

Slawomir Hermanowicz

List of Publications by Year in descending order

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67
papers

2,346
citations

236612

25
h-index

214527

47
g-index

71
all docs

71
docs citations

71
times ranked

2544
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane bioreactor operation at short solids retention times: performance and biomass characteristics. <i>Water Research</i> , 2005, 39, 981-992.	5.3	183
2	The effect of organic loading on process performance and membrane fouling in a submerged membrane bioreactor treating municipal wastewater. <i>Water Research</i> , 2006, 40, 2675-2683.	5.3	181
3	Bacterial Community Structure in Geographically Distributed Biological Wastewater Treatment Reactors. <i>Environmental Science & Technology</i> , 2010, 44, 7391-7396.	4.6	180
4	Effect of quorum quenching on the reactor performance, biofouling and biomass characteristics in membrane bioreactors. <i>Water Research</i> , 2013, 47, 187-196.	5.3	145
5	Influence of mixed liquor properties and aeration intensity on membrane fouling in a submerged membrane bioreactor at high mixed liquor suspended solids concentrations. <i>Water Research</i> , 2007, 41, 947-958.	5.3	121
6	A simple 2D biofilm model yields a variety of morphological features. <i>Mathematical Biosciences</i> , 2001, 169, 1-14.	0.9	103
7	Effects of short solids retention time on microbial community in a membrane bioreactor. <i>Bioresource Technology</i> , 2009, 100, 3489-3496.	4.8	92
8	Treatment of food waste recycling wastewater using anaerobic ceramic membrane bioreactor for biogas production in mainstream treatment process of domestic wastewater. <i>Water Research</i> , 2017, 123, 86-95.	5.3	82
9	The characteristics of extracellular polymeric substances and soluble microbial products in moving bed biofilm reactor-membrane bioreactor. <i>Bioresource Technology</i> , 2013, 148, 436-442.	4.8	73
10	Removal of chloramphenicol from aqueous solution by nanoscale zero-valent iron particles. <i>Chemical Engineering Journal</i> , 2014, 257, 98-104.	6.6	72
11	Effect of intermittent aeration cycle on nutrient removal and microbial community in a fluidized bed reactor-membrane bioreactor combo system. <i>Bioresource Technology</i> , 2014, 156, 195-205.	4.8	63
12	Some fluidization characteristics of biological beds. <i>Biotechnology and Bioengineering</i> , 1983, 25, 1321-1330.	1.7	59
13	Effects of short-time aerobic digestion on extracellular polymeric substances and sludge features of waste activated sludge. <i>Chemical Engineering Journal</i> , 2016, 299, 177-183.	6.6	56
14	Enhanced struvite recovery from wastewater using a novel cone-inserted fluidized bed reactor. <i>Journal of Environmental Sciences</i> , 2014, 26, 765-774.	3.2	50
15	Evaluation Of Ozone/Biological Treatment For Disinfection Byproducts Control And Biologically Stable Water. <i>Ozone: Science and Engineering</i> , 1993, 15, 95-130.	1.4	45
16	Specific Resistance to Filtration of Biomass from Membrane Bioreactor Reactor and Activated Sludge: Effects of Exocellular Polymeric Substances and Dispersed Microorganisms. <i>Water Environment Research</i> , 2005, 77, 187-192.	1.3	42
17	Potential interactions between syntrophic bacteria and methanogens via type IV pili and quorum-sensing systems. <i>Environment International</i> , 2020, 138, 105650.	4.8	41
18	Carbamazepine removal from wastewater and the degradation mechanism in a submerged forward osmotic membrane bioreactor. <i>Bioresource Technology</i> , 2020, 314, 123732.	4.8	39

