

Krishna Pagilla

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6830702/krishna-pagilla-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111 papers	2,608 citations	27 h-index	47 g-index
115 ext. papers	2,932 ext. citations	5.3 avg, IF	5.38 L-index

#	Paper	IF	Citations
111	Filamentous bulking sludge--a critical review. <i>Water Research</i> , 2004 , 38, 793-817	12.5	388
110	N ₂ O emissions from activated sludge processes, 2008-2009: results of a national monitoring survey in the United States. <i>Environmental Science & Technology</i> , 2010 , 44, 4505-11	10.3	300
109	Use of genetically engineered microorganisms (GEMs) for the bioremediation of contaminants. <i>Critical Reviews in Biotechnology</i> , 2006 , 26, 145-64	9.4	99
108	Recent applications of Vitreoscilla hemoglobin technology in bioproduct synthesis and bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1627-36	5.7	83
107	Organic nitrogen transformations in a 4-stage Bardenpho nitrogen removal plant and bioavailability/biodegradability of effluent DON. <i>Water Research</i> , 2009 , 43, 4507-16	12.5	73
106	Treatment of malathion pesticide wastewater with nanofiltration and photo-Fenton oxidation. <i>Desalination</i> , 2010 , 263, 36-44	10.3	67
105	Effect of oxic and anoxic conditions on nitrous oxide emissions from nitrification and denitrification processes. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2036-45	4.9	65
104	Bioavailability of dissolved organic nitrogen in treated effluents. <i>Water Environment Research</i> , 2008 , 80, 397-406	2.8	64
103	Effluent dissolved organic nitrogen and dissolved phosphorus removal by enhanced coagulation and microfiltration. <i>Water Research</i> , 2010 , 44, 5306-15	12.5	56
102	Lab-scale study of an anaerobic membrane bioreactor (AnMBR) for dilute municipal wastewater treatment. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 704-708	3.1	49
101	Laboratory investigation of biodegradability of a polyurethane foam under anaerobic conditions. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1599-1610	4.7	47
100	Characteristics and fate of organic nitrogen in municipal biological nutrient removal wastewater treatment plants. <i>Water Research</i> , 2012 , 46, 2057-66	12.5	45
99	Nitrogen speciation in wastewater treatment plant influents and effluents-the US and Polish case studies. <i>Water Science and Technology</i> , 2008 , 57, 1511-7	2.2	45
98	Low effluent nutrient technologies for wastewater treatment. <i>Water Science and Technology</i> , 2006 , 53, 165-72	2.2	43
97	Impact of aeration conditions on the removal of low concentrations of nitrogen in a tertiary partially aerated biological filter. <i>Ecological Engineering</i> , 2012 , 44, 44-52	3.9	41
96	Expression of Vitreoscilla hemoglobin in <i>Gordonia amarae</i> enhances biosurfactant production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 693-700	4.2	39
95	Aerobic thermophilic and anaerobic mesophilic treatment of swine waste. <i>Water Research</i> , 2000 , 34, 2747-2753	12.5	35

