

Sanjay Singh

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

6,683
citations

76294

40
h-index

60583

81
g-index

96
all docs

96
docs citations

96
times ranked

8282
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Surface modification of metal oxide nanoparticles to realize biological applications. , 2023, , 450-477. | | 1 |
| 2 | Novel corona virus (COVID-19) pandemic: current status and possible strategies for detection and treatment of the disease. Expert Review of Anti-Infective Therapy, 2022, 20, 1275-1298. | 2.0 | 21 |
| 3 | CuO Nanoparticles as Copper-Ion Reservoirs for Elesclomol-Mediated Intracellular Oxidative Stress: Implications for Anticancer Therapies. ACS Applied Nano Materials, 2022, 5, 1607-1620. | 2.4 | 5 |
| 4 | Cultivating human tissues and organs over lab-on-a-chip models: Recent progress and applications. Progress in Molecular Biology and Translational Science, 2022, 187, 205-240. | 0.9 | 5 |
| 5 | Tuning the enzyme-like activities of cerium oxide nanoparticles using a triethyl phosphite ligand. Biomaterials Science, 2022, 10, 3245-3258. | 2.6 | 6 |
| 6 | Identification of 1,2,4-Oxadiazoles-Based Novel EGFR Inhibitors: Molecular Dynamics Simulation-Guided Identification and in vitro ADME Studies. OncoTargets and Therapy, 2022, Volume 15, 479-495. | 1.0 | 2 |
| 7 | Iron oxide nanoparticle encapsulated; folic acid tethered dual metal organic framework-based nanocomposite for MRI and selective targeting of folate receptor expressing breast cancer cells. Microporous and Mesoporous Materials, 2022, 340, 112008. | 2.2 | 15 |
| 8 | Bovine serum albumin decorated gold nanoclusters: A fluorescence-based nanoprobe for detection of intracellular hydrogen peroxide. Sensors and Actuators B: Chemical, 2021, 327, 128886. | 4.0 | 43 |
| 9 | Phosphotungstate-sandwiched between cerium oxide and gold nanoparticles exhibit enhanced catalytic reduction of 4-nitrophenol and peroxidase enzyme-like activity. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111478. | 2.5 | 11 |
| 10 | Concluding Remarks and Future of Nanomedicines. , 2021, , 235-240. | | 0 |
| 11 | Transformation in band energetics of CuO nanoparticles as a function of solubility and its impact on cellular response. NanoImpact, 2021, 22, 100324. | 2.4 | 2 |
| 12 | SOD mimetic cerium oxide nanorods protect human hepatocytes from oxidative stress. Emergent Materials, 2021, 4, 1305-1317. | 3.2 | 13 |
| 13 | Polyoxometalate-Mediated Vacancy-Engineered Cerium Oxide Nanoparticles Exhibiting Controlled Biological Enzyme-Mimicking Activities. Inorganic Chemistry, 2021, 60, 7475-7489. | 1.9 | 26 |
| 14 | Redox Active Cerium Oxide Nanoparticles: Current Status and Burning Issues. Small, 2021, 17, e2102342. | 5.2 | 79 |
| 15 | Rational design-aided discovery of novel 1,2,4-oxadiazole derivatives as potential EGFR inhibitors. Bioorganic Chemistry, 2021, 114, 105124. | 2.0 | 5 |
| 16 | Metal-Based Nanozyme: Strategies to Modulate the Catalytic Activity to Realize Environment Application. Environmental Chemistry for A Sustainable World, 2021, , 177-212. | 0.3 | 1 |
| 17 | Nanoparticles Catalyzing Enzymatic Reactions: Recent Developments and Future Prospects. , 2021, , 51-80. | | 2 |
| 18 | Calcium carbonate nano- and microparticles: synthesis methods and biological applications. 3 Biotech, 2021, 11, 457. | 1.1 | 26 |

