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 for efficient biotransformation of chalcogen SeIV and TeIV oxyanions: Biological nutrient removal and biogenesis of Se0 and Te0 nanostructures. Journal of Hazardous Materials, 2022, 422, 126833.	12.4	15
2	Enhancing biological nitrogen and phosphorus removal performance in aerobic granular sludge sequencing batch reactors by activated carbon particles. Journal of Environmental Management, 2022, 303, 114134.	7.8	25
3	Enhanced biological phosphorus removal in aerobic granular sludge reactors by granular activated carbon dosing. Science of the Total Environment, 2022, 823, 153643.	8.0	15
4	Assessment of alkylimidazolium chloride ionic liquid formulations for cleaning and disinfection of environmental surfaces. American Journal of Infection Control, 2022, 50, 1032-1037.	2.3	4
5	Fungal infections: Pathogenesis, antifungals and alternate treatment approaches. Current Research in Microbial Sciences, 2022, 3, 100137.	2.3	16
6	Cadmium Selenide Formation Influences the Production and Characteristics of Extracellular Polymeric Substances of Anaerobic Granular Sludge. Applied Biochemistry and Biotechnology, 2021, 193, 965-980.	2.9	5
7	Alkylimidazolium ionic liquids for biofilm control: Experimental studies on controlling multispecies biofilms in natural waters. Journal of Molecular Liquids, 2021, 336, 116859.	4.9	3
8	Development of biogenic bimetallic Pd/Fe nanoparticleâ€“impregnated aerobic microbial granules with potential for dye removal. Journal of Environmental Management, 2021, 293, 112789.	7.8	17
9	Comparative performance of activated sludge and aerobic granular sludge sequencing batch reactors for removing metalloid SeIV/VI oxyanions. Journal of Hazardous Materials Letters, 2021, 2, 100040.	3.6	0
10	Biological nutrient removal by halophilic aerobic granular sludge under hypersaline seawater conditions. Bioresource Technology, 2020, 318, 124065.	9.6	30
11	Making waves: Wastewater surveillance of SARS-CoV-2 for population-based health management. Water Research, 2020, 184, 116181.	11.3	138
12	Acid soluble extracellular matrix confers structural stability to marine Bacillus haynesii pellicle biofilms. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111160.	5.0	5
13	Granulation of the autochthonous planktonic bacterial community of seawater for saline wastewater treatment. Environmental Science: Water Research and Technology, 2020, 6, 1902-1916.	2.4	12
14	Aerobic granular sludge for high-strength ammonium wastewater treatment: Effect of COD/N ratios, long-term stability and nitrogen removal pathways. Bioresource Technology, 2020, 306, 123150.	9.6	34
15	Antibiofouling potential of 1-alkyl-3-methylimidazolium ionic liquids: Studies against biofouling barnacle larvae. Journal of Molecular Liquids, 2020, 302, 112497.	4.9	14
16	Role of bacterial biofilms and their EPS on settlement of barnacle (Amphibalanus reticulatus) larvae. International Biodeterioration and Biodegradation, 2020, 150, 104958.	3.9	20
17	Alkylimidazolium Ionic Liquids as Antifungal Alternatives: Antibiofilm Activity Against Candida albicans and Underlying Mechanism of Action. Frontiers in Microbiology, 2020, 11, 730.	3.5	29
18	Development and performance of halophilic microalgae-colonized aerobic granular sludge for treating seawater-based wastewater. Bioresource Technology Reports, 2020, 11, 100432.	2.7	12

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19	Cathodic selenium recovery in bioelectrochemical system: Regulatory influence on anodic electrogenic activity. Journal of Hazardous Materials, 2020, 399, 122843.	12.4	15
20	In situ and ex situ bioremediation of seleniferous soils from northwestern India. Journal of Soils and Sediments, 2019, 19, 762-773.	3.0	16
21	Aerobic granular sludge process: a fast growing biological treatment for sustainable wastewater treatment. Current Opinion in Environmental Science and Health, 2019, 12, 57-65.	4.1	96
