Rocktotpal Konwarh

List of Publications by Year
in descending order

43 papers	1,445 citations	394286 19 h-index	377752 34 g-index
46 all docs	46 docs citations	46 times ranked	2270 citing authors

#	Article	IF	Citations
1	Electrospun cellulose acetate nanofibers: The present status and gamut of biotechnological applications. Biotechnology Advances, 2013, 31, 421-437.	6.0	275
2	Polymer-assisted iron oxide magnetic nanoparticle immobilized keratinase. Nanotechnology, 2009, 20, 225107.	1.3	110
3	Biomimetic preparation of polymer-supported free radical scavenging, cytocompatible and antimicrobial â€œgreenâ€•silver nanoparticles using aqueous extract of Citrus sinensis peel. Colloids and Surfaces B: Biointerfaces, 2011, 84, 338-345.	2.5	106
4	Mimicking Hierarchical Complexity of the Osteochondral Interface Using Electrospun Silkâ€“Bioactive Glass Composites. ACS Applied Materials & Interfaces, 2017, 9, 8000-8013.	4.0	89
5	Purification, characterization and biotechnological application of an alkaline Î²-keratinase produced by Bacillus subtilis RM-01 in solid-state fermentation using chicken-feather as substrate. Biochemical Engineering Journal, 2009, 45, 218-225.	1.8	88
6	Non-hazardous anticancerous and antibacterial colloidal â€˜greenâ€™ silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2013, 105, 37-42.	2.5	82
7	Ultrasonication â€“ A complementary â€˜green chemistryâ€™ tool to biocatalysis: A laboratory-scale study of lycopene extraction. Ultrasonics Sonochemistry, 2012, 19, 292-299.	3.8	70
8	Silk-microfluidics for advanced biotechnological applications: A progressive review. Biotechnology Advances, 2016, 34, 845-858.	6.0	55
9	Comprehensive Review on Silk at Nanoscale for Regenerative Medicine and Allied Applications. ACS Biomaterials Science and Engineering, 2019, 5, 2054-2078.	2.6	51
10	Bio-degradable vegetable oil based hyperbranched poly(ester amide) as an advanced surface coating material. Progress in Organic Coatings, 2013, 76, 689-697.	1.9	47
11	Effect of sonication and aging on the templating attribute of starch for â€œgreenâ€•silver nanoparticles and their interactions at bio-interface. Carbohydrate Polymers, 2011, 83, 1245-1252.	5.1	44
12	Catalytically Active Vegetableâ€Oilâ€Based Thermoplastic Hyperbranched Polyurethane/Silver Nanocomposites. Macromolecular Materials and Engineering, 2010, 295, 159-169.	1.7	33
13	Diameter-tuning of electrospun cellulose acetate fibers: A Boxâ€“Behnken design (BBD) study. Carbohydrate Polymers, 2013, 92, 1100-1106.	5.1	33
14	Nanobodies: Prospects of Expanding the Gamut of Neutralizing Antibodies Against the Novel Coronavirus, SARS-CoV-2. Frontiers in Immunology, 2020, 11, 1531.	2.2	33
15	Magnetically recyclable, antimicrobial, and catalytically enhanced polymer-assisted â€œgreenâ€• nanosystem-immobilized Aspergillus niger amyloglucosidase. Applied Microbiology and Biotechnology, 2010, 87, 1983-1992.	1.7	32
16	â€˜Poly(ethylene glycol)-magnetic nanoparticles-curcuminâ€™ trio: Directed morphogenesis and synergistic free-radical scavenging. Colloids and Surfaces B: Biointerfaces, 2010, 81, 578-586.	2.5	31
17	Green Synthesis of Iron Oxide Nanoparticles: Cutting Edge Technology and Multifaceted Applications. , 2019, , 239-259.		26
18	Recent advances in bioprinting technologies for engineering hepatic tissue. Materials Science and Engineering C, 2021, 123, 112013.	3.8	26

