Sudeshna Chandra

List of Publications by Year
in descending order

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75 papers	2,768 citations	236612 25 h-index	182168 51 g-index
75 all docs	75 docs citations	75 times ranked	3703 citing authors

#	Article	IF	Citations
1	Preparation of microcapsule suspension of herbicide oxyfluorfen polyurea and its effects on phytotoxicity on rice crop. Journal of Dispersion Science and Technology, 2023, 44, 475-486.	1.3	4
2	Unravelling the structuralâ€property relations of porphyrinoids with respect to photoâ€•and electroâ€chemical activities. Electrochemical Science Advances, 2023, 3, .	1.2	10
3	Smart releasing CuS/ZnS nanocomposite dual drug carrier and photothermal agent for use as a theranostic tool for cancer therapy. Journal of Drug Delivery Science and Technology, 2022, 70, 103252.	1.4	5
4	Review on emergence of nanomaterial coatings in bio-engineered cardiovascular stents. Journal of Drug Delivery Science and Technology, 2022, 70, 103224.	1.4	6
5	Upconversion nanoparticles: Recent strategies and mechanism based applications. Journal of Rare Earths, 2022, 40, 1343-1359.	2.5	22
6	Porous Silica Support for Immobilizing Chiral Metal Catalyst: Unravelling the Activity of Catalyst on Asymmetric Organic Transformations. ChemistrySelect, 2022, 7, .	0.7	4
7	Inkjet printed patterns of polyamidoamine dendrimer functionalized magnetic nanostructures for future biosensing device application. Journal of Materials Science, 2021, 56, 5802-5816.	1.7	4
8	Chapter 11. Porphyrinoids in Association with Nanomaterials for Water Purification. RSC Smart Materials, 2021, , 328-351.	0.1	0
9	Chiral salen - Ni (II) based spherical porous silica as platform for asymmetric transfer hydrogenation reaction and synthesis of potent drug intermediate montekulast. Molecular Catalysis, 2021, 502, 111367.	1.0	6
10	Release behavior of oxyfluorfen polyurea capsules prepared using PVA and kraft lignin as emulsifying agents and phytotoxicity study on paddy. Green Chemistry Letters and Reviews, 2021, 14, 204-220.	2.1	5
11	Understanding Physico-chemical Interactions of Dendrimers with Guest Molecules for Efficient Drug and Gene Delivery. Current Pathobiology Reports, 2021, 9, 57-70.	1.6	2
12	Single-step synthesis of novel chloroaluminate ionic liquid for green Friedelâ€“Crafts alkylation reaction. Clean Technologies and Environmental Policy, 2020, 22, 59-71.	2.1	11
13	Design and application of polyurea microcapsules containing herbicide (oxyfluorfen). Designed Monomers and Polymers, 2020, 23, 155-163.	0.7	8
14	Deep compositional understanding of TBA: AlCl3 ionic liquid for its applications. Journal of Molecular Structure, 2020, 1222, 128936.	1.8	2
15	Inorganic hybrid nanoparticles in cancer theranostics: understanding their combinations for better clinical translation. Materials Today Chemistry, 2020, 18, 100381.	1.7	24
16	Nano-flowered manganese doped ferrite@PANI composite as energy storage electrode material for supercapacitors. Journal of Electroanalytical Chemistry, 2020, 874, 114491.	1.9	22
17	Facile and Selective Mono Benzylation of Naphthalene Using Atom Efficient Chloroaluminate Ionic Liquid. Polycyclic Aromatic Compounds, 2020, , 1-11.	1.4	0
18	Regeneration of hyaline cartilage in osteochondral lesion model using Lâ€lysine magnetic nanoparticles labeled mesenchymal stem cells and their in vivo imaging. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1604-1617.	1.3	8

