

Eberhard Morgenroth

List of Publications by Year in descending order

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Version: 2024-02-01

196
papers

10,010
citations

30070

54
h-index

42399

92
g-index

203
all docs

203
docs citations

203
times ranked

7627
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerobic granulation in a sequencing batch reactor. <i>Water Research</i> , 1999, 33, 2283-2290.	11.3	663
2	Aerobic granular sludge in a sequencing batch reactor. <i>Water Research</i> , 1997, 31, 3191-3194.	11.3	499
3	Mainstream partial nitrification and anammox: long-term process stability and effluent quality at low temperatures. <i>Water Research</i> , 2016, 101, 628-639.	11.3	420
4	Gravity-driven membrane filtration for water and wastewater treatment: A review. <i>Water Research</i> , 2019, 149, 553-565.	11.3	306
5	Successful application of nitrification/anammox to wastewater with elevated organic carbon to ammonia ratios. <i>Water Research</i> , 2014, 49, 316-326.	11.3	250
6	Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. <i>Journal of Membrane Science</i> , 2006, 285, 81-89.	8.2	226
7	Activity and growth of anammox biomass on aerobically pre-treated municipal wastewater. <i>Water Research</i> , 2015, 80, 325-336.	11.3	195
8	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
9	Biomass segregation between biofilm and flocs improves the control of nitrite-oxidizing bacteria in mainstream partial nitrification and anammox processes. <i>Water Research</i> , 2019, 154, 104-116.	11.3	191
10	Predation influences the structure of biofilm developed on ultrafiltration membranes. <i>Water Research</i> , 2012, 46, 3323-3333.	11.3	189
11	Simulation of growth and detachment in biofilm systems under defined hydrodynamic conditions. <i>Biotechnology and Bioengineering</i> , 2003, 81, 607-617.	3.3	188
12	Combined Nitrification-Anammox: Advances in Understanding Process Stability. <i>Environmental Science & Technology</i> , 2011, 45, 9735-9742.	10.0	176
13	Linking composition of extracellular polymeric substances (EPS) to the physical structure and hydraulic resistance of membrane biofilms. <i>Water Research</i> , 2018, 132, 211-221.	11.3	161
14	Methanogenic population dynamics and performance of an anaerobic membrane bioreactor (AnMBR) treating swine manure under high shear conditions. <i>Water Research</i> , 2007, 41, 134-144.	11.3	150
15	Activity of metazoa governs biofilm structure formation and enhances permeate flux during Gravity-Driven Membrane (GDM) filtration. <i>Water Research</i> , 2013, 47, 2085-2095.	11.3	136
16	Chemical composition associated with different particle size fractions in municipal, industrial, and agricultural wastewaters. <i>Chemosphere</i> , 2004, 55, 691-703.	8.2	135
17	Formation of aerobic granules for the treatment of real and low-strength municipal wastewater using a sequencing batch reactor operated at constant volume. <i>Water Research</i> , 2016, 105, 341-350.	11.3	133
18	Impact of coexistence of flocs and biofilm on performance of combined nitrification-anammox granular sludge reactors. <i>Water Research</i> , 2015, 68, 127-139.	11.3	131

