

Sudeshna Chandra

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Removal of lindane and malathion from wastewater using bagasse fly ash as a sugar industry waste. <i>Water Research</i> , 2002, 36, 2483-2490. | 5.3 | 350 |
| 2 | Dicyclohexano-18-crown-6 as active material in PVC matrix membrane for the fabrication of cadmium selective potentiometric sensor. <i>Electrochimica Acta</i> , 2002, 47, 1579-1586. | 2.6 | 268 |
| 3 | Chemical sensor for lanthanum(III) determination using aza-crown as ionophore in poly(vinyl) Tj ETQq1 1 0.784314,rgBT /Overlock 10 | 2.8 | 229 |
| 4 | A highly selective mercury electrode based on a diamine donor ligand. <i>Talanta</i> , 2005, 66, 575-580. | 2.9 | 221 |
| 5 | Structural, magnetic, and textural properties of iron oxide-reduced graphene oxide hybrids and their use for the electrochemical detection of chromium. <i>Carbon</i> , 2012, 50, 4209-4219. | 5.4 | 151 |
| 6 | Oxide and hybrid nanostructures for therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1267-1281. | 6.6 | 115 |
| 7 | Dendrimer-Doxorubicin conjugate for enhanced therapeutic effects for cancer. <i>Journal of Materials Chemistry</i> , 2011, 21, 5729. | 6.7 | 109 |
| 8 | SnO ₂ Quantum Dots-Reduced Graphene Oxide Composite for Enzyme-Free Ultrasensitive Electrochemical Detection of Urea. <i>Analytical Chemistry</i> , 2014, 86, 5914-5921. | 3.2 | 80 |
| 9 | Dendritic magnetite nanocarriers for drug delivery applications. <i>New Journal of Chemistry</i> , 2010, 34, 648. | 1.4 | 70 |
| 10 | Dendrimer-functionalized magnetic nanoparticles: A new electrode material for electrochemical energy storage devices. <i>Journal of Power Sources</i> , 2015, 280, 217-226. | 4.0 | 68 |
| 11 | Design, characterization and magnetic properties of Fe ₃ O ₄ -nanoparticle arrays coated with PEGylated-dendrimers. <i>Materials Chemistry and Physics</i> , 2012, 132, 292-299. | 2.0 | 52 |
| 12 | Electrochemical performance of MnFe ₂ O ₄ nano-ferrites synthesized using thermal decomposition method. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4058-4066. | 3.8 | 48 |
| 13 | Lithium-selective potentiometric sensor based on a second generation carbosiloxane dendrimer. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 762-767. | 4.0 | 41 |
| 14 | Dendrimer-rhodium nanoparticle modified glassy carbon electrode for amperometric detection of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2009, 632, 63-68. | 2.6 | 41 |
| 15 | Poly(ethylene glycol)-Modified PAMAM-Fe ₃ O ₄ -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. <i>Langmuir</i> , 2014, 30, 1004-1011. | 1.6 | 41 |
| 16 | Detailed toxicity evaluation of Î²-cyclodextrin coated iron oxide nanoparticles for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 357-365. | 3.6 | 38 |
| 17 | Impedimetric biosensor based on magnetic nanoparticles for electrochemical detection of dopamine. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1531-1537. | 1.7 | 36 |
| 18 | Impedimetric biosensor for early detection of cervical cancer. <i>Chemical Communications</i> , 2011, 47, 11258. | 2.2 | 35 |