94	Recent advances in understanding the structure, function, and biotechnological usefulness of the hemoglobin from the bacterium <i>Vitreoscilla</i> . <i>Biotechnology Letters</i> , 2011 , 33, 1705-14	3	34
93	Spatial and temporal variability in atmospheric nitrous oxide generation and emission from full-scale biological nitrogen removal and non-BNR processes. <i>Water Environment Research</i> , 2010 , 82, 2362-72	2.8	33
92	Engineering of ethanolic <i>E. coli</i> with the <i>Vitreoscilla</i> hemoglobin gene enhances ethanol production from both glucose and xylose. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 1103-12	5.7	33
91	Time and Space Uniformity of Indoor Bacteria Concentrations in Chicago Area Residences. <i>Aerosol Science and Technology</i> , 2003 , 37, 899-906	3.4	33
90	Causes and effects of foaming in anaerobic sludge digesters. <i>Water Science and Technology</i> , 1997 , 36, 463-470	2.2	29
89	Aerobic and anaerobic membrane bioreactors for municipal wastewater treatment. <i>Water Environment Research</i> , 2006 , 78, 133-40	2.8	29
88	Anaerobic digester foaming in full-scale cylindrical digesters--effects of organic loading rate, feed characteristics, and mixing. <i>Bioresource Technology</i> , 2014 , 159, 182-92	11	28
87	Anaerobic Thermophilic/Mesophilic Dual-Stage Sludge Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 796-801	2	28
86	Biodegradation of 2-chlorobenzoate by recombinant <i>Burkholderia cepacia</i> expressing <i>Vitreoscilla</i> hemoglobin under variable levels of oxygen availability. <i>Biodegradation</i> , 2003 , 14, 357-65	4.1	27
85	Chromosomal integration of the <i>Vitreoscilla</i> hemoglobin gene in <i>Burkholderia</i> and <i>Pseudomonas</i> for the purpose of producing stable engineered strains with enhanced bioremediating ability. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2001 , 27, 27-33	4.2	27
84	Model development and simulation for predicting risk of foaming in anaerobic digestion systems. <i>Bioresource Technology</i> , 2010 , 101, 4306-14	11	25
83	Toxicity and biogas production potential of refinery waste sludge for anaerobic digestion. <i>Chemosphere</i> , 2016 , 144, 1170-6	8.4	24
82	Enhanced heme protein expression by ammonia-oxidizing communities acclimated to low dissolved oxygen conditions. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 10211-21	5.7	24
81	Reclaimed wastewater as a viable water source for agricultural irrigation: A review of food crop growth inhibition and promotion in the context of environmental change. <i>Science of the Total Environment</i> , 2020 , 739, 139756	10.2	23
80	The Biochemistry of <i>Vitreoscilla</i> hemoglobin. <i>Computational and Structural Biotechnology Journal</i> , 2012 , 3, e201210002	6.8	23
79	Mathematical modeling of aerobic membrane bioreactor (MBR) using activated sludge model no. 1 (ASM1). <i>Journal of Industrial and Engineering Chemistry</i> , 2009 , 15, 835-840	6.3	22
78	Aerobic thermophilic pretreatment of mixed sludge for pathogen reduction and <i>Nocardia</i> control. <i>Water Environment Research</i> , 1996 , 68, 1093-1098	2.8	22
77	Kinetics and capacities of phosphorus sorption to tertiary stage wastewater alum solids, and process implications for achieving low-level phosphorus effluents. <i>Water Research</i> , 2015 , 85, 226-34	12.5	21