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19	Endogenous processes during long-term starvation in activated sludge performing enhanced biological phosphorus removal. <i>Water Research</i> , 2006, 40, 1519-1530.	11.3	118
20	Influence of detachment mechanisms on competition in biofilms. <i>Water Research</i> , 2000, 34, 417-426.	11.3	113
21	Effect of long-term idle periods on the performance of sequencing batch reactors. <i>Water Science and Technology</i> , 2000, 41, 105-113.	2.5	111
22	Influence of growth history on sloughing and erosion from biofilms. <i>Water Research</i> , 2004, 38, 3671-3684.	11.3	110
23	Influence of the Antibiotic Erythromycin on Anaerobic Treatment of a Pharmaceutical Wastewater. <i>Environmental Science & Technology</i> , 2006, 40, 3971-3977.	10.0	110
24	Impact of aeration shear stress on permeate flux and fouling layer properties in a low pressure membrane bioreactor for the treatment of grey water. <i>Journal of Membrane Science</i> , 2016, 510, 382-390.	8.2	100
25	Sulfidation Kinetics of Silver Nanoparticles Reacted with Metal Sulfides. <i>Environmental Science & Technology</i> , 2014, 48, 4885-4892.	10.0	93
26	Effect of particulate organic substrate on aerobic granulation and operating conditions of sequencing batch reactors. <i>Water Research</i> , 2015, 85, 158-166.	11.3	93
27	Operating a pilot-scale nitrification/distillation plant for complete nutrient recovery from urine. <i>Water Science and Technology</i> , 2016, 73, 215-222.	2.5	92
28	Role of Biofilm Roughness and Hydrodynamic Conditions in <i>Legionella pneumophila</i> Adhesion to and Detachment from Simulated Drinking Water Biofilms. <i>Environmental Science & Technology</i> , 2015, 49, 4274-4282.	10.0	91
29	Influence of detachment on substrate removal and microbial ecology in a heterotrophic/autotrophic biofilm. <i>Water Research</i> , 2007, 41, 4657-4671.	11.3	90
30	Direct electrochemical oxidation of ammonia on graphite as a treatment option for stored source-separated urine. <i>Water Research</i> , 2015, 69, 284-294.	11.3	90
31	Presence of biofilms on ultrafiltration membrane surfaces increases the quality of permeate produced during ultra-low pressure gravity-driven membrane filtration. <i>Water Research</i> , 2014, 60, 164-173.	11.3	89
32	Roles of ionic strength and biofilm roughness on adhesion kinetics of <i>Escherichia coli</i> onto groundwater biofilm grown on PVC surfaces. <i>Water Research</i> , 2013, 47, 2531-2542.	11.3	86
33	Organic substrate diffusibility governs microbial community composition, nutrient removal performance and kinetics of granulation of aerobic granular sludge. <i>Water Research X</i> , 2019, 4, 100033.	6.1	85
34	Comparing the Resistance, Resilience, and Stability of Replicate Moving Bed Biofilm and Suspended Growth Combined Nitritation-Anammox Reactors. <i>Environmental Science & Technology</i> , 2017, 51, 5108-5117.	10.0	82
35	Transport of oxygen, sodium chloride, and sodium nitrate in biofilms. <i>Chemical Engineering Science</i> , 2006, 61, 1347-1356.	3.8	81
36	From biofilm ecology to reactors: a focused review. <i>Water Science and Technology</i> , 2017, 75, 1753-1760.	2.5	79