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|----|---|-----|-----------|
| 19 | Synthesis of phthalocyanine stabilized rhodium nanoparticles and their application in biosensing of cytochrome c. <i>Bioelectrochemistry</i> , 2009, 75, 104-109. | 2.4 | 34 |
| 20 | Mechanistic insights into the interactions of magnetic nanoparticles with bovine serum albumin in presence of surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 596-603. | 2.5 | 34 |
| 21 | Organotin compounds: An ionophore system for fluoride ion recognition. <i>Analytica Chimica Acta</i> , 2006, 577, 91-97. | 2.6 | 32 |
| 22 | Dendrimer facilitated synthesis of multifunctional lanthanide based hybrid nanomaterials for biological applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 3395. | 6.7 | 31 |
| 23 | Polyaniline-iron oxide nanohybrid film as multi-functional label-free electrochemical and biomagnetic sensor for catechol. <i>Analytica Chimica Acta</i> , 2013, 795, 8-14. | 2.6 | 31 |
| 24 | A new sodium ion selective electrode based on a novel silacrown ether. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 849-854. | 4.0 | 28 |
| 25 | Dendrimer-magnetic nanoparticles as multiple stimuli responsive and enzymatic drug delivery vehicle. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 7-12. | 1.0 | 28 |
| 26 | PAMAM dendrimers: A multifunctional nanomaterial for ECL biosensors. <i>Talanta</i> , 2017, 168, 126-129. | 2.9 | 26 |
| 27 | Cellular internalization and detailed toxicity analysis of protein-immobilized iron oxide nanoparticles. , 2015, 103, 125-134. | | 25 |
| 28 | Simultaneous voltammetric immunodetection of alpha-fetoprotein and glypican-3 using a glassy carbon electrode modified with magnetite-conjugated dendrimers. <i>Mikrochimica Acta</i> , 2019, 186, 255. | 2.5 | 25 |
| 29 | Combining Unique Properties of Dendrimers and Magnetic Nanoparticles Towards Cancer Theranostics. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 32-49. | 0.5 | 24 |
| 30 | Inorganic hybrid nanoparticles in cancer theranostics: understanding their combinations for better clinical translation. <i>Materials Today Chemistry</i> , 2020, 18, 100381. | 1.7 | 24 |
| 31 | A 15-crown-5-functionalized carbosilane dendrimer as ionophore for ammonium selective electrodes. <i>Talanta</i> , 2006, 70, 1087-1093. | 2.9 | 23 |
| 32 | Anion recognition through amide-based dendritic molecule: A poly(vinyl chloride) based sensor for nitrate ion. <i>Talanta</i> , 2011, 85, 970-974. | 2.9 | 22 |
| 33 | Nano-flowered manganese doped ferrite@PANI composite as energy storage electrode material for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114491. | 1.9 | 22 |
| 34 | Upconversion nanoparticles: Recent strategies and mechanism based applications. <i>Journal of Rare Earths</i> , 2022, 40, 1343-1359. | 2.5 | 22 |
| 35 | Fabrication of a porphyrin-based electrochemical biosensor for detection of nitric oxide released by cancer cells. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 169-177. | 1.2 | 21 |
| 36 | Membranes of 5,10,15,20-Tetrakis(4-Methoxyphenyl) Porphyrinatocobalt (TMOPP-Co) (I) as MoO4 ²⁻ - Selective Sensors. <i>Sensors</i> , 2002, 2, 164-173. | 2.1 | 20 |

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|----|---|-----|-----------|
| 37 | Polystyrene Based Silver Selective Electrodes. <i>Sensors</i> , 2002, 2, 233-243. | 2.1 | 20 |
| 38 | Investigation of HSA as a biocompatible coating material for arsenic trioxide nanoparticles. <i>Nanoscale</i> , 2018, 10, 8031-8041. | 2.8 | 20 |
| 39 | Fabrication of a Glucose Biosensor Based on Citric Acid Assisted Cobalt Ferrite Magnetic Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6631-6638. | 0.9 | 17 |
| 40 | Fabrication of a label-free electrochemical immunosensor using a redox active ferrocenyl dendrimer. <i>New Journal of Chemistry</i> , 2016, 40, 9046-9053. | 1.4 | 16 |
| 41 | Dendrimers: New tool for enhancement of electrochemiluminescent signal. <i>Journal of Organometallic Chemistry</i> , 2016, 821, 78-90. | 0.8 | 14 |
| 42 | Electrochemistry and surface-enhanced Raman spectroscopy of CTAB modulated interactions of magnetic nanoparticles with biomolecules. <i>RSC Advances</i> , 2017, 7, 3628-3634. | 1.7 | 14 |
| 43 | Iodide recognition by the N,N-bis-succinamide-based dendritic molecule [CH ₂ C(O)NHC(CH ₂ CH ₂ C(O)OtBu) ₃] ₂ . <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 350-356. | 4.0 | 13 |
| 44 | Crown ether-dendrimer based potentiometric Na ⁺ sensor electrode. <i>Journal of Electroanalytical Chemistry</i> , 2011, 651, 185-190. | 1.9 | 12 |
| 45 | Poly(vinyl chloride)-based macrocyclic membrane sensors for magnesium. <i>Talanta</i> , 1999, 50, 499-508. | 2.9 | 11 |
| 46 | Effect of HSA coated iron oxide labeling on human umbilical cord derived mesenchymal stem cells. <i>Nanotechnology</i> , 2015, 26, 125103. | 1.3 | 11 |
| 47 | Single-step synthesis of novel chloroaluminate ionic liquid for green Friedel-Crafts alkylation reaction. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 59-71. | 2.1 | 11 |
| 48 | A New Macrocyclic Ligand-Based Sensor for Nickel(II) Ions. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 2995-2999. | 2.0 | 10 |
| 49 | A new macrocyclic polystyrene based membrane sensor for zinc. <i>Electroanalysis</i> , 1997, 9, 1005-1008. | 1.5 | 10 |
| 50 | Unravelling the structural-property relations of porphyrinoids with respect to photo- and electro-chemical activities. <i>Electrochemical Science Advances</i> , 2023, 3, . | 1.2 | 10 |
| 51 | Silacrown end-grafted carbosilane dendrimers as stabilizers for Ag and Au nanoparticles: Synthesis, Langmuir-Blodgett film formations. <i>Materials Chemistry and Physics</i> , 2009, 114, 926-932. | 2.0 | 9 |
| 52 | A comprehensive toxicity evaluation of novel amino acid-modified magnetic ferrofluids for magnetic resonance imaging. <i>Amino Acids</i> , 2019, 51, 929-943. | 1.2 | 9 |
| 53 | Design and application of polyurea microcapsules containing herbicide (oxyfluorfen). <i>Designed Monomers and Polymers</i> , 2020, 23, 155-163. | 0.7 | 8 |
| 54 | Regeneration of hyaline cartilage in osteochondral lesion model using L-lysine magnetic nanoparticles labeled mesenchymal stem cells and their in vivo imaging. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1604-1617. | 1.3 | 8 |

