

# Sachin V Otari

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

2,468  
citations

147566

31  
h-index

315357

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

3342  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Biochar based photocatalyst for degradation of organic aqueous waste: A review. <i>Chemosphere</i> , 2022, 287, 132200.  | 4.2 | 43        |
| 2  | Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. <i>Bioresource Technology</i> , 2021, 326, 124733.   | 4.8 | 134       |
| 3  | Seaweed-Based Biodegradable Biopolymers, Composite, and Blends with Applications. <i>Energy, Environment, and Sustainability</i> , 2021, , 121-149.  | 0.6 | 3         |
| 4  | Green Synthesis of Silver-Decorated Magnetic Particles for Efficient and Reusable Antimicrobial Activity. <i>Materials</i> , 2021, 14, 7893.   | 1.3 | 4         |
| 5  | Conversion of biogas to methanol by methanotrophs immobilized on chemically modified chitosan. <i>Bioresource Technology</i> , 2020, 315, 123791.  | 4.8 | 50        |
| 6  | Rapid and size-controlled biosynthesis of cytocompatible selenium nanoparticles by <i>Azadirachta indica</i> leaves extract for antibacterial activity. <i>Materials Letters</i> , 2020, 264, 127353.                  | 1.3 | 45        |
| 7  | One-step hydrothermal synthesis of magnetic rice straw for effective lipase immobilization and its application in esterification reaction. <i>Bioresource Technology</i> , 2020, 302, 122887.                          | 4.8 | 78        |
| 8  | Co-generation of hydrogen and electricity from biodiesel process effluents. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27285-27296.   | 3.8 | 24        |
| 9  | Antimicrobial Activity of Biosynthesized Silver Nanoparticles Decorated Silica Nanoparticles. <i>Indian Journal of Microbiology</i> , 2019, 59, 379-382.   | 1.5 | 38        |
| 10 | Enhanced Saccharification and Fermentation of Rice Straw by Reducing the Concentration of Phenolic Compounds Using an Immobilized Enzyme Cocktail. <i>Biotechnology Journal</i> , 2019, 14, e1800468.                  | 1.8 | 68        |
| 11 | Biomolecule-entrapped SiO <sub>2</sub> nanoparticles for ultrafast green synthesis of silver nanoparticle-decorated hybrid nanostructures as effective catalysts. <i>Ceramics International</i> , 2019, 45, 5876-5882. | 2.3 | 26        |
| 12 | SiO <sub>2</sub> microparticles with carbon nanotube-derived mesopores as an efficient support for enzyme immobilization. <i>Chemical Engineering Journal</i> , 2019, 359, 1252-1264.                                  | 6.6 | 154       |
| 13 | Hybrid Nanostructures in a Diagnostic and Comprehensive Approach to Combat Cancer. , 2019, , 159-172.  |     | 1         |
| 14 | Copper Ferrite Magnetic Nanoparticles for the Immobilization of Enzyme. <i>Indian Journal of Microbiology</i> , 2019, 59, 105-108.   | 1.5 | 52        |
| 15 | Fe <sub>2</sub> O <sub>3</sub> yolk-shell particle-based laccase biosensor for efficient detection of 2,6-dimethoxyphenol. <i>Biochemical Engineering Journal</i> , 2018, 132, 1-8.                                    | 1.8 | 85        |
| 16 | Repeated batch methanol production from a simulated biogas mixture using immobilized <i>Methylocystis bryophila</i> . <i>Energy</i> , 2018, 145, 477-485.  | 4.5 | 42        |
| 17 | Synthesis of cross-linked protein-metal hybrid nanoflowers and its application in repeated batch decolorization of synthetic dyes. <i>Journal of Hazardous Materials</i> , 2018, 347, 442-450.                         | 6.5 | 145       |
| 18 | Protein-inorganic hybrid system for efficient his-tagged enzymes immobilization and its application in <i>xylulose</i> production. <i>RSC Advances</i> , 2017, 7, 3488-3494.   | 1.7 | 90        |

