Sachin V Otari

List of Publications by Year
in descending order

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39	2,468	147566	315357
papers	citations	31 h-index	38 g-index

41	41	41	3342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation and characterization of copper-doped anatase TiO2 nanoparticles with visible light photocatalytic antibacterial activity. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 32-38.	2.0	169
2	SiO2 microparticles with carbon nanotube-derived mesopores as an efficient support for enzyme immobilization. Chemical Engineering Journal, 2019, 359, 1252-1264.	6.6	154
3	Synthesis of cross-linked protein-metal hybrid nanoflowers and its application in repeated batch decolorization of synthetic dyes. Journal of Hazardous Materials, 2018, 347, 442-450.	6.5	145
4	Green biosynthesis of silver nanoparticles from an actinobacteria Rhodococcus sp.. Materials Letters, 2012, 72, 92-94.	1.3	136
5	Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. Bioresource Technology, 2021, 326, 124733.	4.8	134
6	Intracellular synthesis of silver nanoparticle by actinobacteria and its antimicrobial activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1175-1180.	2.0	111
7	Synthesis and visible light photocatalytic antibacterial activity of nickel-doped TiO2 nanoparticles against Gram-positive and Gram-negative bacteria. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 294, 130-136.	2.0	96
8	Proteinâ€“inorganic hybrid system for efficient his-tagged enzymes immobilization and its application in <scp>l</scp>-xylulose production. RSC Advances, 2017, 7, 3488-3494.	1.7	90
9	Non-aqueous to aqueous phase transfer of oleic acid coated iron oxide nanoparticles for hyperthermia application. RSC Advances, 2014, 4, 4515-4522.	1.7	87
10	Fe2O3 yolk-shell particle-based laccase biosensor for efficient detection of 2,6-dimethoxyphenol. Biochemical Engineering Journal, 2018, 132, 1-8.	1.8	85
11	Rapid synthesis and decoration of reduced graphene oxide with gold nanoparticles by thermostable peptides for memory device and photothermal applications. Scientific Reports, 2017, 7, 10980.	1.6	84
12	One-step hydrothermal synthesis of magnetic rice straw for effective lipase immobilization and its application in esterification reaction. Bioresource Technology, 2020, 302, 122887.	4.8	78
13	Green synthesis of silver nanoparticles by microorganism using organic pollutant: its antimicrobial and catalytic application. Environmental Science and Pollution Research, 2014, 21, 1503-1513.	2.7	72
14	Enhanced Saccharification and Fermentation of Rice Straw by Reducing the Concentration of Phenolic Compounds Using an Immobilized Enzyme Cocktail. Biotechnology Journal, 2019, 14, e1800468.	1.8	68
15	A novel microbial synthesis of catalytically active Agâ€“alginate biohydrogel and its antimicrobial activity. Dalton Transactions, 2013, 42, 9966.	1.6	67
16	Superparamagnetic iron oxide/chitosan core/shells for hyperthermia application: Improved colloidal stability and biocompatibility. Journal of Magnetism and Magnetic Materials, 2014, 355, 22-30.	1.0	67
17	Green phytosynthesis of silver nanoparticles using aqueous extract of Manilkara zapota (L.) seeds and its inhibitory action against Candida species. Materials Letters, 2014, 116, 367-369.	1.3	65
18	SnO2 hollow nanotubes: a novel and efficient support matrix for enzyme immobilization. Scientific Reports, 2017, 7, 15333.	1.6	61

#	Article	IF	Citations
19	Synthesis, characterization and biocompatibility of chitosan functionalized superparamagnetic nanoparticles for heat activated curing of cancer cells. Dalton Transactions, 2014, 43, 17343-17351.	1.6	59
20	In vitro hyperthermia with improved colloidal stability and enhanced SAR of magnetic core/shell nanostructures. Materials Science and Engineering C, 2016, 59, 702-709.	3.8	52
21	Copper Ferrite Magnetic Nanoparticles for the Immobilization of Enzyme. Indian Journal of Microbiology, 2019, 59, 105-108.	1.5	52
22	Conversion of biogas to methanol by methanotrophs immobilized on chemically modified chitosan. Bioresource Technology, 2020, 315, 123791.	4.8	50
23	Canna edulis Leaf Extract-Mediated Preparation of Stabilized Silver Nanoparticles: Characterization, Antimicrobial Activity, and Toxicity Studies. Journal of Microbiology and Biotechnology, 2017, 27, 731-738.	0.9	48
24	Rapid and size-controlled biosynthesis of cytocompatible selenium nanoparticles by Azadirachta indica leaves extract for antibacterial activity. Materials Letters, 2020, 264, 127353.	1.3	45
25	Biochar based photocatalyst for degradation of organic aqueous waste: A review. Chemosphere, 2022, 287, 132200.	4.2	43
26	Repeated batch methanol production from a simulated biogas mixture using immobilized Methylocystis bryophila. Energy, 2018, 145, 477-485.	4.5	42
27	Structured superparamagnetic nanoparticles for high performance mediator of magnetic fluid hyperthermia: Synthesis, colloidal stability and biocompatibility evaluation. Materials Science and Engineering C, 2014, 42, 637-646.	3.8	41
28	A green chemistry approach for synthesizing thermostable antimicrobial peptide-coated gold nanoparticles immobilized in an alginate biohydrogel. RSC Advances, 2016, 6, 86808-86816.	1.7	41
29	Antimicrobial Activity of Biosynthesized Silver Nanoparticles Decorated Silica Nanoparticles. Indian Journal of Microbiology, 2019, 59, 379-382.	1.5	38
30	Production of Methanol from Methane by Encapsulated Methylosinus sporium. Journal of Microbiology and Biotechnology, 2016, 26, 2098-2105.	0.9	38
31	Enhanced colloidal stability of polymer coated La0.7Sr0.3MnO3 nanoparticles in physiological media for hyperthermia application. Colloids and Surfaces B: Biointerfaces, 2013, 111, 264-269.	2.5	33
32	Facile one pot synthesis of core shell Ag@SiO2 nanoparticles for catalytic and antimicrobial activity. Materials Letters, 2016, 167, 179-182.	1.3	30
33	Biomolecule-entrapped SiO2 nanoparticles for ultrafast green synthesis of silver nanoparticleâ€“decorated hybrid nanostructures as effective catalysts. Ceramics International, 2019, 45, 5876-5882.	2.3	26
34	Co-generation of hydrogen and electricity from biodiesel process effluents. International Journal of Hydrogen Energy, 2019, 44, 27285-27296.	3.8	24
35	Solution-processed highly efficient Au nanoparticles and their reduced graphene oxide nanocomposites as charge trapping media for ZnO thin film transistor nonvolatile memory. Journal of Alloys and Compounds, 2017, 725, 1115-1122.	2.8	17
36	Rapid, thermostable antimicrobial peptide-mediated synthesis gold nanoparticles as highly efficient charge trapping medium for sol-gel-derived thin film. Materials Letters, 2017, 188, 375-378.	1.3	11

#	Article	IF	Citations
37	Green Synthesis of Silver-Decorated Magnetic Particles for Efficient and Reusable Antimicrobial Activity. Materials, 2021, 14, 7893.	1.3	4
38	Seaweed-Based Biodegradable Biopolymers, Composite, and Blends with Applications. Energy, Environment, and Sustainability, 2021, , 121-149.	0.6	3
39	Hybrid Nanostructures in a Diagnostic and Comprehensive Approach to Combat Cancer. , 2019, , 159-172.		1