22	Microbial transformation of Se oxyanions in cultures of Delftia lacustris grown under aerobic conditions. Journal of Microbiology, 2019, 57, 362-371.	2.8	7
23	Simultaneous removal of sulfate and selenate from wastewater by process integration of an ion exchange column and upflow anaerobic sludge blanket bioreactor. Separation Science and Technology, 2019, 54, 1387-1399.	2.5	10
24	Removal and Recovery of Metals and Nutrients From Wastewater Using Bioelectrochemical Systems. , 2019, , 693-720.		7
25	Aerobic Granular Sludge:The Future of Wastewater Treatment. Current Science, 2019, 117, 395.	0.8	49
26	Formation of Se(0), Te(0), and Se(0)â€“Te(0) nanostructures during simultaneous bioreduction of selenite and tellurite in a UASB reactor. Applied Microbiology and Biotechnology, 2018, 102, 2899-2911.	3.6	31
27	Biotechnology in the management and resource recovery from metal bearing solid wastes: Recent advances. Journal of Environmental Management, 2018, 211, 138-153.	7.8	84
28	Selenate removal in biofilm systems: effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. Journal of Chemical Technology and Biotechnology, 2018, 93, 2380-2389.	3.2	20
29	Environmental impact and bioremediation of seleniferous soils and sediments. Critical Reviews in Biotechnology, 2018, 38, 941-956.	9.0	47
30	Comparative performance of anaerobic attached biofilm and granular sludge reactors for the treatment of model mine drainage wastewater containing selenate, sulfate and nickel. Chemical Engineering Journal, 2018, 345, 545-555.	12.7	43
31	Aerobic granular sludge technology: Mechanisms of granulation and biotechnological applications. Bioresource Technology, 2018, 247, 1128-1143.	9.6	374
32	Textile dye biodecolourization and ammonium removal over nitrite in aerobic granular sludge sequencing batch reactors. Journal of Hazardous Materials, 2018, 342, 536-543.	12.4	91
33	Selenite reduction and ammoniacal nitrogen removal in an aerobic granular sludge sequencing batch reactor. Water Research, 2018, 131, 131-141.	11.3	66
34	Sustainable bioreduction of toxic levels of chromate in a denitrifying granular sludge reactor. Environmental Science and Pollution Research, 2018, 25, 1969-1979.	5.3	21
35	Optimization of Soil Washing to Reduce the Selenium Levels of Seleniferous Soil from Punjab, Northwestern India. Journal of Environmental Quality, 2018, 47, 1530-1537.	2.0	6
36	Denitrification Kinetics of Highâ€Strength Nitrate in Granular Sludge Reactors. Clean - Soil, Air, Water, 2018, 46, 1800239.	1.1	4

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37	Phytoremediation of seleniferous soil leachate using the aquatic plants Lemna minor and Egeria densa. Ecological Engineering, 2018, 120, 321-328.	3.6	21
38	Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. Chemosphere, 2018, 211, 684-693.	8.2	29
39	Amberlite IRA-900 Ion Exchange Resin for the Sorption of Selenate and Sulfate: Equilibrium, Kinetic, and Regeneration Studies. Journal of Environmental Engineering, ASCE, 2018, 144, 04018110.	1.4	11
40	Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors. Environmental Science: Water Research and Technology, 2018, 4, 303-314.	2.4	15
41	Chlorination induced damage and recovery in marine diatoms: Assay by SYTOXÂ® Green staining. Marine Pollution Bulletin, 2017, 124, 819-826.	5.0	9
42	Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor. Bioresource Technology, 2017, 229, 11-19.	9.6	38
43	2,4-Dinitrotoluene removal in aerobic granular biomass sequencing batch reactors. International Biodeterioration and Biodegradation, 2017, 119, 56-65.	3.9	26
44	Biosynthesis of CdSe nanoparticles by anaerobic granular sludge. Environmental Science: Nano, 2017, 4, 824-833.	4.3	23
45	Long alkyl-chain imidazolium ionic liquids: Antibiofilm activity against phototrophic biofilms. Colloids and Surfaces B: Biointerfaces, 2017, 155, 487-496.	5.0	43
