

Avinash Kadam

List of Publications by Year in descending order

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75
papers

3,292
citations

117453

34
h-index

155451

55
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77
all docs

77
docs citations

77
times ranked

3825
citing authors

#	ARTICLE	IF	CITATIONS
1	Urea fuel cell using cow dung compost soil as a novel biocatalyst for power generation applications. <i>Energy</i> , 2022, 239, 122357.	4.5	5
2	Recent Advances in the Development of Laccase-Based Biosensors via Nano-Immobilization Techniques. <i>Chemosensors</i> , 2022, 10, 58.	1.8	19
3	Lignin-Mediated Silver Nanoparticle Synthesis for Photocatalytic Degradation of Reactive Yellow 4G and In Vitro Assessment of Antioxidant, Antidiabetic, and Antibacterial Activities. <i>Polymers</i> , 2022, 14, 648.	2.0	13
4	Developing Microbial Co-Culture System for Enhanced Polyhydroxyalkanoates (PHA) Production Using Acid Pretreated Lignocellulosic Biomass. <i>Polymers</i> , 2022, 14, 726.	2.0	11
5	Significance of Immune Status of SARS-CoV-2 Infected Patients in Determining the Efficacy of Therapeutic Interventions. <i>Journal of Personalized Medicine</i> , 2022, 12, 349.	1.1	3
6	Advantage of Species Diversification to Facilitate Sustainable Development of Aquaculture Sector. <i>Biology</i> , 2022, 11, 368.	1.3	8
7	Supermagnetic halloysite nanotubes surface-tuned with aminosilane for protease immobilization and applied for eradication of bacterial biofilm. <i>Applied Surface Science</i> , 2022, 593, 153469.	3.1	10
8	Fe ₃ O ₄ -HNTs-APTES-palladium nanocomposites with enhanced high-temperature gas response properties. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157041.	2.8	13
9	Î±-Cellulose Fibers of Paper-Waste Origin Surface-Modified with Fe ₃ O ₄ and Thiolated-Chitosan for Efficacious Immobilization of Laccase. <i>Polymers</i> , 2021, 13, 581.	2.0	6
10	Biological characteristics and biomarkers of novel SARS-CoV-2 facilitated rapid development and implementation of diagnostic tools and surveillance measures. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112969.	5.3	22
11	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. <i>Bioresource Technology</i> , 2021, 325, 124685.	4.8	138
12	Review on biomass feedstocks, pyrolysis mechanism and physicochemical properties of biochar: State-of-the-art framework to speed up vision of circular bioeconomy. <i>Journal of Cleaner Production</i> , 2021, 297, 126645.	4.6	202
13	Genome-Wide Identification and Characterization of PIN-FORMED (PIN) Gene Family Reveals Role in Developmental and Various Stress Conditions in <i>Triticum aestivum</i> L. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7396.	1.8	45
14	Genome-Wide Identification and Characterization of the Brassinazole-resistant (BZR) Gene Family and Its Expression in the Various Developmental Stage and Stress Conditions in Wheat (<i>Triticum aestivum</i>) <i>Tj ETQq0 0 0.8gBT /Ovâ</i>	1.8	45
15	Histidine Functionalized Gold Nanoparticles for Screening Aminoglycosides and Nanomolar Level Detection of Streptomycin in Water, Milk, and Whey. <i>Chemosensors</i> , 2021, 9, 358.	1.8	4
16	An Overview of Recent Advancements in Microbial Polyhydroxyalkanoates (PHA) Production from Dark Fermentation Acidogenic Effluents: A Path to an Integrated Bio-Refinery. <i>Polymers</i> , 2021, 13, 4297.	2.0	9
17	Gallic acid-functionalized silver nanoparticles as colorimetric and spectrophotometric probe for detection of Al ³⁺ in aqueous medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 243-253.	2.9	19
18	Silver nanoparticle probe for colorimetric detection of aminoglycoside antibiotics: picomolar level sensitivity toward streptomycin in water, serum, and milk samples. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 874-884.	1.7	33