#	ARTICLE	IF	CITATIONS
19	Advances in BiOX-based ternary photocatalysts for water technology and energy storage applications: Research trends, challenges, solutions, and ways forward. <i>Reviews in Environmental Science and Biotechnology</i> , 2022, 21, 331-370.	3.9	39
20	Simultaneous removal of phosphorus and nitrogen from sewage using a novel combo system of fluidized bed reactorâ€“membrane bioreactor (FBRâ€“MBR). <i>Bioresource Technology</i> , 2013, 149, 276-285.	4.8	38
21	Two-dimensional simulations of biofilm development: effects of external environmental conditions. <i>Water Science and Technology</i> , 1999, 39, 107.	1.2	36
22	The effect of solids retention times on the characterization of extracellular polymeric substances and soluble microbial products in a submerged membrane bioreactor. <i>Bioresource Technology</i> , 2014, 163, 395-398.	4.8	35
23	Developing a biosensor for estrogens in water samples: Study of the real-time response of live cells of the estrogen-sensitive yeast strain RMY/ER-ERE using fluorescence microscopy. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1654-1658.	5.3	32
24	Fractal structure of biofilms: new tools for investigation of morphology. <i>Water Science and Technology</i> , 1995, 32, 99.	1.2	30
25	A Comparison of the Physical, Chemical, and Biological Properties of Sludges from a Complete-Mix Activated Sludge Reactor and a Submerged Membrane Bioreactor. <i>Water Environment Research</i> , 2007, 79, 320-328.	1.3	30
26	Quick start-up and stable operation of a one-stage deammonification reactor with a low quantity of AOB and ANAMMOX biomass. <i>Science of the Total Environment</i> , 2019, 654, 933-941.	3.9	28
27	Inhibition of anammox by sludge thermal hydrolysis and metagenomic insights. <i>Bioresource Technology</i> , 2018, 270, 46-54.	4.8	26
28	Sustainability in water resources management: changes in meaning and perception. <i>Sustainability Science</i> , 2008, 3, 181-188.	2.5	24
29	Adsorption characterizations of biosorbent extracted from waste activated sludge for Pb(II) and Zn(II). <i>Desalination and Water Treatment</i> , 2016, 57, 9343-9353.	1.0	24
30	A model of two-dimensional biofilm morphology. <i>Water Science and Technology</i> , 1998, 37, 219.	1.2	23
31	Characterization of nitrifying microbial community in a submerged membrane bioreactor at short solids retention times. <i>Bioresource Technology</i> , 2013, 149, 200-207.	4.8	23
32	Associated Adsorption Characteristics of Pb(II) and Zn(II) by a Novel Biosorbent Extracted from Waste-Activated Sludge. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	0.7	23
33	Degradation mechanism of Ibuprofen via a forward osmosis membrane bioreactor. <i>Bioresource Technology</i> , 2021, 321, 124448.	4.8	23
34	Detachment of biofilm bacteria due to variations in nutrient supply. <i>Water Science and Technology</i> , 1998, 37, 211.	1.2	22
35	Abel Wolman's â€œThe Metabolism of Citiesâ€“Revisited: A Case for Water Recycling and Reuse. <i>Water Science and Technology</i> , 1999, 40, 29.	1.2	22
36	Sustainable Natural Systems for Treatment and Disposal of Food Processing Wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2010, 40, 662-697.	6.6	22

