

Y V Nancharaiah

List of Publications by Year in descending order

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72
papers

4,274
citations

159585

30
h-index

114465

63
g-index

73
all docs

73
docs citations

73
times ranked

4567
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerobic granular sludge technology: Mechanisms of granulation and biotechnological applications. <i>Bioresource Technology</i> , 2018, 247, 1128-1143.	9.6	374
2	Selenium: environmental significance, pollution, and biological treatment technologies. <i>Biotechnology Advances</i> , 2016, 34, 886-907.	11.7	338
3	Ecology and Biotechnology of Selenium-Respiring Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2015, 79, 61-80.	6.6	319
4	Metals removal and recovery in bioelectrochemical systems: A review. <i>Bioresource Technology</i> , 2015, 195, 102-114.	9.6	318
5	Biological and Bioelectrochemical Recovery of Critical and Scarce Metals. <i>Trends in Biotechnology</i> , 2016, 34, 137-155.	9.3	234
6	Selenium biomineralization for biotechnological applications. <i>Trends in Biotechnology</i> , 2015, 33, 323-330.	9.3	214
7	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. <i>Bioresource Technology</i> , 2016, 215, 173-185.	9.6	202
8	Making waves: Wastewater surveillance of SARS-CoV-2 for population-based health management. <i>Water Research</i> , 2020, 184, 116181.	11.3	138
9	Anti-biofilm potential of a glycolipid surfactant produced by a tropical marine strain of <i>Serratia marcescens</i> . <i>Biofouling</i> , 2011, 27, 645-654.	2.2	137
10	Aerobic granular sludge process: a fast growing biological treatment for sustainable wastewater treatment. <i>Current Opinion in Environmental Science and Health</i> , 2019, 12, 57-65.	4.1	96
11	Metal chalcogenide quantum dots: biotechnological synthesis and applications. <i>RSC Advances</i> , 2016, 6, 41477-41495.	3.6	94
12	Effect of C/N ratio on denitrification of high-strength nitrate wastewater in anoxic granular sludge sequencing batch reactors. <i>Ecological Engineering</i> , 2016, 91, 441-448.	3.6	93
13	Textile dye biodecolourization and ammonium removal over nitrite in aerobic granular sludge sequencing batch reactors. <i>Journal of Hazardous Materials</i> , 2018, 342, 536-543.	12.4	91
14	Immobilization of Cr(VI) and Its Reduction to Cr(III) Phosphate by Granular Biofilms Comprising a Mixture of Microbes. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2433-2438.	3.1	86
15	Biotechnology in the management and resource recovery from metal bearing solid wastes: Recent advances. <i>Journal of Environmental Management</i> , 2018, 211, 138-153.	7.8	84
16	Biodegradation of nitrilotriacetic acid (NTA) and ferric-NTA complex by aerobic microbial granules. <i>Water Research</i> , 2006, 40, 1539-1546.	11.3	73
17	Selenite reduction and ammoniacal nitrogen removal in an aerobic granular sludge sequencing batch reactor. <i>Water Research</i> , 2018, 131, 131-141.	11.3	66
18	Disruption of fungal and bacterial biofilms by lauroyl glucose. <i>Letters in Applied Microbiology</i> , 2008, 47, 374-379.	2.2	62