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|----|--|-----|-----------|
| 19 | Enhanced detection using stable isotope enriched ^{65}Cu doped ferrite nanoparticles for tracing studies. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153502. | 2.8 | 4 |
| 20 | Dextran-Coated Cerium Oxide Nanoparticles: A Computed Tomography Contrast Agent for Imaging the Gastrointestinal Tract and Inflammatory Bowel Disease. <i>ACS Nano</i> , 2020, 14, 10187-10197. | 7.3 | 89 |
| 21 | Polymer-Coated Cerium Oxide Nanoparticles as Oxidoreductase-like Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42056-42066. | 4.0 | 83 |
| 22 | BSA-Decorated Magnesium Nanoparticles for Scavenging Hydrogen Peroxide from Human Hepatic Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 3355-3370. | 2.4 | 8 |
| 23 | Site-specific delivery of a natural chemotherapeutic agent to human lung cancer cells using biotinylated 2D rGO nanocarriers. <i>Materials Science and Engineering C</i> , 2020, 112, 110884. | 3.8 | 29 |
| 24 | Oxidative stress-mediated genotoxic effect of zinc oxide nanoparticles on <i>Deinococcus radiodurans</i> . <i>3 Biotech</i> , 2020, 10, 66. | 1.1 | 58 |
| 25 | Serotonin- MnO_4 -Stearic Acid Bioconjugate-Coated Completely Biodegradable MnO_4 Nanocuboids for Hepatocellular Carcinoma Targeting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10170-10182. | 4.0 | 26 |
| 26 | Tuning the ATP-triggered pro-oxidant activity of iron oxide-based nanozyme towards an efficient antibacterial strategy. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 154-164. | 5.0 | 50 |
| 27 | Co-delivery of AKT3 siRNA and PTEN Plasmid by Antioxidant Nanoliposomes for Enhanced Antiproliferation of Prostate Cancer Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 3999-4011. | 2.3 | 12 |
| 28 | Standard biological assays to estimate nanoparticle toxicity and biodistribution. , 2020, , 71-104. | | 3 |
| 29 | Magnetic Nanoparticles: Current Trends and Future Aspects in Diagnostics and Nanomedicine. <i>Current Drug Metabolism</i> , 2019, 20, 457-472. | 0.7 | 78 |
| 30 | Emerging Trends in Nanotechnology: Nanozymes, Imaging Probes and Biosensors and Nanocarriers. <i>Current Drug Metabolism</i> , 2019, 20, 414-415. | 0.7 | 4 |
| 31 | Development of liposome-based antioxidant nanoconstruct for efficient delivery of PTEN plasmid. <i>Materials Today: Proceedings</i> , 2019, 10, 60-65. | 0.9 | 1 |
| 32 | A novel nanoliposomal formulation of the FDA approved drug Halofantrine causes cell death of <i>Leishmania donovani</i> promastigotes in vitro. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 582, 123852. | 2.3 | 7 |
| 33 | Catalytically active cerium oxide nanoparticles protect mammalian cells from endogenous reactive oxygen species. <i>Materials Today: Proceedings</i> , 2019, 10, 25-31. | 0.9 | 4 |
| 34 | Biomimetic polycaprolactone-chitosan nanofibrous substrate influenced cell cycle and ECM secretion affect cellular uptake of nanoclusters. <i>Bioactive Materials</i> , 2019, 4, 79-86. | 8.6 | 21 |
| 35 | Investigating the role of ATP towards amplified peroxidase activity of Iron oxide nanoparticles in different biologically relevant buffers. <i>Applied Surface Science</i> , 2019, 492, 337-348. | 3.1 | 15 |
| 36 | Biological Oxidase Enzyme Mimetic CuPt Nanoalloys: A Multifunctional Nanozyme for Colorimetric Detection of Ascorbic Acid and Identification of Mammalian Cells. <i>ChemistrySelect</i> , 2019, 4, 6537-6546. | 0.7 | 21 |

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|----|--|-----|-----------|
| 37 | Nanomanipulation of Consumer Goods: Effects on Human Health and Environment. , 2019, , 221-254. | | 3 |
| 38 | Nanomaterials Exhibiting Enzyme-Like Properties (Nanozymes): Current Advances and Future Perspectives. <i>Frontiers in Chemistry</i> , 2019, 7, 46. | 1.8 | 182 |
| 39 | Nanomaterials-Based Next Generation Synthetic Enzymes. , 2019, , 37-58. | | 2 |
| 40 | Unveiling the effect of 11-MUA coating on biocompatibility and catalytic activity of a gold-core cerium oxide-shell-based nanozyme. <i>RSC Advances</i> , 2019, 9, 33195-33206. | 1.7 | 17 |
| 41 | Redox-dependent catalase mimetic cerium oxide-based nanozyme protect human hepatic cells from 3-AT induced acatalasemia. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 625-635. | 2.5 | 72 |
| 42 | Cerium Oxide-Based Nanozymes in Biology and Medicine. <i>Springer Proceedings in Physics</i> , 2019, , 193-213. | 0.1 | 6 |
| 43 | Visible-Light-Triggered Reactive-Oxygen-Species-Mediated Antibacterial Activity of Peroxidase-Mimic CuO Nanorods. <i>ACS Applied Nano Materials</i> , 2018, 1, 1694-1704. | 2.4 | 144 |
| 44 | Unveiling the role of ATP in amplification of intrinsic peroxidase-like activity of gold nanoparticles. <i>3 Biotech</i> , 2018, 8, 67. | 1.1 | 26 |
| 45 | Nanostructured silver fabric as a free-standing NanoZyme for colorimetric detection of glucose in urine. <i>Biosensors and Bioelectronics</i> , 2018, 110, 8-15. | 5.3 | 221 |
| 46 | Antioxidative study of Cerium Oxide nanoparticle functionalised PCL-Gelatin electrospun fibers for wound healing application. <i>Bioactive Materials</i> , 2018, 3, 201-211. | 8.6 | 142 |
| 47 | Gold core/ceria shell-based redox active nanozyme mimicking the biological multienzyme complex phenomenon. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 831-842. | 5.0 | 105 |
| 48 | Ligand-mediated reversal of the oxidation state dependent ROS scavenging and enzyme mimicking activity of ceria nanoparticles. <i>Chemical Communications</i> , 2018, 54, 13973-13976. | 2.2 | 48 |
| 49 | Multifunctional antioxidant nanoliposome-mediated delivery of PTEN plasmids restore the expression of tumor suppressor protein and induce apoptosis in prostate cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 3152-3164. | 2.1 | 25 |
| 50 | Liposomal formulation of vitamin A for the potential treatment of osteoporosis. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 51-53. | 3.3 | 15 |
| 51 | Cellular internalization and antioxidant activity of cerium oxide nanoparticles in human monocytic leukemia cells. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 39-41. | 3.3 | 29 |
| 52 | Novel synthesis of polyoxyethylene cholesteryl ether coated Fe-Pt nanoalloys: A multifunctional and cytocompatible bimetallic alloy exhibiting intrinsic chemical catalysis and biological enzyme-like activities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 553, 50-57. | 2.3 | 32 |
| 53 | Fluorescent gold nanoclusters for efficient cancer cell targeting. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 15-17. | 3.3 | 19 |
| 54 | Effective heart disease prediction system using data mining techniques. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 121-124. | 3.3 | 92 |

