

Krishna Pagilla

List of Publications by Year in Descending Order

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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	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
110	Sludge management and utilization for decarbonization 2022 , 171-186		
109	Microbial community characterization in advanced water reclamation for potable reuse.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 2763	5.7	0
108	Toward a net zero circular water economy 2022 , 1-13		
107	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
106	Continuous Simulation of Highly Urbanized Watershed to Quantify Nutrients Loadings. <i>Water (Switzerland)</i> , 2021 , 13, 2910	3	
105	Critical review of effluent dissolved organic nitrogen removal by soil/aquifer-based treatment systems. <i>Chemosphere</i> , 2021 , 269, 129406	8.4	3
104	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
103	Microbial community in biofilters for water reuse applications: A critical review. <i>Science of the Total Environment</i> , 2021 , 773, 145655	10.2	5
102	Fate and reduction of bromate formed in advanced water treatment ozonation systems: A critical review. <i>Chemosphere</i> , 2021 , 266, 128964	8.4	14
101	Removal of SARS-CoV-2 viral markers through a water reclamation facility. <i>Water Environment Research</i> , 2021 , 93, 2819-2827	2.8	2
100	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
99	Use of biochar to produce reclaimed water for irrigation use. <i>Chemosphere</i> , 2020 , 251, 126403	8.4	17
98	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
97	Extended field investigations of ozone-biofiltration advanced water treatment for potable reuse. <i>Water Research</i> , 2020 , 172, 115513	12.5	15
96	University-utility partnerships: Best practices for water innovation and collaboration. <i>Water Environment Research</i> , 2020 , 92, 314-319	2.8	2
95	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

94	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
93	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
92	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
91	Sustainability Assessment for Indirect Potable Reuse: A Case Study from Reno, Nevada. <i>Water Environment Research</i> , 2018 , 90, 748-760	2.8	9
90	Biomass density-function relationships in suspended growth biological processes - A critical review. <i>Water Research</i> , 2017 , 111, 274-287	12.5	12
89	Toxicity and biogas production potential of refinery waste sludge for anaerobic digestion. <i>Chemosphere</i> , 2016 , 144, 1170-6	8.4	24
88	Anaerobic digestion for solids reduction and detoxification of refinery waste streams. <i>Process Biochemistry</i> , 2016 , 51, 1552-1560	4.8	9
87	Recent applications of Vitreoscilla hemoglobin technology in bioproduct synthesis and bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1627-36	5.7	83
86	A full-scale study of mixing and foaming in egg-shaped anaerobic digesters. <i>Bioresource Technology</i> , 2015 , 192, 461-70	11	19
85	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
84	Directed evolution to produce sludge communities with improved oxygen uptake abilities. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10725-34	5.7	5
83	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
82	Mechanisms of foam formation in anaerobic digesters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 621-30	6	21
81	Occurrence and enrichment of 'bacterial sherpas': climb to sustainability in wastewater treatment. <i>Water Science and Technology</i> , 2015 , 72, 1481-7	2.2	
80	Engineering of Nitrosomonas europaea to express Vitreoscilla hemoglobin enhances oxygen uptake and conversion of ammonia to nitrite. <i>AMB Express</i> , 2015 , 5, 135	4.1	4
79	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
78	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
77	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

76	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	
75	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
74	Enhanced stabilization of digested sludge during long-term storage in anaerobic lagoons. <i>Water Environment Research</i> , 2014 , 86, 291-5	2.8	2
73	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
72	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
71	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
70	A methodological approach for assessing indoor occupational risk from odor perception. <i>Journal of Risk Research</i> , 2013 , 16, 51-67	4.2	3
69	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
68	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
67	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
66	Vitreoscilla hemoglobin enhances ethanol production by Escherichia coli in a variety of growth media. <i>Biomass and Bioenergy</i> , 2012 , 37, 1-8	5.3	17
65	The Biochemistry of Vitreoscilla hemoglobin. <i>Computational and Structural Biotechnology Journal</i> , 2012 , 3, e201210002	6.8	23
64	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
63	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
62	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
61	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
60	Understanding and Controlling Foam in Anaerobic Digesters: Three Full-Scale Case Studies. <i>Proceedings of the Water Environment Federation</i> , 2012 , 2012, 7852-7875		
59	Modeling indoor odor/odorant 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

58	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
57	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
56	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
55	Modeling organic nitrogen conversions in activated sludge bioreactors. <i>Water Science and Technology</i> , 2011 , 63, 1418-26	2.2	11
54	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
53	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
52	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
51	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
50	Effluent dissolved organic nitrogen and dissolved phosphorus removal by enhanced coagulation and microfiltration. <i>Water Research</i> , 2010 , 44, 5306-15	12.5	56
49	Fate of organic nitrogen in four biological nutrient removal wastewater treatment plants. <i>Water Environment Research</i> , 2010 , 82, 2306-15	2.8	20
48	Control of partial nitrification of centrate in a sequencing batch reactor. <i>Water Environment Research</i> , 2010 , 82, 819-29	2.8	4
47	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
46	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
45	Lab-scale study of an anaerobic membrane bioreactor (AnMBR) for dilute municipal wastewater treatment. <i>Biotechnology and Bioengineering</i> , 2010 , 15, 704-708	3.1	49
44	Model development and simulation for predicting risk of foaming in anaerobic digestion systems. <i>Bioresource Technology</i> , 2010 , 101, 4306-14	11	25
43	Treatment of malathion pesticide wastewater with nanofiltration and photo-Fenton oxidation. <i>Desalination</i> , 2010 , 263, 36-44	10.3	67
42	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
41	Microbial community structures in conventional activated sludge system and membrane bioreactor (MBR). <i>Biotechnology and Bioengineering</i> , 2009 , 14, 848-853	3.1	9