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|----|---|-----|-----------|
| 19 | Rapid, thermostable antimicrobial peptide-mediated synthesis gold nanoparticles as highly efficient charge trapping medium for sol-gel-derived thin film. <i>Materials Letters</i> , 2017, 188, 375-378.  | 1.3 | 11        |
| 20 | Rapid synthesis and decoration of reduced graphene oxide with gold nanoparticles by thermostable peptides for memory device and photothermal applications. <i>Scientific Reports</i> , 2017, 7, 10980.  | 1.6 | 84        |
| 21 | Solution-processed highly efficient Au nanoparticles and their reduced graphene oxide nanocomposites as charge trapping media for ZnO thin film transistor nonvolatile memory. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1115-1122.           | 2.8 | 17        |
| 22 | SnO <sub>2</sub> hollow nanotubes: a novel and efficient support matrix for enzyme immobilization. <i>Scientific Reports</i> , 2017, 7, 15333.  | 1.6 | 61        |
| 23 | <i>Canna edulis</i> Leaf Extract-Mediated Preparation of Stabilized Silver Nanoparticles: Characterization, Antimicrobial Activity, and Toxicity Studies. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 731-738.                         | 0.9 | 48        |
| 24 | A green chemistry approach for synthesizing thermostable antimicrobial peptide-coated gold nanoparticles immobilized in an alginate biohydrogel. <i>RSC Advances</i> , 2016, 6, 86808-86816.  | 1.7 | 41        |
| 25 | Facile one pot synthesis of core shell Ag@SiO <sub>2</sub> nanoparticles for catalytic and antimicrobial activity. <i>Materials Letters</i> , 2016, 167, 179-182.   | 1.3 | 30        |
| 26 | In vitro hyperthermia with improved colloidal stability and enhanced SAR of magnetic core/shell nanostructures. <i>Materials Science and Engineering C</i> , 2016, 59, 702-709.   | 3.8 | 52        |
| 27 | Production of Methanol from Methane by Encapsulated <i>Methylosinus sporium</i> . <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 2098-2105.   | 0.9 | 38        |
| 28 | Intracellular synthesis of silver nanoparticle by actinobacteria and its antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1175-1180.   | 2.0 | 111       |
| 29 | Green synthesis of silver nanoparticles by microorganism using organic pollutant: its antimicrobial and catalytic application. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1503-1513.   | 2.7 | 72        |
| 30 | Preparation and characterization of copper-doped anatase TiO <sub>2</sub> nanoparticles with visible light photocatalytic antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 280, 32-38.                    | 2.0 | 169       |
| 31 | Superparamagnetic iron oxide/chitosan core/shells for hyperthermia application: Improved colloidal stability and biocompatibility. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 22-30.   | 1.0 | 67        |
| 32 | Green phytosynthesis of silver nanoparticles using aqueous extract of <i>Manilkara zapota</i> (L.) seeds and its inhibitory action against <i>Candida</i> species. <i>Materials Letters</i> , 2014, 116, 367-369.                                       | 1.3 | 65        |
| 33 | Synthesis, characterization and biocompatibility of chitosan functionalized superparamagnetic nanoparticles for heat activated curing of cancer cells. <i>Dalton Transactions</i> , 2014, 43, 17343-17351.  | 1.6 | 59        |
| 34 | Structured superparamagnetic nanoparticles for high performance mediator of magnetic fluid hyperthermia: Synthesis, colloidal stability and biocompatibility evaluation. <i>Materials Science and Engineering C</i> , 2014, 42, 637-646.                | 3.8 | 41        |
| 35 | Synthesis and visible light photocatalytic antibacterial activity of nickel-doped TiO <sub>2</sub> nanoparticles against Gram-positive and Gram-negative bacteria. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 294, 130-136. | 2.0 | 96        |
| 36 | Non-aqueous to aqueous phase transfer of oleic acid coated iron oxide nanoparticles for hyperthermia application. <i>RSC Advances</i> , 2014, 4, 4515-4522.   | 1.7 | 87        |

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|----|--|-----|-----------|
| 37 | A novel microbial synthesis of catalytically active Ag-alginate biohydrogel and its antimicrobial activity. Dalton Transactions, 2013, 42, 9966.   | 1.6 | 67        |
| 38 | Enhanced colloidal stability of polymer coated La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanoparticles in physiological media for hyperthermia application. Colloids and Surfaces B: Biointerfaces, 2013, 111, 264-269. | 2.5 | 33        |
| 39 | Green biosynthesis of silver nanoparticles from an actinobacteria Rhodococcus sp.. Materials Letters, 2012, 72, 92-94.   | 1.3 | 136       |