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19	Chitosan-Grafted Halloysite Nanotubes-Fe ₃ O ₄ Composite for Laccase-Immobilization and Sulfamethoxazole-Degradation. <i>Polymers</i> , 2020, 12, 2221.	2.0	24
20	Supermagnetic Sugarcane Bagasse Hydrochar for Enhanced Osteoconduction in Human Adipose Tissue-Derived Mesenchymal Stem Cells. <i>Nanomaterials</i> , 2020, 10, 1793.	1.9	12
21	Adjustable n-p-n gas sensor response of Fe ₃ O ₄ -HNTs doped Pd nanocomposites for hydrogen sensors. <i>Applied Surface Science</i> , 2020, 530, 147272.	3.1	33
22	Low-Cost Magnetic Fe ₃ O ₄ /Chitosan Nanocomposites for Adsorptive Removal of Carcinogenic Diazo Dye. <i>Theoretical Foundations of Chemical Engineering</i> , 2020, 54, 655-663.	0.2	8
23	Thiolation of Chitosan Loaded over Super-Magnetic Halloysite Nanotubes for Enhanced Laccase Immobilization. <i>Nanomaterials</i> , 2020, 10, 2560.	1.9	15
24	Efficient Biofilms Eradication by Enzymatic-Cocktail of Pancreatic Protease Type-I and Bacterial α -Amylase. <i>Polymers</i> , 2020, 12, 3032.	2.0	19
25	Development of ultrasound aided chemical pretreatment methods to enrich saccharification of wheat waste biomass for polyhydroxybutyrate production and its characterization. <i>Industrial Crops and Products</i> , 2020, 150, 112425.	2.5	62
26	Surface tuning of halloysite nanotubes with Fe ₃ O ₄ and 3-D MnO ₂ nanoflakes for highly selective and sensitive acetone gas sensing. <i>Ceramics International</i> , 2020, 46, 21292-21303.	2.3	18
27	Designing of nanoflakes anchored nanotubes-like MnCo ₂ S ₄ /halloysite composites for advanced battery like supercapacitor application. <i>Electrochimica Acta</i> , 2020, 341, 135973.	2.6	36
28	Assembling ZnO and Fe ₃ O ₄ nanostructures on halloysite nanotubes for anti-bacterial assessments. <i>Applied Surface Science</i> , 2020, 509, 145358.	3.1	29
29	Super-magnetization of pectin from orange-peel biomass for sulfamethoxazole adsorption. <i>Cellulose</i> , 2020, 27, 3301-3318.	2.4	33
30	Water Purification Filter Prepared by Layer-by-layer Assembly of Paper Filter and Polypropylene-polyethylene Woven Fabrics Decorated with Silver Nanoparticles. <i>Fibers and Polymers</i> , 2020, 21, 751-761.	1.1	8
31	Investigation of photocatalytic degradation of reactive textile dyes by Portulaca oleracea-functionalized silver nanocomposites and exploration of their antibacterial and antidiabetic potentials. <i>Journal of Alloys and Compounds</i> , 2020, 833, 155083.	2.8	37
32	Using chemical bath deposition to create nanosheet-like CuO electrodes for supercapacitor applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 1004-1011.	2.5	54
33	Whey peptide-encapsulated silver nanoparticles as a colorimetric and spectrophotometric probe for palladium(II). <i>Mikrochimica Acta</i> , 2019, 186, 763.	2.5	9
34	Mechanistic study of colorimetric and absorbance sensor developed for trivalent yttrium (Y ³⁺) using chlortetracycline-functionalized silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110436.	2.5	7
35	Novel approach to synthesize NiCo ₂ S ₄ composite for high-performance supercapacitor application with different molar ratio of Ni and Co. <i>Scientific Reports</i> , 2019, 9, 13717.	1.6	53
36	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 391-400.	3.6	84

