

Kannan Badri Narayanan

List of Publications by Year in descending order

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40
papers

3,867
citations

218381
26
h-index

288905
40
g-index

40
all docs

40
docs citations

40
times ranked

5683
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Metal-Free Catalytic Reduction of Nitro to Amine Over Carbon Sheets Doped with Nitrogen. <i>Catalysis Letters</i> , 2022, 152, 538-546.	1.4	4
2	Peptide ligases: A Novel and potential enzyme toolbox for catalytic cross-linking of protein/peptide-based biomaterial scaffolds for tissue engineering. <i>Enzyme and Microbial Technology</i> , 2022, 155, 109990.	1.6	6
3	Fabrication strategies and biomedical applications of three-dimensional bacterial cellulose-based scaffolds: A review. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 9-30.	3.6	42
4	Tissue Adhesive, Self-Healing, Biocompatible, Hemostasis, and Antibacterial Properties of Fungal-Derived Carboxymethyl Chitosan-Polydopamine Hydrogels. <i>Pharmaceutics</i> , 2022, 14, 1028.	2.0	26
5	Antibacterial properties of starch-reduced graphene oxideâ€“polyiodide nanocomposite. <i>Food Chemistry</i> , 2021, 342, 128385.	4.2	33
6	From Chemistry to Biology: Applications and Advantages of Green, Biosynthesized/Biofabricated Metal- and Carbon-based Nanoparticles. <i>Fibers and Polymers</i> , 2021, 22, 877-897.	1.1	5
7	Statistical Optimization of Poly- β -Hydroxybutyrate Biosynthesis Using the Spent Mushroom Substrate by <i>Bacillus tequilensis</i> PSR-2. <i>Waste and Biomass Valorization</i> , 2021, 12, 6709-6725.	1.8	3
8	Bacterial exo-polysaccharides in biofilms: role in antimicrobial resistance and treatments. <i>Journal of Genetic Engineering and Biotechnology</i> , 2021, 19, 140.	1.5	80
9	Biocompatibility and hemocompatibility of hydrothermally derived reduced graphene oxide using soluble starch as a reducing agent. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110579.	2.5	42
10	Novel biomimetic chitin-glucan polysaccharide nano/microfibrous fungal-scaffolds for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 724-731.	3.6	45
11	Electrospun poly(vinyl alcohol)/reduced graphene oxide nanofibrous scaffolds for skin tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 110994.	2.5	43
12	Biofabrication of <i>Lysinibacillus sphaericus</i> -reduced graphene oxide in three-dimensional polyacrylamide/carbon nanocomposite hydrogels for skin tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 539-548.	2.5	28
13	Intracellular accumulation of gold nanoparticles by multipotent bone marrow-derived mesenchymal stem cells. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045013.	0.6	3
14	Recombinant helical plant virus-based nanoparticles for vaccination and immunotherapy. <i>Virus Genes</i> , 2018, 54, 623-637.	0.7	9
15	Environmentally Sustainable Synthesis of Catalytically-Active Silver Nanoparticles and Their Cytotoxic Effect on Human Keratinocytes. <i>Journal of Cluster Science</i> , 2017, 28, 1605-1616.	1.7	13
16	Dual-crosslinked poly(vinyl alcohol)/sodium alginate/silver nanocomposite beads â€“ A promising antimicrobial material. <i>Food Chemistry</i> , 2017, 234, 103-110.	4.2	73
17	Colorimetric detection of manganese(II) ions using alginate-stabilized silver nanoparticles. <i>Research on Chemical Intermediates</i> , 2017, 43, 5665-5674.	1.3	25
18	Helical plant viral nanoparticlesâ€“bioinspired synthesis of nanomaterials and nanostructures. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 031001.	1.5	30