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|----|--|-----|-----------|
| 55 | Curcumin Ag nanoconjugates for improved therapeutic effects in cancer. International Journal of Nanomedicine, 2018, Volume 13, 75-77. | 3.3 | 15 |
| 56 | Liposome encapsulation of doxorubicin and celecoxib in combination inhibits progression of human skin cancer cells. International Journal of Nanomedicine, 2018, Volume 13, 11-13. | 3.3 | 44 |
| 57 | Recent advances and future prospects of iron oxide nanoparticles in biomedicine and diagnostics. 3 Biotech, 2018, 8, 279. | 1.1 | 221 |
| 58 | ATP-mediated intrinsic peroxidase-like activity of Fe ₃ O ₄ -based nanozyme: One step detection of blood glucose at physiological pH. Colloids and Surfaces B: Biointerfaces, 2017, 153, 52-60. | 2.5 | 142 |
| 59 | Glucose decorated gold nanoclusters: A membrane potential independent fluorescence probe for rapid identification of cancer cells expressing Glut receptors. Colloids and Surfaces B: Biointerfaces, 2017, 155, 25-34. | 2.5 | 31 |
| 60 | Nanoparticle-Based Celecoxib and Plumbagin for the Synergistic Treatment of Melanoma. Molecular Cancer Therapeutics, 2017, 16, 440-452. | 1.9 | 59 |
| 61 | Phosphate-dependent modulation of antibacterial strategy: a redox state-controlled toxicity of cerium oxide nanoparticles. Bulletin of Materials Science, 2017, 40, 1231-1240. | 0.8 | 13 |
| 62 | Gold Nanoparticle-Based Methods for Detection of Oxidative Stress Biomarkers. , 2017, , 65-95. | | 0 |
| 63 | Cerium oxide based nanozymes: Redox phenomenon at biointerfaces. Biointerphases, 2016, 11, 04B202. | 0.6 | 110 |
| 64 | Effect of gold nanoparticle size and surface coating on human red blood cells. Bioinspired, Biomimetic and Nanobiomaterials, 2016, 5, 121-131. | 0.7 | 13 |
| 65 | Redox-Sensitive Cerium Oxide Nanoparticles Protect Human Keratinocytes from Oxidative Stress Induced by Glutathione Depletion. Langmuir, 2016, 32, 12202-12211. | 1.6 | 81 |
| 66 | Pharmacological Drug Delivery Strategies for Improved Therapeutic Effects: Recent Advances. Current Pharmaceutical Design, 2016, 22, 1506-1520. | 0.9 | 20 |
| 67 | Role of phosphate on stability and catalase mimetic activity of cerium oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2015, 132, 78-84. | 2.5 | 86 |
| 68 | Fluorescent magnesium nanocomplex in a protein scaffold for cell nuclei imaging applications. RSC Advances, 2015, 5, 94236-94240. | 1.7 | 6 |
| 69 | ATP-enhanced peroxidase-like activity of gold nanoparticles. Journal of Colloid and Interface Science, 2015, 456, 100-107. | 5.0 | 101 |
| 70 | TiO ₂ nanoparticles induce <scp>DNA</scp> double strand breaks and cell cycle arrest in human alveolar cells. Environmental and Molecular Mutagenesis, 2015, 56, 204-217. | 0.9 | 105 |
| 71 | Surface functionalization of quantum dots for biological applications. Advances in Colloid and Interface Science, 2015, 215, 28-45. | 7.0 | 199 |
| 72 | Nanotechnology in Disease Diagnostic Techniques. Current Drug Metabolism, 2015, 16, 645-661. | 0.7 | 45 |