46	A comparison of fate and toxicity of selenite, biogenically, and chemically synthesized selenium nanoparticles to zebrafish (Danio rerio) embryogenesis. Nanotoxicology, 2017, 11, 87-97.	3.0	61
47	Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor. Journal of Hazardous Materials, 2017, 327, 79-88.	12.4	50
48	Denitrification of high strength nitrate bearing acidic waters in granular sludge sequencing batch reactors. International Biodeterioration and Biodegradation, 2017, 119, 28-36.	3.9	18
49	Bioreduction of [Co(III)â€ŁEDTA]^{â^'} by Denitrifying Granular Sludge Biofilms. Chemical Engineering and Technology, 2016, 39, 1669-1675.	1.5	5
50	Selenium: environmental significance, pollution, and biological treatment technologies. Biotechnology Advances, 2016, 34, 886-907.	11.7	338
51	Metal chalcogenide quantum dots: biotechnological synthesis and applications. RSC Advances, 2016, 6, 41477-41495.	3.6	94
52	Effect of C/N ratio on denitrification of high-strength nitrate wastewater in anoxic granular sludge sequencing batch reactors. Ecological Engineering, 2016, 91, 441-448.	3.6	93
53	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. Bioresource Technology, 2016, 215, 173-185.	9.6	202
54	Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. Bioresource Technology, 2016, 206, 1-8.	9.6	56

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55	Biological and Bioelectrochemical Recovery of Critical and Scarce Metals. Trends in Biotechnology, 2016, 34, 137-155.	9.3	234
56	In situ and ex situ bioremediation of radionuclide-contaminated soils at nuclear and norm sites. , 2015, , 185-236.		20
57	Ecology and Biotechnology of Selenium-Respiring Bacteria. Microbiology and Molecular Biology Reviews, 2015, 79, 61-80.	6.6	319
58	Metals removal and recovery in bioelectrochemical systems: A review. Bioresource Technology, 2015, 195, 102-114.	9.6	318
59	Hormetic effect of ionic liquid 1-ethyl-3-methylimidazolium acetate on bacteria. Chemosphere, 2015, 128, 178-183.	8.2	22
60	Selenium biomineralization for biotechnological applications. Trends in Biotechnology, 2015, 33, 323-330.	9.3	214
61	Denitrification accelerates granular sludge formation in sequencing batch reactors. Bioresource Technology, 2015, 196, 28-34.	9.6	27
62	Biodegradation of tributyl phosphate, an organosphate triester, by aerobic granular biofilms. Journal of Hazardous Materials, 2015, 283, 705-711.	12.4	43
63	Biogenic nanopalladium production by self-immobilized granular biomass: Application for contaminant remediation. Water Research, 2014, 65, 395-401.	11.3	46
64	Biodegradation of dibutyl phosphite by Sphingobium sp. AMGD5 isolated from aerobic granular biomass. International Biodeterioration and Biodegradation, 2014, 91, 60-65.	3.9	12
65	Anti-biofilm potential of a glycolipid surfactant produced by a tropical marine strain ofSerratia marcescens. Biofouling, 2011, 27, 645-654.	2.2	137
66	Immobilization of Cr(VI) and Its Reduction to Cr(III) Phosphate by Granular Biofilms Comprising a Mixture of Microbes. Applied and Environmental Microbiology, 2010, 76, 2433-2438.	3.1	86
67	Disruption of fungal and bacterial biofilms by lauroyl glucose. Letters in Applied Microbiology, 2008, 47, 374-379.	2.2	62
68	Formation of aerobic granules in the presence of a synthetic chelating agent. Environmental Pollution, 2008, 153, 37-43.	7.5	10
69	Bioaugmentation of aerobic microbial granules with Pseudomonas putida carrying TOL plasmid. Chemosphere, 2008, 71, 30-35.	8.2	61
70	Single Cell Level Microalgal Ecotoxicity Assessment by Confocal Microscopy and Digital Image Analysis. Environmental Science & Technology, 2007, 41, 2617-2621.	10.0	57
71	Biodegradation of nitrilotriacetic acid (NTA) and ferricâ€“NTA complex by aerobic microbial granules. Water Research, 2006, 40, 1539-1546.	11.3	73
72	Biocidal efficacy of monochloramine against biofilm bacteria. Biofouling, 1998, 12, 321-332.	2.2	20