76	Mechanisms of foam formation in anaerobic digesters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 621-30	6	21
75	Enhanced kinetics of genetically engineered <i>Burkholderia cepacia</i> : the role of vgb in the hypoxic metabolism of 2-CBA. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 110-8	4.9	21
74	Fate of organic nitrogen in four biological nutrient removal wastewater treatment plants. <i>Water Environment Research</i> , 2010 , 82, 2306-15	2.8	20
73	A full-scale study of mixing and foaming in egg-shaped anaerobic digesters. <i>Bioresource Technology</i> , 2015 , 192, 461-70	11	19
72	Enhanced electrokinetic dissolution of naphthalene and 2,4-DNT from contaminated soils. <i>Journal of Hazardous Materials</i> , 2006 , 136, 61-7	12.8	19
71	Use of biochar to produce reclaimed water for irrigation use. <i>Chemosphere</i> , 2020 , 251, 126403	8.4	17
70	Vitreoscilla hemoglobin enhances ethanol production by <i>Escherichia coli</i> in a variety of growth media. <i>Biomass and Bioenergy</i> , 2012 , 37, 1-8	5.3	17
69	Measurement of organic nitrogen and phosphorus fractions at very low concentrations in wastewater effluents. <i>Water Environment Research</i> , 2011 , 83, 675-83	2.8	17
68	Causes and effects of foaming in anaerobic sludge digesters. <i>Water Science and Technology</i> , 1997 , 36, 463	2.2	17
67	Enhancement of 2,4-dinitrotoluene biodegradation by <i>Burkholderia</i> sp. in sand bioreactors using bacterial hemoglobin technology. <i>Biodegradation</i> , 2004 , 15, 161-71	4.1	17
66	Stabilization and solidification of metal-laden wastes by compaction and magnesium phosphate-based binder. <i>Journal of the Air and Waste Management Association</i> , 2000 , 50, 1623-31	2.4	17
65	Toward Universal Half-Saturation Coefficients: Describing Extant K(s) as a Function of Diffusion. <i>Water Environment Research</i> , 2015 , 87, 387-91	2.8	16
64	<i>Nocardia</i> effects in waste activated sludge. <i>Water Science and Technology</i> , 1998 , 38, 49-54	2.2	16
63	Extended field investigations of ozone-biofiltration advanced water treatment for potable reuse. <i>Water Research</i> , 2020 , 172, 115513	12.5	15
62	Competitive growth of <i>Nocardia</i> and <i>Acinetobacter</i> under anaerobic/aerobic batch operation. <i>Water Research</i> , 2000 , 34, 2667-2674	12.5	14
61	Fate and reduction of bromate formed in advanced water treatment ozonation systems: A critical review. <i>Chemosphere</i> , 2021 , 266, 128964	8.4	14
60	Biomass density-function relationships in suspended growth biological processes - A critical review. <i>Water Research</i> , 2017 , 111, 274-287	12.5	12
59	Comparison of 2-chlorobenzoic acid biodegradation in a membrane bioreactor by <i>B. cepacia</i> and <i>B. cepacia</i> bearing the bacterial hemoglobin gene. <i>Water Research</i> , 2006 , 40, 3123-3130	12.5	12

58	A new approach to assess the dependency of extant half-saturation coefficients on maximum process rates and estimate intrinsic coefficients. <i>Water Research</i> , 2013 , 47, 5986-94	12.5	11
57	Modeling indoor odor/dorant concentrations and the relative humidity effect on odor perception at a water reclamation plant. <i>Atmospheric Environment</i> , 2011 , 45, 7235-7239	5.3	11
56	Modeling organic nitrogen conversions in activated sludge bioreactors. <i>Water Science and Technology</i> , 2011 , 63, 1418-26	2.2	11
55	Role of hemoglobin in improving biodegradation of aromatic contaminants under hypoxic conditions. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2008 , 15, 181-9	0.9	11
54	Simultaneous nitrification and denitrification of municipal wastewater in aerobic membrane bioreactors. <i>Water Environment Research</i> , 2008 , 80, 109-17	2.8	11
53	Nocardia control in activated sludge by classifying selectors. <i>Water Environment Research</i> , 1996 , 68, 235-239	2.39	11
52	Implementation of a demand-side approach to reduce aeration requirements of activated sludge systems: directed acclimation of biomass and its effect at the process level. <i>Water Research</i> , 2014 , 62, 147-55	12.5	10
51	Aerobic Thermophilic and Anaerobic Mesophilic Treatment of Sludge. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 790-795	2	10
50	Anaerobic digestion for solids reduction and detoxification of refinery waste streams. <i>Process Biochemistry</i> , 2016 , 51, 1552-1560	4.8	9
49	Sustainability Assessment for Indirect Potable Reuse: A Case Study from Reno, Nevada. <i>Water Environment Research</i> , 2018 , 90, 748-760	2.8	9
48	Microbial community structures in conventional activated sludge system and membrane bioreactor (MBR). <i>Biotechnology and Bioprocess Engineering</i> , 2009 , 14, 848-853	3.1	9
47	Nutrient removal process selection for planning and design of large wastewater treatment plant upgrade needs. <i>Water Science and Technology</i> , 2008 , 57, 1345-8	2.2	9
46	Characterization of heme protein expressed by ammonia-oxidizing bacteria under low dissolved oxygen conditions. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3231-9	5.7	8
45	Verification of enhanced phosphate removal capability in pure cultures of <i>Acinetobacter calcoaceticus</i> under anaerobic/aerobic conditions in an SBR. <i>Biotechnology and Bioprocess Engineering</i> , 2002 , 7, 335-339	3.1	8
44	2-Chlorobenzoate biodegradation by recombinant <i>Burkholderia cepacia</i> under hypoxic conditions in a membrane bioreactor. <i>Water Environment Research</i> , 2005 , 77, 511-8	2.8	8
43	Modeling the fate and human health impacts of pharmaceuticals and personal care products in reclaimed wastewater irrigation for agriculture. <i>Environmental Pollution</i> , 2021 , 276, 116532	9.3	8
42	Gas-Phase Ozone Oxidation of Hydrogen Sulfide for Odor Treatment in Water Reclamation Plants. <i>Ozone: Science and Engineering</i> , 2013 , 35, 390-398	2.4	7
41	Estimation of autotrophic maximum specific growth rate constant--experience from the long-term operation of a laboratory-scale sequencing batch reactor system. <i>Water Environment Research</i> , 2008 , 80, 355-66	2.8	7