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19	Bioaugmentation of aerobic microbial granules with <i>Pseudomonas putida</i> carrying TOL plasmid. <i>Chemosphere</i> , 2008, 71, 30-35.	8.2	61
20	A comparison of fate and toxicity of selenite, biogenically, and chemically synthesized selenium nanoparticles to zebrafish (<i>Danio rerio</i>) embryogenesis. <i>Nanotoxicology</i> , 2017, 11, 87-97.	3.0	61
21	Single Cell Level Microalgal Ecotoxicity Assessment by Confocal Microscopy and Digital Image Analysis. <i>Environmental Science & Technology</i> , 2007, 41, 2617-2621.	10.0	57
22	Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. <i>Bioresource Technology</i> , 2016, 206, 1-8.	9.6	56
23	Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor. <i>Journal of Hazardous Materials</i> , 2017, 327, 79-88.	12.4	50
24	Aerobic Granular Sludge: The Future of Wastewater Treatment. <i>Current Science</i> , 2019, 117, 395.	0.8	49
25	Environmental impact and bioremediation of seleniferous soils and sediments. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 941-956.	9.0	47
26	Biogenic nanopalladium production by self-immobilized granular biomass: Application for contaminant remediation. <i>Water Research</i> , 2014, 65, 395-401.	11.3	46
27	Biodegradation of tributyl phosphate, an organophosphate triester, by aerobic granular biofilms. <i>Journal of Hazardous Materials</i> , 2015, 283, 705-711.	12.4	43
28	Long alkyl-chain imidazolium ionic liquids: Antibiofilm activity against phototrophic biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 487-496.	5.0	43
29	Comparative performance of anaerobic attached biofilm and granular sludge reactors for the treatment of model mine drainage wastewater containing selenate, sulfate and nickel. <i>Chemical Engineering Journal</i> , 2018, 345, 545-555.	12.7	43
30	Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor. <i>Bioresource Technology</i> , 2017, 229, 11-19.	9.6	38
31	Aerobic granular sludge for high-strength ammonium wastewater treatment: Effect of COD/N ratios, long-term stability and nitrogen removal pathways. <i>Bioresource Technology</i> , 2020, 306, 123150.	9.6	34
32	Formation of Se(0), Te(0), and Se(0)-Te(0) nanostructures during simultaneous bioreduction of selenite and tellurite in a UASB reactor. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2899-2911.	3.6	31
33	Biological nutrient removal by halophilic aerobic granular sludge under hypersaline seawater conditions. <i>Bioresource Technology</i> , 2020, 318, 124065.	9.6	30
34	Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. <i>Chemosphere</i> , 2018, 211, 684-693.	8.2	29
35	Alkylimidazolium Ionic Liquids as Antifungal Alternatives: Antibiofilm Activity Against <i>Candida albicans</i> and Underlying Mechanism of Action. <i>Frontiers in Microbiology</i> , 2020, 11, 730.	3.5	29
36	Denitrification accelerates granular sludge formation in sequencing batch reactors. <i>Bioresource Technology</i> , 2015, 196, 28-34.	9.6	27

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37	2,4-Dinitrotoluene removal in aerobic granular biomass sequencing batch reactors. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 56-65.	3.9	26
38	Enhancing biological nitrogen and phosphorus removal performance in aerobic granular sludge sequencing batch reactors by activated carbon particles. <i>Journal of Environmental Management</i> , 2022, 303, 114134.	7.8	25
39	Biosynthesis of CdSe nanoparticles by anaerobic granular sludge. <i>Environmental Science: Nano</i> , 2017, 4, 824-833.	4.3	23
40	Hormetic effect of ionic liquid 1-ethyl-3-methylimidazolium acetate on bacteria. <i>Chemosphere</i> , 2015, 128, 178-183.	8.2	22
41	Sustainable bioreduction of toxic levels of chromate in a denitrifying granular sludge reactor. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1969-1979.	5.3	21
42	Phytoremediation of seleniferous soil leachate using the aquatic plants <i>Lemna minor</i> and <i>Egeria densa</i> . <i>Ecological Engineering</i> , 2018, 120, 321-328.	3.6	21
43	Biocidal efficacy of monochloramine against biofilm bacteria. <i>Biofouling</i> , 1998, 12, 321-332.	2.2	20
44	In situ and ex situ bioremediation of radionuclide-contaminated soils at nuclear and norm sites. , 2015, , 185-236.		20
45	Selenate removal in biofilm systems: effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2380-2389.	3.2	20
46	Role of bacterial biofilms and their EPS on settlement of barnacle (<i>Amphibalanus reticulatus</i>) larvae. <i>International Biodeterioration and Biodegradation</i> , 2020, 150, 104958.	3.9	20
47	Denitrification of high strength nitrate bearing acidic waters in granular sludge sequencing batch reactors. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 28-36.	3.9	18
48	Development of biogenic bimetallic Pd/Fe nanoparticle-impregnated aerobic microbial granules with potential for dye removal. <i>Journal of Environmental Management</i> , 2021, 293, 112789.	7.8	17
49	In situ and ex situ bioremediation of seleniferous soils from northwestern India. <i>Journal of Soils and Sediments</i> , 2019, 19, 762-773.	3.0	16
50	Fungal infections: Pathogenesis, antifungals and alternate treatment approaches. <i>Current Research in Microbial Sciences</i> , 2022, 3, 100137.	2.3	16
51	Aerobic granular sludge for efficient biotransformation of chalcogen SeIV and TeIV oxyanions: Biological nutrient removal and biogenesis of SeO and TeO nanostructures. <i>Journal of Hazardous Materials</i> , 2022, 422, 126833.	12.4	15
52	Cathodic selenium recovery in bioelectrochemical system: Regulatory influence on anodic electrogenic activity. <i>Journal of Hazardous Materials</i> , 2020, 399, 122843.	12.4	15
53	Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 303-314.	2.4	15
54	Enhanced biological phosphorus removal in aerobic granular sludge reactors by granular activated carbon dosing. <i>Science of the Total Environment</i> , 2022, 823, 153643.	8.0	15

