

Sadanand Pandey

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

3,768
citations

31
h-index

60
g-index

107
ext. papers

4,918
ext. citations

5.7
avg, IF

6.68
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 93 | Nanomaterial-based biosorbents: Adsorbent for efficient removal of selected organic pollutants from industrial wastewater. <i>Emerging Contaminants</i> , 2022 , 8, 46-58 | 5.8 | 7 |
| 92 | Applications of lignin nanoparticles for cancer drug delivery: An update. <i>Materials Letters</i> , 2022 , 311, 131573 | 3.3 | 6 |
| 91 | Mesoporous FeAl-doped cellulose for the efficient removal of reactive dyes. <i>Materials Advances</i> , 2022 , 3, 3278-3285 | 3.3 | 6 |
| 90 | Sequestration of Organic Dyes from Wastewater Using Hydrogel Nanocomposites. <i>Springer Series in Materials Science</i> , 2022 , 201-223 | 0.9 | |
| 89 | Synthesis of gum acacia-silver nanoparticles based hydrogel composites and their comparative anti-bacterial activity. <i>Journal of Polymer Research</i> , 2022 , 29, 1 | 2.7 | 5 |
| 88 | Opportunities and challenges of using high-sensitivity nanobiosensors to detect long noncoding RNAs: A preliminary review.. <i>International Journal of Biological Macromolecules</i> , 2022 , | 7.9 | 2 |
| 87 | Can nanomaterials support the diagnosis and treatment of human infertility? A preliminary review.. <i>Life Sciences</i> , 2022 , 299, 120539 | 6.8 | 1 |
| 86 | Emerging remediation potentiality of struvite developed from municipal wastewater for the treatment of acid mine drainage.. <i>Environmental Research</i> , 2022 , 210, 112944 | 7.9 | 8 |
| 85 | Fabrication of solar-driven hierarchical ZnIn ₂ S ₄ /rGO/SnS ₂ heterojunction photocatalyst for hydrogen generation and environmental pollutant elimination. <i>Separation and Purification Technology</i> , 2022 , 121119 | 8.3 | 1 |
| 84 | Chitosan nanocarriers for microRNA delivery and detection: A preliminary review with emphasis on cancer.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119489 | 10.3 | 2 |
| 83 | A Green Approach for the Synthesis of Silver Nanoparticle-Embedded Chitosan Bionanocomposite as a Potential Device for the Sustained Release of the Itraconazole Drug and Its Antibacterial Characteristics.. <i>Polymers</i> , 2022 , 14, | 4.5 | 5 |
| 82 | Design and synergistic effect of nano-sized epoxy-NiCo ₂ O ₄ nanocomposites for anticorrosion applications. <i>RSC Advances</i> , 2022 , 12, 14888-14901 | 3.7 | 0 |
| 81 | Novel Perspectives towards RNA-Based Nano-Theranostic Approaches for Cancer Management.. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 6 |
| 80 | Amino Acids, Peptides, and Proteins: Implications for Nanotechnological Applications in Biosensing and Drug/Gene Delivery. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 11 |
| 79 | Reduction of carcinogenic PAHs from petrodiesel engine exhaust by blending of green diesel (A new development in renewable fuels) with different biodiesel fuels. <i>Environmental Technology and Innovation</i> , 2021 , 25, 102089 | 7 | 1 |
| 78 | Development of mucoadhesive thiomeric chitosan nanoparticles for the targeted ocular delivery of vancomycin against Staphylococcus aureus resistant strains. <i>Nanofabrication</i> , 2021 , 6, 16-24 | 4 | 1 |
| 77 | Nanotechnology-based approaches for effective detection of tumor markers: A comprehensive state-of-the-art review.. <i>International Journal of Biological Macromolecules</i> , 2021 , 195, 356-383 | 7.9 | 11 |