40	Competitive growth of <i>Gordonia</i> and <i>Acinetobacter</i> in continuous flow aerobic and anaerobic/aerobic reactors. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 577-582	3.3	6
39	Trace organic contaminants in field-scale cultivated alfalfa, soil, and pore water after 10 years of irrigation with reclaimed wastewater. <i>Science of the Total Environment</i> , 2020 , 744, 140698	10.2	6
38	Directed evolution to produce sludge communities with improved oxygen uptake abilities. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10725-34	5.7	5
37	Acclimation of denitrifying activated sludge to a single vs. complex external carbon source during a start-up of sequencing batch reactors treating ammonium-rich anaerobic sludge digester liquors. <i>Biodegradation</i> , 2014 , 25, 881-92	4.1	5
36	Effect of influent nitrogen speciation on organic nitrogen occurrence in activated sludge process effluents. <i>Water Environment Research</i> , 2011 , 83, 761-6	2.8	5
35	Temperature and SRT Effects on Aerobic Thermophilic Sludge Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 1999 , 125, 626-629	2	5
34	The Water-Economy Nexus: a Composite Index Approach to Evaluate Urban Water Vulnerability. <i>Water Resources Management</i> , 2020 , 34, 409-423	3.7	5
33	Microbial community in biofilters for water reuse applications: A critical review. <i>Science of the Total Environment</i> , 2021 , 773, 145655	10.2	5
32	Full-scale N removal from centrate using a sidestream process with a mainstream carbon source. <i>Water Environment Research</i> , 2020 , 92, 1922-1934	2.8	5
31	Engineering of <i>Nitrosomonas europaea</i> to express <i>Vitreoscilla</i> hemoglobin enhances oxygen uptake and conversion of ammonia to nitrite. <i>AMB Express</i> , 2015 , 5, 135	4.1	4
30	Laboratory Evaluation of Sorptive Filtration Media Mixtures for Targeted Pollutant Removals from Simulated Stormwater. <i>Water Environment Research</i> , 2015 , 87, 789-95	2.8	4
29	Control of partial nitrification of centrate in a sequencing batch reactor. <i>Water Environment Research</i> , 2010 , 82, 819-29	2.8	4
28	Nitrogen Species Measurement in Low Total Nitrogen Effluents. <i>Proceedings of the Water Environment Federation</i> , 2008 , 2008, 3775-3788		4
27	Aerobic membrane bioreactor for ammonium-rich wastewater treatment. <i>Water Environment Research</i> , 2007 , 79, 2352-62	2.8	4
26	Airborne Bacteria Control Under Chamber and Test-Home Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2003 , 129, 202-208	2	4
25	Density-Based Separation of Microbial Functional Groups in Activated Sludge. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	3
24	A methodological approach for assessing indoor occupational risk from odor perception. <i>Journal of Risk Research</i> , 2013 , 16, 51-67	4.2	3
23	Comparison of two dynamic measurement methods of odor and odorant emission rates from freshly dewatered biosolids. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 1746-52		3

