# Soumen Das

## List of Publications by Year in descending order



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|---|---|---|---|
| 51 papers | 8,053 citations | 117453 34 h-index | 182168 51 g-index |
| 55 all docs | 55 docs citations | 55 times ranked | 12071 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cerium oxide nanoparticles at the nano-bio interface: size-dependent cellular uptake. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 956-963. | 1.9 | 38 |
| 2 | Cerium Oxide Nanoparticles Sensitize Pancreatic Cancer to Radiation Therapy through Oxidative Activation of the JNK Apoptotic Pathway. Cancers, 2018, 10, 303. | 1.7 | 33 |
| 3 | Engineered nanoceria cytoprotection in vivo: mitigation of reactive oxygen species and double-stranded DNA breakage due to radiation exposure. Nanoscale, 2018, 10, 21069-21075. | 2.8 | 37 |
| 4 | Tissue deposition and toxicological effects of commercially significant rare earth oxide nanomaterials: Material and physical properties. Environmental Toxicology, 2017, 32, 904-917. | 2.1 | 22 |
| 5 | Highâ€Throughput, Proteinâ€Targeted Biomolecular Detection Using Frequencyâ€Domain Faraday Rotation Spectroscopy. Small, 2017, 13, 1602862. | 5.2 | 5 |
| 6 | MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. Journal of Investigative Dermatology, 2017, 137, 1965-1974. | 0.3 | 55 |
| 7 | Molybdenum disulfide for ultra-low detection of free radicals: electrochemical response and molecular modeling. 2D Materials, 2017, 4, 025077. | 2.0 | 21 |
| 8 | One-pot synthesis of a ceriaâ€“graphene oxide composite for the efficient removal of arsenic species. Nanoscale, 2017, 9, 3367-3374. | 2.8 | 48 |
| 9 | Nanoparticle delivery of curcumin induces cellular hypoxia and ROS-mediated apoptosis via modulation of Bcl-2/Bax in human neuroblastoma. Nanoscale, 2017, 9, 10375-10387. | 2.8 | 86 |
| 10 | Colorimetric detection of epinephrine using an optimized paper-based aptasensor. RSC Advances, 2017, 7, 49133-49143. | 1.7 | 30 |
| 11 | Modulating the Catalytic Activity of Cerium Oxide Nanoparticles with the Anion of the Precursor Salt. Journal of Physical Chemistry C, 2017, 121, 20039-20050. | 1.5 | 26 |
| 12 | Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. Scientific Reports, 2017, 7, 1324. | 1.6 | 30 |
| 13 | 2D MoS<inf>2</inf>/glassy carbon based electrochemical sensor for pico-molar detection of hydrogen peroxide and hypochlorous acid. , 2016, , . | | 1 |
| 14 | Structureâ€“Activity Map of Ceria Nanoparticles, Nanocubes, and Mesoporous Architectures. Chemistry of Materials, 2016, 28, 7287-7295. | 3.2 | 53 |
| 15 | Adjuvants in microâ€to nanoscale: current state and future direction. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 61-84. | 3.3 | 11 |
| 16 | Folic acid tagged nanoceria as a novel therapeutic agent in ovarian cancer. BMC Cancer, 2016, 16, 220. | 1.1 | 111 |
| 17 | 3D tissue engineered micro-tumors for optical-based therapeutic screening platform. , 2016, , . | | 0 |
| 18 | Controlling the surface chemistry of cerium oxide nanoparticles for biological applications. Journal of Materials Chemistry B, 2016, 4, 3195-3202. | 2.9 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Untangling the biological effects of cerium oxide nanoparticles: the role of surface valence states. Scientific Reports, 2015, 5, 15613. | 1.6 | 227 |
| 20 | Selfâ€Assembly of PEGâ€Coated Ceria Nanoparticles Shows Dependence on PEG Molecular Weight and Ageing. ChemPlusChem, 2015, 80, 1680-1690. | 1.3 | 5 |
| 21 | The Change in Antioxidant Properties of Dextranâ€Coated Redox Active Nanoparticles Due to Synergetic Photoreductionâ€“Oxidation. Chemistry - A European Journal, 2015, 21, 12646-12656. | 1.7 | 13 |
| 22 | Electrochemical study of nanoporous gold revealing anti-biofouling properties. RSC Advances, 2015, 5, 46501-46508. | 1.7 | 27 |
| 23 | Combination therapy with lenalidomide and nanoceria ameliorates CNS autoimmunity. Experimental Neurology, 2015, 273, 151-160. | 2.0 | 43 |
| 24 | Nanomaterials for wound healing: scope and advancement. Nanomedicine, 2015, 10, 2593-2612. | 1.7 | 160 |
| 25 | Catalytic properties and biomedical applications of cerium oxide nanoparticles. Environmental Science: Nano, 2015, 2, 33-53. | 2.2 | 341 |
