

Krzysztof Czerwionka

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

644
citations

516710

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37
docs citations

37
times ranked

575
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics and fate of organic nitrogen in municipal biological nutrient removal wastewater treatment plants. <i>Water Research</i> , 2012, 46, 2057-2066.	11.3	63
2	Nitrogen speciation in wastewater treatment plant influents and effluents—the US and Polish case studies. <i>Water Science and Technology</i> , 2008, 57, 1511-1517.	2.5	54
3	Importance of the combined effects of dissolved oxygen and pH on optimization of nitrogen removal in anammox-enriched granular sludge. <i>Process Biochemistry</i> , 2016, 51, 1274-1282.	3.7	39
4	Long-term performance and microbial characteristics of the anammox-enriched granular sludge cultivated in a bench-scale sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2017, 120, 125-135.	3.6	38
5	Integrated plant-wide modelling for evaluation of the energy balance and greenhouse gas footprint in large wastewater treatment plants. <i>Applied Energy</i> , 2021, 282, 116126.	10.1	36
6	Influence of temperature on the activity of anammox granular biomass. <i>Water Science and Technology</i> , 2016, 73, 2518-2525.	2.5	34
7	Waste materials assessment for phosphorus adsorption toward sustainable application in circular economy. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105335.	10.8	31
8	Phosphorus concentration and availability in raw organic waste and post fermentation products. <i>Journal of Environmental Management</i> , 2021, 278, 111468.	7.8	30
9	Strategies for achieving energy neutrality in biological nutrient removal systems – a case study of the Slupsk WWTP (northern Poland). <i>Water Science and Technology</i> , 2017, 75, 727-740.	2.5	28
10	Dissolved and colloidal organic nitrogen removal from wastewater treatment plants effluents and reject waters using physical–chemical processes. <i>Water Science and Technology</i> , 2014, 70, 561-568.	2.5	22
11	Influence of dissolved organic nitrogen on surface waters. <i>Oceanologia</i> , 2016, 58, 39-45.	2.2	22
12	Comparison of the Effects of Conventional and Alternative External Carbon Sources on Enhancing the Denitrification Process. <i>Water Environment Research</i> , 2009, 81, 896-906.	2.7	21
13	Modeling the Effect of External Carbon Source Addition under Different Electron Acceptor Conditions in Biological Nutrient Removal Activated Sludge Systems. <i>Environmental Science & Technology</i> , 2016, 50, 1887-1896.	10.0	18
14	Modeling organic nitrogen conversions in activated sludge bioreactors. <i>Water Science and Technology</i> , 2011, 63, 1418-1426.	2.5	17
15	Modeling External Carbon Addition in Biological Nutrient Removal Processes with an Extension of the International Water Association Activated Sludge Model. <i>Water Environment Research</i> , 2012, 84, 646-655.	2.7	17
16	Modeling the pH effects on nitrogen removal in the anammox-enriched granular sludge. <i>Water Science and Technology</i> , 2017, 75, 378-386.	2.5	16
17	The metagenomic approach to characterization of the microbial community shift during the long-term cultivation of anammox-enriched granular sludge. <i>Journal of Applied Genetics</i> , 2018, 59, 109-117.	1.9	15
18	Nitrogen transformations and mass balances in anaerobic/anoxic/aerobic batch experiments with full-scale biomasses from BNR activated sludge systems. <i>Water Science and Technology</i> , 2009, 60, 2463-2470.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Distillery wastes as external carbon sources for denitrification in municipal wastewater treatment plants. <i>Water Science and Technology</i> , 2012, 65, 1583-1590.	2.5	13
20	Phosphorus and nitrogen forms in liquid fraction of digestates from agricultural biogas plants. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3942-3954.	2.2	13
21	The Influence of Co-Fermentation of Agri-Food Waste with Primary Sludge on Biogas Production and Composition of the Liquid Fraction of Digestate. <i>Energies</i> , 2021, 14, 1907.	3.1	13
22	Combining Computational Fluid Dynamics with a Biokinetic Model for Predicting Ammonia and Phosphate Behavior in Aeration Tanks. <i>Water Environment Research</i> , 2009, 81, 2353-2362.	2.7	11
23	The Use of Organic Coagulants in the Primary Precipitation Process at Wastewater Treatment Plants. <i>Water (Switzerland)</i> , 2020, 12, 1650.	2.7	11
24	The effects of different aeration modes on ammonia removal from sludge digester liquors in the nitrification-anammox process. <i>Water Science and Technology</i> , 2015, 71, 986-995.	2.5	10
25	Effects of different external carbon sources and electron acceptors on interactions between denitrification and phosphorus removal in biological nutrient removal processes. <i>Journal of Zhejiang University: Science B</i> , 2018, 19, 305-316.	2.8	9
26	Effects of different hydraulic models on predicting longitudinal profiles of reactive pollutants in activated sludge reactors. <i>Water Science and Technology</i> , 2008, 58, 555-561.	2.5	8
27	Industrial wastewater as an external carbon source for optimization of nitrogen removal at the Wschodni WWTP in Gdansk (Poland). <i>Water Science and Technology</i> , 2009, 59, 57-64.	2.5	8
28	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, 881-892.	3.0	8
29	A distillery by-product as an external carbon source for enhancing denitrification in mainstream and sidestream treatment processes. <i>Water Science and Technology</i> , 2011, 64, 2072-2079.	2.5	7
30	Distillery fusel oil as an alternative carbon source for denitrification – from laboratory experiments to full-scale applications. <i>Water Science and Technology</i> , 2014, 69, 1626-1633.	2.5	4
31	Application of the Anammox Process for Treatment of Liquid Phase Digestate. <i>Water (Switzerland)</i> , 2020, 12, 2965.	2.7	3
32	Denitrification Process Enhancement and Diversity of the Denitrifying Community in the Full Scale Activated Sludge System after Adaptation to Fusel Oil. <i>Energies</i> , 2021, 14, 5225.	3.1	3
33	The Influence of Low-Temperature Disintegration on the Co-Fermentation Process of Distillation Residue and Waste-Activated Sludge. <i>Energies</i> , 2022, 15, 482.	3.1	3
34	Comparison of the Effects of Conventional and Alternative External Carbon Sources on Enhancing the Denitrification Process. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 289-307.	0.0	2
35	Possibilities of Leachate Co-Treatment Originating from Biogas Production in the Deammonification Process. <i>Journal of Ecological Engineering</i> , 2020, 21, 14-19.	1.1	2
36	Nutrient recovery from deammonification effluent in a pilot study using two-step reject water treatment technology. <i>Water Resources and Industry</i> , 2021, 25, 100148.	3.9	1

#	ARTICLE	IF	CITATIONS
37	Combining Computational Fluid Dynamics (CFD) with a Biokinetic Model for Predicting Ammonia and Phosphate Behavior in Aeration Tanks. Proceedings of the Water Environment Federation, 2008, 2008, 3248-3265.	0.0	0