent for Facile Production of Graphene. ACS Sustainable Chemistry and Engineering, 2019, 7, 11500-11510.	3.2	18
22	Aggregation tailored emission of a benzothiazole based derivative: photostable turn on bioimaging. RSC Advances, 2019, 9, 39970-39975.	1.7	16
23	The emergence of carbon-dots for optical molecular electronics: from sensors to logic gates, memory devices, and security. Journal of Materials Chemistry C, 2021, 9, 16828-16842.	2.7	14
24	Photoactivatable carbon dots as a label-free fluorescent probe for picric acid detection and light-induced bacterial inactivation. Journal of Photochemistry and Photobiology B: Biology, 2022, 229, 112412.	1.7	10
25	High-yield graphene produced from the synergistic effect of inflated temperature and gelatin offers high stability and cellular compatibility. Physical Chemistry Chemical Physics, 2018, 20, 20096-20107.	1.3	7
26	Pressure-Biased Nanopores for Excluded Volume Metrology, Lipid Biomechanics, and Cell-Adhesion Rupturing. ACS Nano, 2021, 15, 17947-17958.	7.3	5
27	Protein and DNA Yield Current Enhancements, Slow Translocations, and an Enhanced Signal-to-Noise Ratio under a Salt Imbalance. ACS Sensors, 2022, 7, 1883-1893.	4.0	5
28	DNA Coil Dynamics and Hydrodynamic Gating of Pressureâ€Biased Nanopores. Small, 2022, 18, e2106803.	5.2	3
29	Constricted Apertures for Dynamic Trapping and Micro-/Nanoscale Discrimination Based on Recapture Kinetics. Nano Letters, 2021, 21, 3364-3371.	4.5	2
30	Carbon Nanolights as Optical Nanosensors for Water Contaminants. Environmental Chemistry for A Sustainable World, 2020, , 157-196.	0.3	2