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| 76 | Synthesis, In Silico Study, and Anti-Cancer Activity of Thiosemicarbazone Derivatives. <i>Biomedicines</i> , 2021 , 9, | 4.8 | 2 |
| 75 | F127/Cisplatin Microemulsions: In Vitro, In Vivo and Computational Studies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3006 | 2.6 | 5 |
| 74 | Multi-Functionalized Nanomaterials and Nanoparticles for Diagnosis and Treatment of Retinoblastoma. <i>Biosensors</i> , 2021 , 11, | 5.9 | 19 |
| 73 | A Hyaluronic Acid Functionalized Self-Nano-Emulsifying Drug Delivery System (SNEDDS) for Enhancement in Ciprofloxacin Targeted Delivery against Intracellular Infection. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 15 |
| 72 | Achieving a long-term stability by self-redox property between Fe and Mn ions in the iron-manganese spinel structured electrode in oxygen evolution reaction. <i>Applied Surface Science</i> , 2021 , 546, 149124 | 6.7 | 16 |
| 71 | Nanotechnology in Bladder Cancer: Diagnosis and Treatment. <i>Cancers</i> , 2021 , 13, | 6.6 | 19 |
| 70 | Green synthesis of magnetic Fe ₂ O ₃ nanospheres using Bridelia retusa leaf extract for Fenton-like degradation of crystal violet dye. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 2227-2234 | 3.3 | 12 |
| 69 | Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. <i>Journal of Molecular Liquids</i> , 2021 , 345, 117028 | 6 | 12 |
| 68 | Highly efficient hydrogen evolution reaction performance and long-term stability of spherical Ni ₁₀₀ Fe alloy grown directly on a carbon paper electrode. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159265 | 5.7 | 4 |
| 67 | DNA Based and Stimuli-Responsive Smart Nanocarrier for Diagnosis and Treatment of Cancer: Applications and Challenges. <i>Cancers</i> , 2021 , 13, | 6.6 | 15 |
| 66 | Potassium-induced partial inhibition of lactoperoxidase: structure of the complex of lactoperoxidase with potassium ion at 2.20 Å resolution. <i>Journal of Biological Inorganic Chemistry</i> , 2021 , 26, 149-159 | 3.7 | 1 |
| 65 | Recent Advances in Metal Nanoparticles for the Synthesis of N-Containing Heterocyclic Compounds. <i>Asian Journal of Chemistry</i> , 2021 , 33, 949-955 | 0.4 | 0 |
| 64 | Recent Advances in Nanotechnology-Based Diagnosis and Treatments of Human Osteosarcoma. <i>Biosensors</i> , 2021 , 11, | 5.9 | 22 |
| 63 | Nanomaterials for the Diagnosis and Treatment of Head and Neck Cancers: A Review. <i>Materials</i> , 2021 , 14, | 3.5 | 8 |
| 62 | Environmentally Safe Biosynthesis of Gold Nanoparticles Using Plant Water Extracts. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 20 |
| 61 | Theranostic Advances of Bionanomaterials against Gestational Diabetes Mellitus: A Preliminary Review. <i>Journal of Functional Biomaterials</i> , 2021 , 12, | 4.8 | 5 |
| 60 | Implication of biofilms in the sustainability of acid mine drainage and metal dispersion near coal tailings. <i>Science of the Total Environment</i> , 2021 , 788, 147851 | 10.2 | 21 |
| 59 | Simulation, In Vitro, and In Vivo Cytotoxicity Assessments of Methotrexate-Loaded pH-Responsive Nanocarriers. <i>Polymers</i> , 2021 , 13, | 4.5 | 10 |

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| 58 | Synthesis, characterization, toxicity and morphology assessments of newly prepared microemulsion systems for delivery of valproic acid. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116625 | 6 | 20 |
| 57 | Design of Mannose-Coated Rifampicin nanoparticles modulating the immune response and Rifampicin induced hepatotoxicity with improved oral drug delivery. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103321 | 5.9 | 9 |
| 56 | Active Targeted Nanoparticles for Delivery of Poly(ADP-ribose) Polymerase (PARP) Inhibitors: A Preliminary Review. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 3 |
| 55 | Glutaraldehyde-cross-linked chitosan-alginate composite for organic dyes removal from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 862-875 | 7.9 | 14 |
| 54 | Plasmon-Induced Hot Electron Amplification and Effective Charge Separation by Au Nanoparticles Sandwiched between Copper Titanium Phosphate Nanosheets and Improved Carbon Dioxide Conversion to Methane. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18646-18660 | 8.3 | 1 |
| 53 | Recent Advancement in Visible-Light-Responsive Photocatalysts in Heterogeneous Photocatalytic Water Treatment Technology 2020 , 167-196 | | 12 |
| 52 | Sequestration of methylene blue dye using sodium alginate poly(acrylic acid)@ZnO hydrogel nanocomposite: Kinetic, Isotherm, and Thermodynamic Investigations. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 60-73 | 7.9 | 48 |
| 51 | Eco Friendly Approach for Synthesis, Characterization and Biological Activities of Milk Protein Stabilized Silver Nanoparticles. <i>Polymers</i> , 2020 , 12, | 4.5 | 24 |
| 50 | Nb ₂ O ₅ /SnS ₂ /CdS heteronanostructures as efficient visible-light-harvesting materials for production of H ₂ under solar light irradiation. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155399 | 5.7 | 7 |
| 49 | Preparation of highly crystalline quaternary heterostructure catalyst for hydrogen evolution under solar light: Improved photoexcited charge separation. <i>Materials Research Bulletin</i> , 2020 , 122, 110695 | 5.1 | 8 |
| 48 | Fast and highly efficient catalytic degradation of dyes using Carrageenan stabilized silver nanoparticles nanocatalyst. <i>Carbohydrate Polymers</i> , 2020 , 230, 115597 | 10.3 | 121 |
| 47 | Fast and highly efficient removal of dye from aqueous solution using natural locust bean gum based hydrogels as adsorbent. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 60-75 | 7.9 | 107 |
| 46 | Equilibrium, kinetic, and thermodynamic studies of lead ion adsorption from mine wastewater onto MoS ₂ -clinoptilolite composite. <i>Materials Today Chemistry</i> , 2020 , 18, 100376 | 6.2 | 39 |
| 45 | Manganese-Doped Zinc Oxide Nanostructures as Potential Scaffold for Photocatalytic and Fluorescence Sensing Applications. <i>Chemosensors</i> , 2020 , 8, 120 | 4 | 13 |
| 44 | Microwave-assisted green synthesis of xanthan gum grafted diethylamino ethyl methacrylate: An efficient adsorption of hexavalent chromium. <i>Carbohydrate Polymers</i> , 2019 , 222, 114989 | 10.3 | 35 |
| 43 | Carbon Nanotubes in the 21st Century: An Advancement in Real Time Monitoring and Control of Environmental Water 2019 , 265-301 | | 3 |
| 42 | Microwave assisted synthesis of xanthan gum-cl-poly (acrylic acid) based-reduced graphene oxide hydrogel composite for adsorption of methylene blue and methyl violet from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 255-269 | 7.9 | 72 |
| 41 | Low power consumption pressure sensor based on carbon nanotubes 2018 , | | 2 |