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37	Treatment of Hazardous Engineered Nanomaterials by Supermagnetized β -Cellulose Fibers of Renewable Paper-Waste Origin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5764-5775.	3.2	12
38	Flower-like NiCo ₂ O ₄ /NiCo ₂ S ₄ electrodes on Ni mesh for higher supercapacitor applications. <i>Ceramics International</i> , 2019, 45, 17192-17203.	2.3	52
39	Phyto-fabrication of silver nanoparticles by <i>Acacia nilotica</i> leaves: Investigating their antineoplastic, free radical scavenging potential and application in H ₂ O ₂ sensing. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 239-249.	2.7	57
40	Green-Synthesis of Anisotropic Peptone-Silver Nanoparticles and Its Potential Application as Anti-Bacterial Agent. <i>Polymers</i> , 2019, 11, 271.	2.0	28
41	Pretreatment of kenaf (<i>Hibiscus cannabinus</i> L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. <i>Bioresource Technology</i> , 2019, 282, 75-80.	4.8	84
42	Adsorptive remediation of cobalt oxide nanoparticles by magnetized β -cellulose fibers from waste paper biomass. <i>Bioresource Technology</i> , 2019, 273, 386-393.	4.8	33
43	Surface functionalization of halloysite nanotubes with supermagnetic iron oxide, chitosan and 2-D calcium-phosphate nanoflakes for synergistic osteoconduction enhancement of human adipose tissue-derived mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 18-26.	2.5	34
44	Paper waste extracted β -cellulose fibers super-magnetized and chitosan-functionalized for covalent laccase immobilization. <i>Bioresource Technology</i> , 2018, 261, 420-427.	4.8	47
45	Chitosan-functionalized supermagnetic halloysite nanotubes for covalent laccase immobilization. <i>Carbohydrate Polymers</i> , 2018, 194, 208-216.	5.1	68
46	Morphological enhancement to CuO nanostructures by electron beam irradiation for biocompatibility and electrochemical performance. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 314-322.	3.8	51
47	Recent developments in nanotechnology transforming the agricultural sector: a transition replete with opportunities. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 849-864.	1.7	167
48	Synthesis and Evaluation of Antioxidant and Cytotoxicity of the N-Mannich Base of Berberine Bearing Benzothiazole Moieties. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 17, 1652-1660.	0.9	13
49	Effect of Mn doping on the chemical synthesis of interconnected nanoflakes-like CoS thin films for high performance supercapacitor applications. <i>Ceramics International</i> , 2018, 44, 23102-23108.	2.3	41
50	Colorimetric detection of Cu ²⁺ based on the formation of peptide-copper complexes on silver nanoparticle surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1414-1422.	1.5	42
51	Berberine-piperazine conjugates as potent influenza neuraminidase blocker. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1204-1210.	3.6	13
52	Anti-proliferative applications of laccase immobilized on super-magnetic chitosan-functionalized halloysite nanotubes. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 228-237.	3.6	34
53	Supermagnetically Tuned Halloysite Nanotubes Functionalized with Aminosilane for Covalent Laccase Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15492-15501.	4.0	119
54	Chemical synthesis of hierarchical NiCo ₂ S ₄ nanosheets like nanostructure on flexible foil for a high performance supercapacitor. <i>Scientific Reports</i> , 2017, 7, 9764.	1.6	51