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|----|--|-----|-----------|
| 55 | Triethylene Glycol Ether End-grafted Carbosilane Dendrimer: A Potential Ionophore for Potassium Ion Recognition. <i>Analytical Sciences</i> , 2006, 22, 1327-1332. | 0.8 | 7 |
| 56 | Novel thermoresponsive assemblies of co-grafted natural and synthetic polymers for water purification. <i>Water Science and Technology</i> , 2017, 75, 1084-1097. | 1.2 | 7 |
| 57 | Copper Doped Manganese Ferrites PANI for Fabrication of Binder-Free Nanohybrid Symmetrical Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1154-A1159. | 1.3 | 7 |
| 58 | Chiral salen - Ni (II) based spherical porous silica as platform for asymmetric transfer hydrogenation reaction and synthesis of potent drug intermediate montelukast. <i>Molecular Catalysis</i> , 2021, 502, 111367. | 1.0 | 6 |
| 59 | Dendrimers based electrochemical biosensors. <i>Biomedical Research Journal</i> , 2015, 2, 21. | 0.4 | 6 |
| 60 | Review on emergence of nanomaterial coatings in bio-engineered cardiovascular stents. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103224. | 1.4 | 6 |
| 61 | Polyamidoamine Dendrimers@Fe ₃ O ₄ Based Electrochemiluminescent Nanomaterials for Biosensing of Liver Cancer Biomarkers. <i>Electroanalysis</i> , 2020, 32, 2404-2414. | 1.5 | 5 |
| 62 | Release behavior of oxyfluorfen polyurea capsules prepared using PVA and kraft lignin as emulsifying agents and phytotoxicity study on paddy. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 204-220. | 2.1 | 5 |
| 63 | Smart releasing CuS/ZnS nanocomposite dual drug carrier and photothermal agent for use as a theranostic tool for cancer therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103252. | 1.4 | 5 |
| 64 | Synthesis and Characterization of Arsenic Trioxide Nanoparticles and Their <i>In Vitro</i> Cytotoxicity Studies on Mouse Fibroblast and Prostate Cancer Cell Lines. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7599-7605. | 0.9 | 4 |
| 65 | Inkjet printed patterns of polyamidoamine dendrimer functionalized magnetic nanostructures for future biosensing device application. <i>Journal of Materials Science</i> , 2021, 56, 5802-5816. | 1.7 | 4 |
| 66 | Preparation of microcapsule suspension of herbicide oxyfluorfen polyurea and its effects on phytotoxicity on rice crop. <i>Journal of Dispersion Science and Technology</i> , 2023, 44, 475-486. | 1.3 | 4 |
| 67 | Porous Silica Support for Immobilizing Chiral Metal Catalyst: Unravelling the Activity of Catalyst on Asymmetric Organic Transformations. <i>ChemistrySelect</i> , 2022, 7, . | 0.7 | 4 |
| 68 | Design of an Amperometric Glucose Biosensor Based on Glucose Oxidase/Arginated-Fe ₃ O ₄ /Glassy Carbon Electrode. <i>Science of Advanced Materials</i> , 2013, 5, 333-340. | 0.1 | 3 |
| 69 | Deep compositional understanding of TBA: AlCl ₃ ionic liquid for its applications. <i>Journal of Molecular Structure</i> , 2020, 1222, 128936. | 1.8 | 2 |
| 70 | Understanding Physico-chemical Interactions of Dendrimers with Guest Molecules for Efficient Drug and Gene Delivery. <i>Current Pathobiology Reports</i> , 2021, 9, 57-70. | 1.6 | 2 |
| 71 | Synthesis, Characterisation and Kinetic Studies of Acid-promoted Dissociation Reactions of the Nickel(II) Complex of a [Me ₄ (14)-tetraene-N ₄] Macrocyclic Ligand. <i>Journal of Chemical Research Synopses</i> , 1997, , 227-227. | 0.3 | 1 |
| 72 | IMMOBILIZATION OF BSA ON DENDRIMER FUNCTIONALIZED MAGNETIC NANOPARTICLES. <i>International Journal of Nanoscience</i> , 2011, 10, 919-923. | 0.4 | 1 |

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|----|---|-----|-----------|
| 73 | Biomagnetic interaction of functionalized iron oxide nanoparticles with bovine serum albumin. Biomedical Research Journal, 2016, 3, 229. | 0.4 | 1 |
| 74 | Facile and Selective Mono Benzoylation of Naphthalene Using Atom Efficient Chloroaluminate Ionic Liquid. Polycyclic Aromatic Compounds, 2020, , 1-11. | 1.4 | 0 |
| 75 | Chapter 11. Porphyrinoids in Association with Nanomaterials for Water Purification. RSC Smart Materials, 2021, , 328-351. | 0.1 | 0 |