Abhay Sachdev

List of Publications by Year
in descending order

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28 papers	1,603 citations	471509 17 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	2552 citing authors

#	Article	IF	Citations
1	Biomaterials-Based Regenerative Strategies for Skin Tissue Wound Healing. ACS Applied Bio Materials, 2022, 5, 2069-2106.	4.6	46
2	An electrochemical sensor based on cobalt oxyhydroxide nanoflakes/reduced graphene oxide nanocomposite for detection of illicit drug-clonazepam. Journal of Electroanalytical Chemistry, 2022, 919, 116537.	3.8	9
3	Dual-emission copper nanoclustersâ€"based ratiometric fluorescent probe for intracellular detection of hydroxyl and superoxide anion species. Mikrochimica Acta, 2021, 188, 13.	5.0	16
4	Toward Designing of Anti-infective Hydrogels for Orthopedic Implants: From Lab to Clinic. ACS Biomaterials Science and Engineering, 2021, 7, 1933-1961.	5.2	25
5	GNP-CeO2- polyaniline hybrid hydrogel for electrochemical detection of peroxynitrite anion and its integration in a microfluidic platform. Mikrochimica Acta, 2021, 188, 436.	5.0	8
6	Near-infrared stimulated hydrogel patch for photothermal therapeutics and thermoresponsive drug delivery. Journal of Photochemistry and Photobiology B: Biology, 2020, 210, 111960.	3.8	28
7	PMAA-CeO2 nanoparticle-based paper microfluidic device with customized image processing software for antioxidant assay. Analytical and Bioanalytical Chemistry, 2020, 412, 8197-8209.	3.7	5
8	Tragacanth Hydrogel Integrated CeO₂@rGO Nanocomposite as Reusable Photocatalysts for Organic Dye Degradation. ChemistrySelect, 2020, 5, 10663-10672.	1.5	13
9	Phytogreen synthesis of multifunctional nano selenium with antibacterial and antioxidant implications. Nano Express, 2020, 1, 010031.	2.4	15
10	Self-assembled reduced graphene oxideâ€"cerium oxide nanocomposite@cytochromechydrogel as a solid electrochemical reactive oxygen species detection platform. New Journal of Chemistry, 2020, 44, 11248-11255.	2.8	10
11	Label-free fluorescence â€œturn-onâ€•detection of SO₃^{2â^'} by gold nanoclusters: integration in a hydrogel platform and intracellular detection. Analytical Methods, 2019, 11, 1214-1223.	2.7	11
12	PEG functionalized zirconium dicarboxylate MOFs for docetaxel drug delivery in vitro. Journal of Drug Delivery Science and Technology, 2019, 52, 846-855.	3.0	28
13	Ethylenediamine mediated luminescence enhancement of pollutant derivatized carbon quantum dots for intracellular trinitrotoluene detection: soot to shine. RSC Advances, 2018, 8, 32684-32694.	3.6	39
14	Photophysics, Electrochemistry, Morphology, and Bioimaging Applications of New 1,8â€Naphthalimide Derivatives Containing Different Chromophores. Chemistry - an Asian Journal, 2017, 12, 2612-2622.	3.3	16
15	Cold atmospheric pressure (CAP) plasma assisted tailoring of LDPE film surfaces for enhancement of adhesive and cytocompatible properties: Influence of operating parameters. Vacuum, 2016, 130, 34-47.	3.5	7
16	Monitoring the Intracellular Distribution and ROS Scavenging Potential of Carbon Dotâ€"Cerium Oxide Nanocomposites in Fibroblast Cells. ChemNanoMat, 2016, 2, 226-235.	2.8	19
17	Carbon dots incorporated polymeric hydrogels as multifunctional platform for imaging and induction of apoptosis in lung cancer cells. Colloids and Surfaces B: Biointerfaces, 2016, 141, 242-252.	5.0	70
18	Bionanotherapeutics: niclosamide encapsulated albumin nanoparticles as a novel drug delivery system for cancer therapy. RSC Advances, 2015, 5, 12078-12086.	3.6	54

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19	Multicomponent 5-fluorouracil loaded PAMAM stabilized-silver nanocomposites synergistically induce apoptosis in human cancer cells. Biomaterials Science, 2015, 3, 457-468.	5.4	60
20	Green synthesis of multifunctional carbon dots from coriander leaves and their potential application as antioxidants, sensors and bioimaging agents. Analyst, The, 2015, 140, 4260-4269.	3.5	412
21	Cancer Nanotheranostics. SpringerBriefs in Applied Sciences and Technology, 2015, , .	0.4	6
22	Perturbation of cellular mechanistic system by silver nanoparticle toxicity: Cytotoxic, genotoxic and epigenetic potentials. Advances in Colloid and Interface Science, 2015, 221, 4-21.	14.7	109
23	Self-Assembled Hybrids of Fluorescent Carbon Dots and PAMAM Dendrimers for Epirubicin Delivery and Intracellular Imaging. ACS Applied Materials & Interfaces, 2015, 7, 11423-11435.	8.0	82
24	Dual-functional carbon dotsâ€“silver@zinc oxide nanocomposite: in vitro evaluation of cellular uptake and induction of apoptosis. Journal of Materials Chemistry B, 2015, 3, 1217-1229.	5.8	39
25	Antibacterial activity and mechanism of Agâ€“ZnO nanocomposite on S. aureus and GFP-expressing antibiotic resistant E. coli. Colloids and Surfaces B: Biointerfaces, 2014, 115, 359-367.	5.0	231
26	Implications of surface passivation on physicochemical and bioimaging properties of carbon dots. RSC Advances, 2014, 4, 20915-20921.	3.6	112
27	Ferritin Nanocages: A Novel Platform for Biomedical Applications. Journal of Biomedical Nanotechnology, 2014, 10, 2950-2976.	1.1	50
28	A novel one-step synthesis of PEG passivated multicolour fluorescent carbon dots for potential biolabeling application. RSC Advances, 2013, 3, 16958.	3.6	83