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37	Nitrate removal from drinking water through the use of encapsulated microorganisms in alginate beads. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 1129-1134.	1.2	19
38	Abel Wolman's "The Metabolism of Cities" Revisited: A Case for Water Recycling and Reuse. <i>Water Science and Technology</i> , 1999, 40, 29-36.	1.2	17
39	Variability of ozone reaction kinetics in batch and continuous flow reactors. <i>Water Research</i> , 1999, 33, 2130-2138.	5.3	16
40	Removal mechanism of low-concentration Cr (VI) in a submerged membrane bioreactor activated sludge system. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5351-5360.	1.7	16
41	Anisotropic morphology and fractal dimensions of biofilms. <i>Water Research</i> , 1996, 30, 753-755.	5.3	15
42	Public Perceptions and Willingness-to-Pay for Nanopesticides. <i>Nanomaterials</i> , 2022, 12, 1292.	1.9	12
43	Modeling of turboflo - a novel biofilm reactor for wastewater treatment. <i>Water Science and Technology</i> , 1998, 37, 177-181.	1.2	10
44	Efficacy-Associated Cost Analysis of Copper-Based Nanopesticides for Tomato Disease Control. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 796-804.	1.0	9
45	Modeling of turboflo " a novel biofilm reactor for wastewater treatment. <i>Water Science and Technology</i> , 1998, 37, 177.	1.2	7
46	Secondary clarification of activated sludge: development of operating diagrams. <i>Water Environment Research</i> , 1998, 70, 10-13.	1.3	7
47	A multi-point electrical resistance measurement system for characterization of foam drainage regime and stability. <i>AIChE Journal</i> , 2014, 60, 3143-3150.	1.8	7
48	Effects of Experimental Conditions on Extraction Yield of Extracellular Polymeric Substances by Cation Exchange Resin. <i>Scientific World Journal, The</i> , 2012, 2012, 1-6.	0.8	6
49	Biofilm architecture in a novel pressurized biofilm reactor. <i>Biofouling</i> , 2015, 31, 321-331.	0.8	6
50	Bacterial deposition on and detachment from surfaces in turbulent flow. <i>Biotechnology and Bioengineering</i> , 1989, 33, 157-163.	1.7	5
51	THE EFFECT OF ORGANIC LOADING ON MEMBRANE FOULING IN A SUBMERGED MEMBRANE BIOREACTOR TREATING MUNICIPAL WASTEWATER. <i>Proceedings of the Water Environment Federation</i> , 2004, 2004, 696-716.	0.0	4
52	Effects of Sludge Properties on the Thickening and Dewatering of Waste Activated Sludge. <i>Water Environment Research</i> , 2007, 79, 2412-2419.	1.3	4
53	Theoretical aspects of bulking in activated sludge. <i>Water Environment Research</i> , 1993, 65, 245-249.	1.3	3
54	A novel technique for evaluating foam dynamics in anaerobic digesters. <i>Water Science and Technology</i> , 2013, 67, 2595-2601.	1.2	3

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55	Shifting entrepreneurial landscape and development performance of water startups in emerging water markets. PLoS ONE, 2021, 16, e0246282.	1.1	3
56	Changes in Mixed Liquor and Organic Foulant Properties Affect Membrane Fouling for Non-Nitrifying and Nitrifying Biological Conditions. Water Environment Research, 2009, 81, 255-264.	1.3	2
57	The Effect of Media Fill Ratio on Membrane Fouling in Moving Bed Bioreactors-Membrane Bioreactor. Advanced Materials Research, 0, 726-731, 470-473.	0.3	2
58	Development of an Integrated Moving Bed Biofilm Reactor-Membrane Bioreactor for Wastewater Treatment. Applied Mechanics and Materials, 0, 361-363, 611-614.	0.2	2
59	In-Situ H ₂ O ₂ Cleaning for Fouling Control of Manganese-Doped Ceramic Membrane through Confined Catalytic Oxidation Inside Membrane. Membranes, 2022, 12, 21.	1.4	2
60	Application of the penetration theory to oxygen transfer to biofilms. Biotechnology and Bioengineering, 1987, 29, 762-766.	1.7	1
61	Of: A Comparison of Membrane Bioreactor and Conventional-Activated-Sludge Mixed Liquor and Biosolids Characteristics, R. David Holbrook, Kevin A. Massie, John T. Novak, 77, 323 (2005). Water Environment Research, 2006, 78, 2524-2526.	1.3	1
62	Empirical correlation of volumetric mass transfer coefficient for a rectangular internal-loop airlift bioreactor. Journal of Environmental Engineering and Science, 2008, 7, 411-415.	0.3	1
63	The Application of MBR for the Treatment of Municipal Wastewaters at Short SRT. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
64	A COMPARISON STUDY OF THE TECHNOLOGY ENTREPRENEURSHIP PROGRAMS AT UNIVERSITY COLLEGE OF SOUTHEAST NORWAY AND UNIVERSITY OF CALIFORNIA, BERKELEY. , 2016, , .		1
65	Hydrodynamic Evaluation of a Turbine Ozone Contactor. Ozone: Science and Engineering, 2000, 22, 351-367.	1.4	0
66	The Microbial Community Structures in Two Membrane Bioreactors Detected by Microarray. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
67	Detection of microbial communities in continuous and discontinuous membrane bioreactor using high-density oligonucleotide Microarray. , 2010, , .		0