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37	Limited simultaneous nitrification-denitrification (SND) in aerobic granular sludge systems treating municipal wastewater: Mechanisms and practical implications. <i>Water Research X</i> , 2020, 7, 100048.	6.1	77
38	Formation of Chlorination Byproducts and Their Emission Pathways in Chlorine Mediated Electro-Oxidation of Urine on Active and Nonactive Type Anodes. <i>Environmental Science & Technology</i> , 2015, 49, 11062-11069.	10.0	76
39	Influence of cleaning frequency and membrane history on fouling in an anaerobic membrane bioreactor. <i>Desalination</i> , 2007, 207, 153-166.	8.2	75
40	A Research Agenda for the Future of Urban Water Management: Exploring the Potential of Nongrid, Small-Grid, and Hybrid Solutions. <i>Environmental Science & Technology</i> , 2020, 54, 5312-5322.	10.0	73
41	Evaluating operating conditions for outcompeting nitrite oxidizers and maintaining partial nitrification in biofilm systems using biofilm modeling and Monte Carlo filtering. <i>Water Research</i> , 2010, 44, 1995-2009.	11.3	71
42	Biofilms in 3D porous media: Delineating the influence of the pore network geometry, flow and mass transfer on biofilm development. <i>Water Research</i> , 2018, 134, 280-291.	11.3	71
43	The mechanism and design of sequencing batch reactor systems for nutrient removal - the state of the art. <i>Water Science and Technology</i> , 2001, 43, 53-60.	2.5	68
44	Influence of shear on the production of extracellular polymeric substances in membrane bioreactors. <i>Water Research</i> , 2009, 43, 4305-4315.	11.3	67
45	Response of Simulated Drinking Water Biofilm Mechanical and Structural Properties to Long-Term Disinfectant Exposure. <i>Environmental Science & Technology</i> , 2016, 50, 1779-1787.	10.0	66
46	The influence of particle size on microbial hydrolysis of protein particles in activated sludge. <i>Water Research</i> , 2006, 40, 2064-2074.	11.3	65
47	Biofilm increases permeate quality by organic carbon degradation in low pressure ultrafiltration. <i>Water Research</i> , 2015, 85, 512-520.	11.3	64
48	Growth of <i>Nitrosococcus</i> -Related Ammonia Oxidizing Bacteria Coincides with Extremely Low pH Values in Wastewater with High Ammonia Content. <i>Environmental Science & Technology</i> , 2017, 51, 6857-6866.	10.0	64
49	Microbial activity balance in size fractionated suspended growth biomass from full-scale sidestream combined nitrification-anammox reactors. <i>Bioresource Technology</i> , 2016, 218, 38-45.	9.6	63
50	Changes in the Structure and Function of Microbial Communities in Drinking Water Treatment Bioreactors upon Addition of Phosphorus. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7473-7481.	3.1	60
51	The influence of aeration intensity on predation and EPS production in membrane bioreactors. <i>Water Research</i> , 2010, 44, 2541-2553.	11.3	60
52	The composition and compression of biofilms developed on ultrafiltration membranes determine hydraulic biofilm resistance. <i>Water Research</i> , 2016, 102, 63-72.	11.3	60
53	Effect of humic acid on the kinetics of silver nanoparticle sulfidation. <i>Environmental Science: Nano</i> , 2016, 3, 203-212.	4.3	59
54	Influence of Different Sewer Biofilms on Transformation Rates of Drugs. <i>Environmental Science & Technology</i> , 2016, 50, 13351-13360.	10.0	58

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55	Modeling in-sewer transformations at catchment scale – implications on drug consumption estimates in wastewater-based epidemiology. <i>Water Research</i> , 2017, 122, 655-668.	11.3	58
56	Modeling the low pH limit of <i>Nitrosomonas eutropha</i> in high-strength nitrogen wastewaters. <i>Water Research</i> , 2015, 83, 161-170.	11.3	56
57	Syntrophic acetate oxidation in two-phase (acid–methane) anaerobic digesters. <i>Water Science and Technology</i> , 2011, 64, 1812-1820.	2.5	55
58	Effect of fouling layer spatial distribution on permeate flux: A theoretical and experimental study. <i>Journal of Membrane Science</i> , 2014, 471, 130-137.	8.2	51
59	Inorganic particles increase biofilm heterogeneity and enhance permeate flux. <i>Water Research</i> , 2014, 64, 177-186.	11.3	51
60	Mathematical modelling of biofilms and biofilm reactors for engineering design. <i>Water Science and Technology</i> , 2010, 62, 1821-1836.	2.5	50
61	Biofilm engineering: linking biofilm development at different length and time scales. <i>Reviews in Environmental Science and Biotechnology</i> , 2009, 8, 203-208.	8.1	48
62	Effect of short term external perturbations on bacterial ecology and activities in a partial nitrification and anammox reactor. <i>Bioresource Technology</i> , 2016, 219, 527-535.	9.6	48
63	Inhibitory effects of the macrolide antimicrobial tylosin on anaerobic treatment. <i>Biotechnology and Bioengineering</i> , 2008, 101, 73-82.	3.3	46
64	Systematic evaluation of biofilm models for engineering practice: components and critical assumptions. <i>Water Science and Technology</i> , 2011, 64, 930-944.	2.5	45
65	The effect of different aeration conditions in activated sludge – Side-stream system on sludge production, sludge degradation rates, active biomass and extracellular polymeric substances. <i>Water Research</i> , 2015, 85, 46-56.	11.3	43
66	Inhibition of Direct Electrolytic Ammonia Oxidation Due to a Change in Local pH. <i>Electrochimica Acta</i> , 2015, 165, 348-355.	5.2	42
67	Effect of biofilm structural deformation on hydraulic resistance during ultrafiltration: A numerical and experimental study. <i>Water Research</i> , 2018, 145, 375-387.	11.3	41
68	Practical identifiability of biokinetic parameters of a model describing two–step nitrification in biofilms. <i>Biotechnology and Bioengineering</i> , 2008, 101, 497-514.	3.3	40
69	Biofilm imaging in porous media by laboratory X-Ray tomography: Combining a non-destructive contrast agent with propagation-based phase-contrast imaging tools. <i>PLoS ONE</i> , 2017, 12, e0180374.	2.5	40
70	Controlled biomass removal – the key parameter to achieve enhanced biological phosphorus removal in biofilm systems. <i>Water Science and Technology</i> , 1999, 39, 33.	2.5	39
71	Modeling of chord length distributions. <i>Chemical Engineering Science</i> , 2006, 61, 3962-3973.	3.8	39
72	Effect of Ozone Treatment on Nano-Sized Silver Sulfide in Wastewater Effluent. <i>Environmental Science & Technology</i> , 2015, 49, 10911-10919.	10.0	38