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| 40 | Response of Bacterial Biosorbents to Chemical Treatment as Influenced by Cell Membrane Structure and Impact on the Adsorption Behaviour of Dyes. <i>Current Science</i> , 2018 , 114, 826 | 2.2 | 5 |
| 39 | Preparation and characterization of xanthan gum-cl-poly(acrylic acid)/o-MWCNTs hydrogel nanocomposite as highly effective re-usable adsorbent for removal of methylene blue from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 700-714 | 9.3 | 111 |
| 38 | Sol-gel derived xanthan gum/silica nanocomposite-a highly efficient cationic dyes adsorbent in aqueous system. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 596-604 | 7.9 | 34 |
| 37 | Fast microwave-assisted green synthesis of xanthan gum grafted acrylic acid for enhanced methylene blue dye removal from aqueous solution. <i>Carbohydrate Polymers</i> , 2017 , 176, 315-326 | 10.3 | 78 |
| 36 | A comprehensive review on recent developments in bentonite-based materials used as adsorbents for wastewater treatment. <i>Journal of Molecular Liquids</i> , 2017 , 241, 1091-1113 | 6 | 172 |
| 35 | Au Nanocomposite Based Chemiresistive Ammonia Sensor for Health Monitoring. <i>ACS Sensors</i> , 2016 , 1, 55-62 | 9.2 | 111 |
| 34 | Highly sensitive and selective chemiresistor gas/vapor sensors based on polyaniline nanocomposite: A comprehensive review. <i>Journal of Science: Advanced Materials and Devices</i> , 2016 , 1, 431-453 | 4.2 | 145 |
| 33 | PTurning to Nanotechnology for Water Pollution Control: Applications of Nanocomposites. <i>Focus on Sciences</i> , 2016 , 2, 1-10 | | 18 |
| 32 | Recent Modifications of bentonite Clay for Adsorption Applications. <i>Focus on Sciences</i> , 2016 , 2, 1-10 | | 18 |
| 31 | Development of a sodium alginate-based organic/inorganic superabsorbent composite hydrogel for adsorption of methylene blue. <i>Carbohydrate Polymers</i> , 2016 , 153, 34-46 | 10.3 | 217 |
| 30 | Guar gum-grafted poly(acrylonitrile)-templated silica xerogel: nanoengineered material for lead ion removal. <i>Journal of Analytical Science and Technology</i> , 2016 , 7, | 3.4 | 30 |
| 29 | Rapid, facile microwave-assisted synthesis of xanthan gum grafted polyaniline for chemical sensor. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 89-98 | 7.9 | 42 |
| 28 | Sodium alginate stabilized silver nanoparticles-silica nanohybrid and their antibacterial characteristics. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 712-723 | 7.9 | 71 |
| 27 | Facile approach to synthesize chitosan based composite--Characterization and cadmium(II) ion adsorption studies. <i>Carbohydrate Polymers</i> , 2015 , 134, 646-56 | 10.3 | 87 |
| 26 | Cassia Grandis Seed Gum-graft-poly(acrylamide)-silica Hybrid: An Excellent Cadmium (II) Adsorbent. <i>Advanced Materials Letters</i> , 2015 , 6, 19-26 | 2.4 | 13 |
| 25 | Hydrogen sensing based on nanoporous silica-embedded ultra dense ZnO nanobundles. <i>RSC Advances</i> , 2014 , 4, 7476 | 3.7 | 38 |
| 24 | Catalytic reduction of p-nitrophenol by using platinum nanoparticles stabilised by guar gum. <i>Carbohydrate Polymers</i> , 2014 , 113, 525-31 | 10.3 | 201 |
| 23 | Chemical Nanosensors for Monitoring Environmental Pollution 2014 , 309-332 | | 4 |