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19	Highly selective and quantitative colorimetric detection of mercury(II) ions by carrageenan-functionalized Ag/AgCl nanoparticles. <i>Carbohydrate Polymers</i> , 2017, 160, 90-96.	5.1	50
20	Icosahedral plant viral nanoparticles - bioinspired synthesis of nanomaterials/nanostructures. <i>Advances in Colloid and Interface Science</i> , 2017, 248, 1-19.	7.0	45
21	Genetic Modifications of Icosahedral Plant Virus-based Nanoparticles for Vaccine and Immunotherapy Applications. <i>Current Protein and Peptide Science</i> , 2017, 18, 1141-1151.	0.7	10
22	One-Pot Green Synthesis of Hematite (α -Fe ₂ O ₃) Nanoparticles by Ultrasonic Irradiation and Their In Vitro Cytotoxicity on Human Keratinocytes CRL-2310. <i>Journal of Cluster Science</i> , 2016, 27, 1763-1775.	1.7	24
23	Purification and Analysis of the Interactions of Caspase-1 and ASC for Assembly of the Inflammasome. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2883-2894.	1.4	11
24	Toll/interleukin-1 receptor (TIR) domain-mediated cellular signaling pathways. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 196-209.	2.2	148
25	Synthesis and characterization of biomatrixed-gold nanoparticles by the mushroom <i>Flammulina velutipes</i> and its heterogeneous catalytic potential. <i>Chemosphere</i> , 2015, 141, 169-175.	4.2	70
26	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. <i>Carcinogenesis</i> , 2015, 36, S254-S296.	1.3	239
27	Homogeneous catalytic activity of gold nanoparticles synthesized using turnip (<i>Brassica rapa</i> L.) leaf extract in the reductive degradation of cationic azo dye. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1273-1277.	1.2	37
28	Green Chemistry Approach for the Synthesis of Gold Nanoparticles Using the Fungus <i>Alternaria</i> sp.. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1129-1135.	0.9	80
29	Self-oligomerization of ASC PYD Domain Prevents the Assembly of Inflammasome In Vitro. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3902-3912.	1.4	5
30	Antifungal activity of silver nanoparticles synthesized using turnip leaf extract (<i>Brassica rapa</i> L.) against wood rotting pathogens. <i>European Journal of Plant Pathology</i> , 2014, 140, 185-192.	0.8	142
31	Unnatural amino acid-mediated synthesis of silver nanoparticles and their antifungal activity against <i>Candida</i> species. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	9
32	Colorimetric detection of manganese(II) ions using gold/dopa nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 132-137.	2.0	33
33	Extracellular synthesis of mycogenic silver nanoparticles by <i>Cylindrocladium floridanum</i> and its homogeneous catalytic degradation of 4-nitrophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 116, 485-490.	2.0	50
34	Mycocrystallization of gold ions by the fungus <i>Cylindrocladium floridanum</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 2207-2211.	1.7	40
35	Pleiotropic functions of antioxidant nanoparticles for longevity and medicine. <i>Advances in Colloid and Interface Science</i> , 2013, 201-202, 30-42.	7.0	47
36	Biosynthesis of Silver Nanoparticles by Phytopathogen <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Strain BXO8. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1287-1292.	0.9	28

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37	Heterogeneous catalytic reduction of anthropogenic pollutant, 4-nitrophenol by silver-bionanocomposite using <i>Cylindrocladium floridanum</i> . <i>Bioresource Technology</i> , 2011, 102, 10737-10740.	4.8	125
38	Green synthesis of biogenic metal nanoparticles by terrestrial and aquatic phototrophic and heterotrophic eukaryotes and biocompatible agents. <i>Advances in Colloid and Interface Science</i> , 2011, 169, 59-79.	7.0	462
39	Synthesis and characterization of nano-gold composite using <i>Cylindrocladium floridanum</i> and its heterogeneous catalysis in the degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2011, 189, 519-525.	6.5	243
40	Biological synthesis of metal nanoparticles by microbes. <i>Advances in Colloid and Interface Science</i> , 2010, 156, 1-13.	7.0	1,459