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19	Polyâ€amidoamine Dendrimers@Fe3O4Based Electrochemiluminescent Nanomaterials for Biosensing of Liver Cancer Biomarkers. Electroanalysis, 2020, 32, 2404-2414.	1.5	5
20	Simultaneous voltammetric immunodetection of alpha-fetoprotein and glypican-3 using a glassy carbon electrode modified with magnetite-conjugated dendrimers. Mikrochimica Acta, 2019, 186, 255.	2.5	25
21	Copper Doped Manganese Ferrites PANI for Fabrication of Binder-Free Nanohybrid Symmetrical Supercapacitors. Journal of the Electrochemical Society, 2019, 166, A1154-A1159.	1.3	7
22	A comprehensive toxicity evaluation of novel amino acid-modified magnetic ferrofluids for magnetic resonance imaging. Amino Acids, 2019, 51, 929-943.	1.2	9
23	Investigation of HSA as a biocompatible coating material for arsenic trioxide nanoparticles. Nanoscale, 2018, 10, 8031-8041.	2.8	20
24	Electrochemical performance of MnFe 2 O 4 nano-ferrites synthesized using thermal decomposition method. International Journal of Hydrogen Energy, 2018, 43, 4058-4066.	3.8	48
25	Detailed toxicity evaluation of Î²-cyclodextrin coated iron oxide nanoparticles for biomedical applications. International Journal of Biological Macromolecules, 2018, 110, 357-365.	3.6	38
26	PAMAM dendrimers: A multifunctional nanomaterial for ECL biosensors. Talanta, 2017, 168, 126-129.	2.9	26
27	Electrochemistry and surface-enhanced Raman spectroscopy of CTAB modulated interactions of magnetic nanoparticles with biomolecules. RSC Advances, 2017, 7, 3628-3634.	1.7	14
28	Novel thermoresponsive assemblies of co-grafted natural and synthetic polymers for water purification. Water Science and Technology, 2017, 75, 1084-1097.	1.2	7
29	Fabrication of a label-free electrochemical immunosensor using a redox active ferrocenyl dendrimer. New Journal of Chemistry, 2016, 40, 9046-9053.	1.4	16
30	Synthesis and Characterization of Arsenic Trioxide Nanoparticles and Their <I>In Vitro</I> Cytotoxicity Studies on Mouse Fibroblast and Prostate Cancer Cell Lines. Journal of Nanoscience and Nanotechnology, 2016, 16, 7599-7605.	0.9	4
31	Dendrimers: New tool for enhancement of electrochemiluminescent signal. Journal of Organometallic Chemistry, 2016, 821, 78-90.	0.8	14
32	Biomagnetic interaction of functionalized iron oxide nanoparticles with bovine serum albumin. Biomedical Research Journal, 2016, 3, 229.	0.4	1
33	Dendrimer-functionalized magnetic nanoparticles: A new electrode material for electrochemical energy storage devices. Journal of Power Sources, 2015, 280, 217-226.	4.0	68
34	Effect of HSA coated iron oxide labeling on human umbilical cord derived mesenchymal stem cells. Nanotechnology, 2015, 26, 125103.	1.3	11
35	Mechanistic insights into the interactions of magnetic nanoparticles with bovine serum albumin in presence of surfactants. Colloids and Surfaces B: Biointerfaces, 2015, 135, 596-603.	2.5	34
36	Dendrimer-magnetic nanoparticles as multiple stimuli responsive and enzymatic drug delivery vehicle. Journal of Magnetism and Magnetic Materials, 2015, 380, 7-12.	1.0	28

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37	Fabrication of a porphyrin-based electrochemical biosensor for detection of nitric oxide released by cancer cells. Journal of Solid State Electrochemistry, 2015, 19, 169-177.	1.2	21
38	Cellular internalization and detailed toxicity analysis of protein-immobilized iron oxide nanoparticles. , 2015, 103, 125-134.		25
39	Dendrimers based electrochemical biosensors. Biomedical Research Journal, 2015, 2, 21.	0.4	6
40	Combining Unique Properties of Dendrimers and Magnetic Nanoparticles Towards Cancer Theranostics. Journal of Biomedical Nanotechnology, 2014, 10, 32-49.	0.5	24
41	Poly(ethylene glycol)-Modified PAMAM-Fe₃O₄-Doxorubicin Triads with the Potential for Improved Therapeutic Efficacy: Generation-Dependent Increased Drug Loading and Retention at Neutral pH and Increased Release at Acidic pH. Langmuir, 2014, 30, 1004-1011.	1.6	41
42	SnO₂ Quantum Dots-Reduced Graphene Oxide Composite for Enzyme-Free Ultrasensitive Electrochemical Detection of Urea. Analytical Chemistry, 2014, 86, 5914-5921.	3.2	80
43	Polyaniline-iron oxide nanohybrid film as multi-functional label-free electrochemical and biomagnetic sensor for catechol. Analytica Chimica Acta, 2013, 795, 8-14.	2.6	31
44	Design of an Amperometric Glucose Biosensor Based on Glucose Oxidase/Arginated-Fe₃O₄/Glassy Carbon Electrode. Science of Advanced Materials, 2013, 5, 333-340.	0.1	3
45	Fabrication of a Glucose Biosensor Based on Citric Acid Assisted Cobalt Ferrite Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 6631-6638.	0.9	17
46	Dendrimer facilitated synthesis of multifunctional lanthanide based hybrid nanomaterials for biological applications. Journal of Materials Chemistry, 2012, 22, 3395.	6.7	31
47	Impedimetric biosensor based on magnetic nanoparticles for electrochemical detection of dopamine. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1531-1537.	1.7	36
48	Structural, magnetic, and textural properties of iron oxide-reduced graphene oxide hybrids and their use for the electrochemical detection of chromium. Carbon, 2012, 50, 4209-4219.	5.4	151
49	Design, characterization and magnetic properties of Fe3O4-nanoparticle arrays coated with PEGylated-dendrimers. Materials Chemistry and Physics, 2012, 132, 292-299.	2.0	52
50	Impedimetric biosensor for early detection of cervical cancer. Chemical Communications, 2011, 47, 11258.	2.2	35
51	Dendrimerâ€“Doxorubicin conjugate for enhanced therapeutic effects for cancer. Journal of Materials Chemistry, 2011, 21, 5729.	6.7	109
52	Anion recognition through amide-based dendritic molecule: A poly(vinyl chloride) based sensor for nitrate ion. Talanta, 2011, 85, 970-974.	2.9	22
53	Oxide and hybrid nanostructures for therapeutic applications. Advanced Drug Delivery Reviews, 2011, 63, 1267-1281.	6.6	115
54	Crown ether-dendrimer based potentiometric Na+ sensor electrode. Journal of Electroanalytical Chemistry, 2011, 651, 185-190.	1.9	12