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| 22 | Nanocomposite based flexible ultrasensitive resistive gas sensor for chemical reactions studies. <i>Scientific Reports</i> , 2013 , 3, 2082 | 4.9 | 97 |
| 21 | Green synthesis of polysaccharide/gold nanoparticle nanocomposite: an efficient ammonia sensor. <i>Carbohydrate Polymers</i> , 2013 , 94, 229-34 | 10.3 | 125 |
| 20 | Chromatographic resolution of racemic amino acids: chiral stationary phase derived from modified xanthan gum. <i>Carbohydrate Polymers</i> , 2013 , 92, 2201-5 | 10.3 | 18 |
| 19 | Green synthesis of biopolymer-silver nanoparticle nanocomposite: an optical sensor for ammonia detection. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 583-9 | 7.9 | 238 |
| 18 | Microwave synthesized xanthan gum-g-poly(ethylacrylate): an efficient Pb ²⁺ ion binder. <i>Carbohydrate Polymers</i> , 2012 , 90, 370-9 | 10.3 | 47 |
| 17 | Amorphous Porous Mixed Oxides: A New and Highly Versatile Class of Materials 2012 , 149-181 | | 1 |
| 16 | Synthesis and characterization of guar gum templated hybrid nano silica. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 233-40 | 7.9 | 20 |
| 15 | Graft copolymerization of ethylacrylate onto xanthan gum, using potassium peroxydisulfate as an initiator. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 527-35 | 7.9 | 56 |
| 14 | Sol-gel synthesis and characterization of adsorbent and photoluminescent nanocomposites of starch and silica. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 194-201 | 3.9 | 23 |
| 13 | Sol-gel derived organic/inorganic hybrid materials: synthesis, characterizations and applications. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 59, 73-94 | 2.3 | 180 |
| 12 | Organic-inorganic hybrid of chitosan/organoclay bionanocomposites for hexavalent chromium uptake. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 509-20 | 9.3 | 197 |
| 11 | Alumina-supported microwave synthesis of Cassia marginata seed gum-graft-polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2010 , 117, n/a-n/a | 2.9 | 6 |
| 10 | Adsorption Behavior of Potato Starch-silica Nanobiocomposite. <i>Advanced Materials Letters</i> , 2010 , 1, 40-47 | 4.4 | 12 |
| 9 | Removal of cadmium from aqueous solutions by adsorption using poly(acrylamide) modified guar gum/silica nanocomposites. <i>Separation and Purification Technology</i> , 2009 , 67, 251-261 | 8.3 | 101 |
| 8 | Removal of chromium (VI) using poly(methylacrylate) functionalized guar gum. <i>Bioresource Technology</i> , 2009 , 100, 1977-82 | 11 | 88 |
| 7 | Sol-gel polycondensation of tetraethoxysilane in ethanol in presence of vinyl modified guar gum: synthesis of novel nanocompositional adsorbent materials. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 58-67 | 2.3 | 25 |
| 6 | Synthesis and characterization of novel saponified guar-graft-poly(acrylonitrile)/silica nanocomposite materials. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 536-544 | 2.9 | 34 |
| 5 | Peroxydisulfate initiated synthesis of potato starch-graft-poly(acrylonitrile) under microwave irradiation. <i>EXPRESS Polymer Letters</i> , 2007 , 1, 51-58 | 3.4 | 81 |

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| 4 | Microwave-accelerated Synthesis and Characterization of Potato Starch-g-poly(acrylamide). <i>Starch/Staerke</i> , 2006 , 58, 536-543 | 2.3 | 88 |
| 3 | Biopolymer starch-gelatin embedded with silver nanoparticleBased hydrogel composites for antibacterial application. <i>Biomass Conversion and Biorefinery</i> ,1 | 2.3 | 8 |
| 2 | Bioceramics: Silica-Based Organic-Inorganic Hybrid Materials for Medical Applications135-161 | | 3 |
| 1 | Potential and future prospects of biochar-based materials and their applications in removal of organic contaminants from industrial wastewater. <i>Journal of Material Cycles and Waste Management</i> ,1 | 3.4 | 2 |