40	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
39	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
38	Nitrogen Species Measurement in Low Total Nitrogen Effluents. <i>Proceedings of the Water Environment Federation</i> , 2008 , 2008, 3775-3788		4
37	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
36	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
35	Bioavailability of dissolved organic nitrogen in treated effluents. <i>Water Environment Research</i> , 2008 , 80, 397-406	2.8	64
34	Simultaneous nitrification and denitrification of municipal wastewater in aerobic membrane bioreactors. <i>Water Environment Research</i> , 2008 , 80, 109-17	2.8	11
33	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
32	Laboratory investigation of biodegradability of a polyurethane foam under anaerobic conditions. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1599-1610	4.7	47
31	Aerobic membrane bioreactor for ammonium-rich wastewater treatment. <i>Water Environment Research</i> , 2007 , 79, 2352-62	2.8	4
30	Use of genetically engineered microorganisms (GEMs) for the bioremediation of contaminants. <i>Critical Reviews in Biotechnology</i> , 2006 , 26, 145-64	9.4	99
29	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
28	Aerobic and anaerobic membrane bioreactors for municipal wastewater treatment. <i>Water Environment Research</i> , 2006 , 78, 133-40	2.8	29
27	Low effluent nutrient technologies for wastewater treatment. <i>Water Science and Technology</i> , 2006 , 53, 165-72	2.2	43
26	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
25	Expression of <i>Vitreoscilla</i> hemoglobin in <i>Gordonia amarae</i> enhances biosurfactant production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 693-700	4.2	39
24	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
23	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

22	Enhanced kinetics of genetically engineered Burkholderia cepacia: the role of vgb in the hypoxic metabolism of 2-CBA. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 110-8	4.9	21
21	Filamentous bulking sludge--a critical review. <i>Water Research</i> , 2004 , 38, 793-817	12.5	388
20	Biodegradation of 2-chlorobenzoate by recombinant Burkholderia cepacia expressing Vitreoscilla hemoglobin under variable levels of oxygen availability. <i>Biodegradation</i> , 2003 , 14, 357-65	4.1	27
19	Competitive growth of Gordonia and Acinetobacter in continuous flow aerobic and anaerobic/aerobic reactors. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 577-582	3.3	6
18	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
17	Airborne Bacteria Control Under Chamber and Test-Home Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2003 , 129, 202-208	2	4
16	Verification of enhanced phosphate removal capability in pure cultures of Acinetobacter calcoaceticus under anaerobic/aerobic conditions in an SBR. <i>Biotechnology and Bioprocess Engineering</i> , 2002 , 7, 335-339	3.1	8
15	Chromosomal integration of the Vitreoscilla hemoglobin gene in Burkholderia and Pseudomonas 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
14	Temperature and SRT Effects on Aerobic Thermophilic Sludge Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2001 , 127, 91-94	2	
13	Anaerobic Thermophilic/Mesophilic Dual-Stage Sludge Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 796-801	2	28
12	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
11	Aerobic Thermophilic and Anaerobic Mesophilic Treatment of Sludge. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 790-795	2	10
10	Aerobic thermophilic and anaerobic mesophilic treatment of swine waste. <i>Water Research</i> , 2000 , 34, 2747-2753	12.5	35
9	Competitive growth of Nocardia and Acinetobacter under anaerobic/aerobic batch operation. <i>Water Research</i> , 2000 , 34, 2667-2674	12.5	14
8	Temperature and SRT Effects on Aerobic Thermophilic Sludge Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 1999 , 125, 626-629	2	5
7	The Effect of Anaerobic Selectors on Nocardioform Organism Growth in Activated Sludge. <i>Water Environment Research</i> , 1999 , 71, 1151-1157	2.8	3
6	Nocardia effects in waste activated sludge. <i>Water Science and Technology</i> , 1998 , 38, 49-54	2.2	16
5	Causes and effects of foaming in anaerobic sludge digesters. <i>Water Science and Technology</i> , 1997 , 36, 463-470	2.2	29

4	Causes and effects of foaming in anaerobic sludge digesters. <i>Water Science and Technology</i> , 1997 , 36, 463	2.2	17
3	Nocardia control in activated sludge by classifying selectors. <i>Water Environment Research</i> , 1996 , 68, 235-239		11
2	Aerobic thermophilic pretreatment of mixed sludge for pathogen reduction and Nocardia control. <i>Water Environment Research</i> , 1996 , 68, 1093-1098	2.8	22
1	Study on degradation of a commercial rigid polyurethane foam used for filling of process gas equipment.		2