22	Anaerobic and aerobic transformations affecting stability of dewatered sludge during long-term storage in a lagoon. <i>Water Environment Research</i> , 2012 , 84, 17-24	2.8	3
21	The Effect of Anaerobic Selectors on Nocardioform Organism Growth in Activated Sludge. <i>Water Environment Research</i> , 1999 , 71, 1151-1157	2.8	3
20	Longitudinal monitoring of SARS-CoV-2 in wastewater using viral genetic markers and the estimation of unconfirmed COVID-19 cases.. <i>Science of the Total Environment</i> , 2022 , 817, 152958	10.2	3
19	Critical review of effluent dissolved organic nitrogen removal by soil/aquifer-based treatment systems. <i>Chemosphere</i> , 2021 , 269, 129406	8.4	3
18	Trace and bulk organics removal during ozone-biofiltration treatment for potable reuse applications. <i>Water Environment Research</i> , 2020 , 92, 430-440	2.8	3
17	Enhanced stabilization of digested sludge during long-term storage in anaerobic lagoons. <i>Water Environment Research</i> , 2014 , 86, 291-5	2.8	2
16	Case Study of Anaerobic Digester Foaming: Effects of Mixing in Full-Scale Digesters. <i>Proceedings of the Water Environment Federation</i> , 2013 , 2013, 6945-6962		2
15	Odor emission rate estimation of indoor industrial sources using a modified inverse modeling method. <i>Journal of the Air and Waste Management Association</i> , 2011 , 61, 872-81	2.4	2
14	Case study of odor and indoor air quality assessment in the dewatering building at the Stickney Water Reclamation Plant. <i>Water Science and Technology</i> , 2012 , 65, 773-9	2.2	2
13	Study on degradation of a commercial rigid polyurethane foam used for filling of process gas equipment.		2
12	Investigation of direct waste-activated sludge dewatering benefits and costs in a water resource recovery facility. <i>Water Environment Research</i> , 2021 , 93, 2998	2.8	2
11	University-utility partnerships: Best practices for water innovation and collaboration. <i>Water Environment Research</i> , 2020 , 92, 314-319	2.8	2
10	Removal of SARS-CoV-2 viral markers through a water reclamation facility. <i>Water Environment Research</i> , 2021 , 93, 2819-2827	2.8	2
9	Review of Decision-Making Support Tools for Water Treatment Technologies in Developing Countries. <i>Journal - American Water Works Association</i> , 2015 , 107, 64-76	0.5	1
8	Microbial community characterization in advanced water reclamation for potable reuse.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 2763	5.7	0
7	Seasonal and influent characteristic effects on hydrogen sulfide generation at a water reclamation plant. <i>Water Science and Technology</i> , 2014 , 70, 1322-8	2.2	
6	Occurrence and enrichment of 'bacterial sherpas': climb to sustainability in wastewater treatment. <i>Water Science and Technology</i> , 2015 , 72, 1481-7	2.2	
5	Understanding and Controlling Foam in Anaerobic Digesters: Three Full-Scale Case Studies. <i>Proceedings of the Water Environment Federation</i> , 2012 , 2012, 7852-7875		

- 4 Temperature and SRT Effects on Aerobic Thermophilic Sludge Treatment. *Journal of Environmental Engineering, ASCE*, **2001**, 127, 91-94 2
- 3 Continuous Simulation of Highly Urbanized Watershed to Quantify Nutrients Loadings. *Water (Switzerland)*, **2021**, 13, 2910 3
- 2 Sludge management and utilization for decarbonization **2022**, 171-186
- 1 Toward a net zero circular water economy **2022**, 1-13