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55	Exploring the potential of fungal-bacterial consortium for low-cost biodegradation and detoxification of textile effluent. Archives of Environmental Protection, 2016, 42, 12-21.	1.1	12
56	Facile synthesis of pectin-stabilized magnetic graphene oxide Prussian blue nanocomposites for selective cesium removal from aqueous solution. Bioresource Technology, 2016, 216, 391-398.	4.8	73
57	Simultaneous electricity production and Direct Red 80 degradation using a dual chamber microbial fuel cell. Desalination and Water Treatment, 2016, 57, 9051-9059.	1.0	19
58	Bacterial Enzymes and Their Role in Decolorization of Azo Dyes. Environmental Science and Engineering, 2015, , 149-168.	0.1	17
59	Effect of toluene, an immiscible pollutant, on the photocatalytic degradation of azo dye. Journal of Industrial and Engineering Chemistry, 2015, 30, 10-13.	2.9	14
60	A Low-Cost Wheat Bran Medium for Biodegradation of the Benzidine-Based Carcinogenic Dye Trypan Blue Using a Microbial Consortium. International Journal of Environmental Research and Public Health, 2015, 12, 3480-3505.	1.2	38
61	Glutaraldehyde cross-linked magnetic chitosan nanocomposites: Reduction precipitation synthesis, characterization, and application for removal of hazardous textile dyes. Bioresource Technology, 2015, 193, 563-567.	4.8	74
62	Application of novel consortium TSR for treatment of industrial dye manufacturing effluent with concurrent removal of ADMI, COD, heavy metals and toxicity. Water Science and Technology, 2015, 71, 1293-1300.	1.2	11
63	Microbial community structure in a dual chamber microbial fuel cell fed with brewery waste for azo dye degradation and electricity generation. Environmental Science and Pollution Research, 2015, 22, 13477-13485.	2.7	64
64	Zinc chloride as a coagulant for textile dyes and treatment of generated dye sludge under the solid state fermentation: Hybrid treatment strategy. Bioresource Technology, 2015, 176, 38-46.	4.8	20
65	Biodegradation and detoxification of textile azo dyes by bacterial consortium under sequential microaerophilic/aerobic processes. EXCLI Journal, 2015, 14, 158-74.	0.5	100
66	Enzymatic hydrolysis and characterization of waste lignocellulosic biomass produced after dye bioremediation under solid state fermentation. Bioresource Technology, 2014, 168, 136-141.	4.8	60
67	Exploiting the potential of plant growth promoting bacteria in decolorization of dye Disperse Red 73 adsorbed on milled sugarcane bagasse under solid state fermentation. International Biodeterioration and Biodegradation, 2014, 86, 364-371.	1.9	33
68	Lichen Permelia perlata: A novel system for biodegradation and detoxification of disperse dye Solvent Red 24. Journal of Hazardous Materials, 2014, 276, 461-468.	6.5	53
69	Treatment of dye containing wastewaters by a developed lab scale phytoreactor and enhancement of its efficacy by bacterial augmentation. International Biodeterioration and Biodegradation, 2013, 78, 89-97.	1.9	79
70	Solid-state fermentation: tool for bioremediation of adsorbed textile dyestuff on distillery industry waste-yeast biomass using isolated Bacillus cereus strain EBT1. Environmental Science and Pollution Research, 2013, 20, 1009-1020.	2.7	55
71	An insight into the influence of low dose irradiation pretreatment on the microbial decolouration and degradation of Reactive Red-120 dye. Chemosphere, 2013, 90, 1348-1358.	4.2	52
72	Low cost CaCl ₂ pretreatment of sugarcane bagasse for enhancement of textile dyes adsorption and subsequent biodegradation of adsorbed dyes under solid state fermentation. Bioresource Technology, 2013, 132, 276-284.	4.8	62

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73	Enhanced biodegradation and detoxification of disperse azo dye Rubine GFL and textile industry effluent by defined fungal-bacterial consortium. <i>International Biodeterioration and Biodegradation</i> , 2012, 72, 94-107.	1.9	197
74	Decolorization of adsorbed textile dyes by developed consortium of <i>Pseudomonas</i> sp. SUK1 and <i>Aspergillus ochraceus</i> NCIM-1146 under solid state fermentation. <i>Journal of Hazardous Materials</i> , 2011, 189, 486-494.	6.5	105
75	Biochemical characterization and potential for textile dye degradation of blue laccase from <i>Aspergillus ochraceus</i> NCIM-1146. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 696-703.	1.4	68