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19	Bio-based hyperbranched poly(ester amide)â€“MWCNT nanocomposites: multimodalities at the biointerface. Biomaterials Science, 2014, 2, 192-202.	2.6	24
20	Potential Nanomedicine Applications of Multifunctional Carbon Nanoparticles Developed Using Green Technology. ACS Sustainable Chemistry and Engineering, 2018, 6, 1235-1245.	3.2	20
21	Biomimetically Prepared Antibacterial, Free Radical Scavenging Poly(ethylene glycol) Supported Silver Nanoparticles as Aedes albopictus Larvicide. Advanced Science, Engineering and Medicine, 2013, 5, 291-298.	0.3	19
22	Lycopene coupled â€˜trifoliateâ€™ polyaniline nanofibers as multi-functional biomaterial. Journal of Materials Chemistry, 2012, 22, 15062.	6.7	17
23	Optimization of chromium(VI) removal by indigenous microalga (Chlamydomonas sp.)â€based biosorbent using response surface methodology. Water Environment Research, 2021, 93, 1276-1288.	1.3	17
24	Microwave-assisted poly(glycidyl methacrylate)-functionalized multiwall carbon nanotubes with a â€˜tendrillarâ€™ nanofibrous polyaniline wrapping and their interaction at bio-interface. Carbon, 2013, 55, 34-43.	5.4	15
25	Molecular docking studies on analogues of quercetin with d-alanine:d-alanine ligase of Helicobacter pylori. Medicinal Chemistry Research, 2013, 22, 2139-2150.	1.1	15
26	Can CRISPR/Cas Technology Be a Felicitous Stratagem Against the COVID-19 Fiasco? Prospects and Hitches. Frontiers in Molecular Biosciences, 2020, 7, 557377.	1.6	15
27	Opportunities and Challenges in Exploring Indian Non-Mulberry Silk for Biomedical Applications. Proceedings of the Indian National Science Academy Part A, Physical Sciences, 2017, 83, .	0.2	14
28	Can the venerated silk be the next-generation nanobiomaterial for biomedical-device designing, regenerative medicine and drug delivery? Prospects and hitches. Bio-Design and Manufacturing, 2019, 2, 278-286.	3.9	11
29	Isolation and immobilization of Aroid polyphenol on magnetic nanoparticles: Enhancement of potency on surface immobilization. Colloids and Surfaces B: Biointerfaces, 2013, 102, 450-456.	2.5	7
30	Sonication assisted assemblage of exotic polymer supported nanostructured bio-hybrid system and prospective application. Ultrasonics Sonochemistry, 2014, 21, 634-642.	3.8	6
31	Harnessing the potential use of cellulolytic Klebsiella oxytoca (M21WG) and Klebsiella sp. (Z6WG) isolated from the guts of termites (Isoptera). Annals of Microbiology, 2022, 72, .	1.1	6
32	Harnessing the therapeutic myco-potential for concrete-crack healing: Prospects and snags. Material Science Research India, 2020, 17, 117-128.	0.9	5
33	Designing of novel nanosensors for environmental aspects. , 2020, , 51-87.		4
34	Comparative analysis of codon usage bias in Crenarchaea and Euryarchaea genome reveals differential preference of synonymous codons to encode highly expressed ribosomal and RNA polymerase proteins. Journal of Genetics, 2016, 95, 537-549.	0.4	2
35	Sustainable Bioresource, Silk at the Nanoscale for Biomedical Applications. , 2019, , 125-145.		2
36	Nanosensor platforms for surveillance of plant pathogens and phytometabolites/analytes vis-Ã-vis plant health status. , 2020, , 357-385.		2

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37	Fortifying the diagnostic-frontiers with nanoscale technology amidst the COVID-19 catastrophe. Expert Review of Molecular Diagnostics, 2021, 21, 131-135.	1.5	2
38	Single nucleotide polymorphisms of leptin gene in five Ethiopian indigenous cattle breeds and the Korean Hanwoo breed. Tropical Animal Health and Production, 2021, 53, 202.	0.5	2
39	Harnessing the Sustainable Bioresource, Cellulose at the Nanoscale for Multifarious Environmental Applications. , 2021, , 65-91.		0
40	Survey of attitude towards biotechnology among the members of an Ethiopian university fraternity. African Journal of Science, Technology, Innovation and Development, 0, , 1-11.	0.8	0
41	Ion-Exchange Nanocomposites: Avant garde Materials for Electrodialysis. , 2019, , 215-246.		0
42	Silk Based Nanofibrous Biomaterials for Tissue Engineering and Regenerative Medicine (Term): Transcending New Frontiers. Material Science Research India, 2019, 16, 04-06.	0.9	0
43	Exemplary evidence of bio-nano crosstalk between carbon dots and plant systems. , 2022, , 155-173.		0