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55	IMMOBILIZATION OF BSA ON DENDRIMER FUNCTIONALIZED MAGNETIC NANOPARTICLES. International Journal of Nanoscience, 2011, 10, 919-923.	0.4	1
56	Dendritic magnetite nanocarriers for drug delivery applications. New Journal of Chemistry, 2010, 34, 648.	1.4	70
57	Silacrown end-grafted carbosilane dendrimers as stabilizers for Ag and Au nanoparticles: Synthesis, Langmuirâ€“Blodgett film formations. Materials Chemistry and Physics, 2009, 114, 926-932.	2.0	9
58	Iodide recognition by the N,N-bis-succinamide-based dendritic molecule [CH2C(O)NHC(CH2CH2C(O)OtBu)3]2. Sensors and Actuators B: Chemical, 2009, 137, 350-356.	4.0	13
59	Dendrimer-rhodium nanoparticle modified glassy carbon electrode for amperometric detection of hydrogen peroxide. Analytica Chimica Acta, 2009, 632, 63-68.	2.6	41
60	Synthesis of phthalocyanine stabilized rhodium nanoparticles and their application in biosensing of cytochrome c. Bioelectrochemistry, 2009, 75, 104-109.	2.4	34
61	A 15-crown-5-functionalized carbosilane dendrimer as ionophore for ammonium selective electrodes. Talanta, 2006, 70, 1087-1093.	2.9	23
62	Triethylene Glycol Ether End-grafted Carbosilane Dendrimer: A Potential Ionophore for Potassium Ion Recognition. Analytical Sciences, 2006, 22, 1327-1332.	0.8	7
63	Organotin compounds: An ionophore system for fluoride ion recognition. Analytica Chimica Acta, 2006, 577, 91-97.	2.6	32
64	A new sodium ion selective electrode based on a novel silacrown ether. Sensors and Actuators B: Chemical, 2006, 114, 849-854.	4.0	28
65	Lithium-selective potentiometric sensor based on a second generation carbosiloxane dendrimer. Sensors and Actuators B: Chemical, 2005, 107, 762-767.	4.0	41
66	A highly selective mercury electrode based on a diamine donor ligand. Talanta, 2005, 66, 575-580.	2.9	221
67	Chemical sensor for lanthanum(III) determination using aza-crown as ionophore in poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	229
68	Removal of lindane and malathion from wastewater using bagasse fly ashâ€”a sugar industry waste. Water Research, 2002, 36, 2483-2490.	5.3	350
69	Membranes of 5,10,15,20-Tetrakis(4-Methoxyphenyl) Porphyrinatocobalt (TMOPP-Co) (I) as MoO42- - Selective Sensors. Sensors, 2002, 2, 164-173.	2.1	20
70	Polystyrene Based Silver Selective Electrodes. Sensors, 2002, 2, 233-243.	2.1	20
71	Dicyclohexano-18-crown-6 as active material in PVC matrix membrane for the fabrication of cadmium selective potentiometric sensor. Electrochimica Acta, 2002, 47, 1579-1586.	2.6	268
72	Poly(vinyl chloride)-based macrocyclic membrane sensors for magnesium. Talanta, 1999, 50, 499-508.	2.9	11

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73	A New Macrocyclic Ligand-Based Sensor for Nickel(II) Ions. Bulletin of the Chemical Society of Japan, 1997, 70, 2995-2999.	2.0	10
74	Synthesis, Characterisation and Kinetic Studies of Acid-promoted Dissociation Reactions of the Nickel(II) Complex of a [Me4(14)-tetraene-N4] Macrocyclic Ligand. Journal of Chemical Research Synopses, 1997, , 227-227.	0.3	1
75	A new macrocyclic polystyrene based membrane sensor for zinc. Electroanalysis, 1997, 9, 1005-1008.	1.5	10