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55	Antibiofouling potential of 1-alkyl-3-methylimidazolium ionic liquids: Studies against biofouling barnacle larvae. <i>Journal of Molecular Liquids</i> , 2020, 302, 112497.	4.9	14
56	Biodegradation of dibutyl phosphite by <i>Sphingobium</i> sp. AMGD5 isolated from aerobic granular biomass. <i>International Biodeterioration and Biodegradation</i> , 2014, 91, 60-65.	3.9	12
57	Granulation of the autochthonous planktonic bacterial community of seawater for saline wastewater treatment. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1902-1916.	2.4	12
58	Development and performance of halophilic microalgae-colonized aerobic granular sludge for treating seawater-based wastewater. <i>Bioresource Technology Reports</i> , 2020, 11, 100432.	2.7	12
59	Amberlite IRA-900 Ion Exchange Resin for the Sorption of Selenate and Sulfate: Equilibrium, Kinetic, and Regeneration Studies. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 04018110.	1.4	11
60	Formation of aerobic granules in the presence of a synthetic chelating agent. <i>Environmental Pollution</i> , 2008, 153, 37-43.	7.5	10
61	Simultaneous removal of sulfate and selenate from wastewater by process integration of an ion exchange column and upflow anaerobic sludge blanket bioreactor. <i>Separation Science and Technology</i> , 2019, 54, 1387-1399.	2.5	10
62	Chlorination induced damage and recovery in marine diatoms: Assay by SYTOX [®] Green staining. <i>Marine Pollution Bulletin</i> , 2017, 124, 819-826.	5.0	9
63	Microbial transformation of Se oxyanions in cultures of <i>Delftia lacustris</i> grown under aerobic conditions. <i>Journal of Microbiology</i> , 2019, 57, 362-371.	2.8	7
64	Removal and Recovery of Metals and Nutrients From Wastewater Using Bioelectrochemical Systems. , 2019, , 693-720.		7
65	Optimization of Soil Washing to Reduce the Selenium Levels of Seleniferous Soil from Punjab, Northwestern India. <i>Journal of Environmental Quality</i> , 2018, 47, 1530-1537.	2.0	6
66	Bioreduction of [Co(III)-EDTA] ²⁻ by Denitrifying Granular Sludge Biofilms. <i>Chemical Engineering and Technology</i> , 2016, 39, 1669-1675.	1.5	5
67	Acid soluble extracellular matrix confers structural stability to marine <i>Bacillus haynesii</i> pellicle biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111160.	5.0	5
68	Cadmium Selenide Formation Influences the Production and Characteristics of Extracellular Polymeric Substances of Anaerobic Granular Sludge. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 965-980.	2.9	5
69	Denitrification Kinetics of High-Strength Nitrate in Granular Sludge Reactors. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1800239.	1.1	4
70	Assessment of alkylimidazolium chloride ionic liquid formulations for cleaning and disinfection of environmental surfaces. <i>American Journal of Infection Control</i> , 2022, 50, 1032-1037.	2.3	4
71	Alkylimidazolium ionic liquids for biofilm control: Experimental studies on controlling multispecies biofilms in natural waters. <i>Journal of Molecular Liquids</i> , 2021, 336, 116859.	4.9	3
72	Comparative performance of activated sludge and aerobic granular sludge sequencing batch reactors for removing metalloid Se(IV/VI) oxyanions. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100040.	3.6	0