| 26 | Therapeutic potential of nanoceria in regenerative medicine. MRS Bulletin, 2014, 39, 976-983. | 1.7 | 42 |
| 27 | Redox-active nanoparticles in combating neurodegeneration. Nanomedicine, 2014, 9, 2725-2728. | 1.7 | 9 |
| 28 | Combination of Conventional Chemotherapeutics with Redox-Active Cerium Oxide Nanoparticlesâ€”A Novel Aspect in Cancer Therapy. Molecular Cancer Therapeutics, 2014, 13, 1740-1749. | 1.9 | 127 |
| 29 | Inhibition of Nanoceriaâ€™s Catalytic Activity due to Ce<sup>3+</sup> Site-Specific Interaction with Phosphate Ions. Journal of Physical Chemistry C, 2014, 118, 18992-19006. | 1.5 | 63 |
| 30 | Redox-active nanoceria depolarize mitochondrial membrane of human colon cancer cells. Journal of Nanoparticle Research, 2014, 16, 1. | 0.8 | 27 |
| 31 | Understanding the Adsorption Interface of Polyelectrolyte Coating on Redox Active Nanoparticles Using Soft Particle Electrokinetics and Its Biological Activity. ACS Applied Materials & Interfaces, 2014, 6, 5472-5482. | 4.0 | 20 |
| 32 | Behavior of nanoceria in biologically-relevant environments. Environmental Science: Nano, 2014, 1, 516-532. | 2.2 | 94 |
| 33 | Cerium oxide nanoparticles: applications and prospects in nanomedicine. Nanomedicine, 2013, 8, 1483-1508. | 1.7 | 424 |
| 34 | Morphological Phase Diagram of Biocatalytically Active Ceria Nanostructures as a Function of Processing Variables and Their Properties. ChemPlusChem, 2013, 78, 1424-1424. | 1.3 | 1 |
| 35 | Mitigation of endometriosis using regenerative cerium oxide nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 439-448. | 1.7 | 84 |
| 36 | Sensitization of pancreatic cancer cells to radiation by cerium oxide nanoparticle-induced ROS production. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 558-569. | 1.7 | 269 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Effects of cerium oxide nanoparticles on the growth of keratinocytes, fibroblasts and vascular endothelial cells in cutaneous wound healing. Biomaterials, 2013, 34, 2194-2201. | 5.7 | 301 |
| 38 | Downregulation of Tumor Growth and Invasion by Redox-Active Nanoparticles. Antioxidants and Redox Signaling, 2013, 19, 765-778. | 2.5 | 167 |
| 39 | Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. Particle and Particle Systems Characterization, 2013, 30, 148-157. | 1.2 | 173 |
| 40 | Cellular Interaction and Toxicity Depend on Physicochemical Properties and Surface Modification of Redox-Active Nanomaterials. ACS Nano, 2013, 7, 4855-4868. | 7.3 | 179 |
| 41 | Environment-mediated structure, surface redox activity and reactivity of ceria nanoparticles. Nanoscale, 2013, 5, 6063. | 2.8 | 71 |
| 42 | Morphological Phase Diagram of Biocatalytically Active Ceria Nanostructures as a Function of Processing Variables and Their Properties. ChemPlusChem, 2013, 78, 1446-1455. | 1.3 | 45 |
| 43 | Immunomodulation and T Helper TH1/TH2 Response Polarization by CeO2 and TiO2 Nanoparticles. PLoS ONE, 2013, 8, e62816. | 1.1 | 80 |
| 44 | A facile synthesis of PLGA encapsulated cerium oxide nanoparticles: release kinetics and biological activity. Nanoscale, 2012, 4, 2597. | 2.8 | 48 |
| 45 | The induction of angiogenesis by cerium oxide nanoparticles through the modulation of oxygen in intracellular environments. Biomaterials, 2012, 33, 7746-7755. | 5.7 | 247 |
| 46 | Harnessing nanoparticles to improve toxicity after head and neck radiation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1223-1231. | 1.7 | 57 |
| 47 | Antibody-conjugated PEGylated cerium oxide nanoparticles for specific targeting of AÎ² aggregates modulate neuronal survival pathways. Acta Biomaterialia, 2012, 8, 2056-2067. | 4.1 | 145 |
| 48 | PEGylated Inorganic Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 1980-1994. | 7.2 | 455 |
| 49 | Combined cytotoxic and anti-invasive properties of redox-active nanoparticles in tumorâ€“stroma interactions. Biomaterials, 2011, 32, 2918-2929. | 5.7 | 208 |
| 50 | Graphene based materials: Past, present and future. Progress in Materials Science, 2011, 56, 1178-1271. | 16.0 | 3,063 |
| 51 | Multicolored redox active upconverter cerium oxide nanoparticle for bio-imaging and therapeutics. Chemical Communications, 2010, 46, 6915. | 2.2 | 118 |