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|----|--|------|-----------|
| 73 | Nanotechnology in Disease Diagnostic Techniques. Current Drug Metabolism, 2015, , . | 0.7 | 0 |
| 74 | Nanotechnology in Disease Diagnostic Techniques. Current Drug Metabolism, 2015, 16, 645-61. | 0.7 | 7 |
| 75 | BSA coated gold nanoparticles exhibit size dependent interaction with lung cancer (A549) cells. Molecular Cytogenetics, 2014, 7, P83. | 0.4 | 5 |
| 76 | Bioâ€distribution and <i>in vivo</i> antioxidant effects of cerium oxide nanoparticles in mice. Environmental Toxicology, 2013, 28, 107-118. | 2.1 | 249 |
| 77 | Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. Particle and Particle Systems Characterization, 2013, 30, 148-157. | 1.2 | 173 |
| 78 | Nanomaterials as Non-viral siRNA Delivery Agents for Cancer Therapy. Biolmpacts, 2013, 3, 53-65. | 0.7 | 23 |
| 79 | Exposure to Silver Nanoparticles Inhibits Selenoprotein Synthesis and the Activity of Thioredoxin Reductase. Environmental Health Perspectives, 2012, 120, 56-61. | 2.8 | 73 |
| 80 | Realizing the Clinical Potential of Cancer Nanotechnology by Minimizing Toxicologic and Targeted Delivery Concerns. Cancer Research, 2012, 72, 5663-5668. | 0.4 | 90 |
| 81 | A facile synthesis of PLGA encapsulated cerium oxide nanoparticles: release kinetics and biological activity. Nanoscale, 2012, 4, 2597. | 2.8 | 48 |
| 82 | The induction of angiogenesis by cerium oxide nanoparticles through the modulation of oxygen in intracellular environments. Biomaterials, 2012, 33, 7746-7755. | 5.7 | 247 |
| 83 | A phosphate-dependent shift in redox state of cerium oxide nanoparticles and its effects on catalytic properties. Biomaterials, 2011, 32, 6745-6753. | 5.7 | 285 |
| 84 | Bacterial Synthesis of Photocatalytically Active and Biocompatible TiO ₂ and ZnO Nanoparticles. International Journal of Green Nanotechnology: Physics and Chemistry, 2010, 2, P80-P99. | 1.5 | 11 |
| 85 | Redox-active radical scavenging nanomaterials. Chemical Society Reviews, 2010, 39, 4422. | 18.7 | 458 |
| 86 | Cytotoxic and genotoxic assessment of glycolipid-reduced and -capped gold and silver nanoparticles. New Journal of Chemistry, 2010, 34, 294-301. | 1.4 | 87 |
| 87 | Unveiling the mechanism of uptake and sub-cellular distribution of cerium oxide nanoparticles. Molecular BioSystems, 2010, 6, 1813. | 2.9 | 144 |
| 88 | Nanoceria exhibit redox state-dependent catalase mimetic activity. Chemical Communications, 2010, 46, 2736. | 2.2 | 912 |
| 89 | PEGylated Nanoceria as Radical Scavenger with Tunable Redox Chemistry. Journal of the American Chemical Society, 2009, 131, 14144-14145. | 6.6 | 302 |
| 90 | A direct method for the preparation of glycolipidâ€metal nanoparticle conjugates: sophorolipids as reducing and capping agents for the synthesis of water re-dispersible silver nanoparticles and their antibacterial activity. New Journal of Chemistry, 2009, 33, 646-652. | 1.4 | 113 |

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|----|--|-----|-----------|
| 91 | Bacterial synthesis of silicon/silica nanocomposites. Journal of Materials Chemistry, 2008, 18, 2601. | 6.7 | 57 |
| 92 | Multiutility Sphorolipids as Nanoparticle Capping Agents:â€‰ Synthesis of Stable and Water Dispersible Co Nanoparticles. Langmuir, 2007, 23, 11409-11412. | 1.6 | 82 |
| 93 | Effect of halogen addition to monolayer protected gold nanoparticles. Journal of Materials Chemistry, 2007, 17, 1614. | 6.7 | 46 |
| 94 | Nearly Complete Oxidation of Au ⁰ in Hydrophobized Nanoparticles to Au ³⁺ Ions by <i>N</i> -Bromosuccinimide. Journal of Physical Chemistry C, 2007, 111, 14348-14352. | 1.5 | 20 |