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73	Biofilm models for the practitioner. <i>Water Science and Technology</i> , 2000, 41, 509-512.	2.5	37
74	Nutrient Limitation in a Compost Biofilter Degrading Hexane. <i>Journal of the Air and Waste Management Association</i> , 1996, 46, 300-308.	1.9	36
75	Biodegradation of Microcystins during Gravity-Driven Membrane (GDM) Ultrafiltration. <i>PLoS ONE</i> , 2014, 9, e111794.	2.5	35
76	Physical structure determines compression of membrane biofilms during Gravity Driven Membrane (GDM) ultrafiltration. <i>Water Research</i> , 2018, 143, 539-549.	11.3	35
77	Evaluation of conceptual model and predictors of faecal sludge dewatering performance in Senegal and Tanzania. <i>Water Research</i> , 2019, 167, 115101.	11.3	35
78	Evaluation of microscopic techniques (epifluorescence microscopy, CLSM, TPE-LSM) as a basis for the quantitative image analysis of activated sludge. <i>Water Research</i> , 2005, 39, 456-468.	11.3	34
79	Removal rates and energy demand of the electrochemical oxidation of ammonia and organic substances in real stored urine. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 480-491.	2.4	34
80	Pore-Scale Hydrodynamics in a Progressively Bioclogged Three-Dimensional Porous Medium: 3D Particle Tracking Experiments and Stochastic Transport Modeling. <i>Water Resources Research</i> , 2018, 54, 2183-2198.	4.2	34
81	Early testing of new sanitation technology for urban slums: The case of the Blue Diversion Toilet. <i>Science of the Total Environment</i> , 2017, 576, 264-272.	8.0	33
82	Stratification in the physical structure and cohesion of membrane biofilms – Implications for hydraulic resistance. <i>Journal of Membrane Science</i> , 2018, 564, 897-904.	8.2	33
83	Chemical composition, nutrient-balancing and biological treatment of hand washing greywater. <i>Water Research</i> , 2018, 144, 752-762.	11.3	33
84	Model evaluation and optimisation of nutrient removal potential for sequencing batch reactors. <i>Water S A</i> , 2002, 28, 423.	0.4	32
85	A framework for good biofilm reactor modeling practice (GBRMP). <i>Water Science and Technology</i> , 2018, 77, 1149-1164.	2.5	32
86	Evaluating 3-D and 1-D mathematical models for mass transport in heterogeneous biofilms. <i>Water Science and Technology</i> , 2000, 41, 347-356.	2.5	31
87	Comparing biofilm models for a single species biofilm system. <i>Water Science and Technology</i> , 2004, 49, 145-154.	2.5	31
88	Mechanisms of SMP production in membrane bioreactors: Choosing an appropriate mathematical model structure. <i>Water Research</i> , 2010, 44, 5240-5251.	11.3	31
89	Two-Stage Acidic-Alkaline Hydrothermal Pretreatment of Lignocellulose for the High Recovery of Cellulose and Hemicellulose Sugars. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 1069-1087.	2.9	31
90	Interactions between <i>Clostridium beijerinckii</i> and <i>Geobacter metallireducens</i> in co-culture fermentation with anthrahydroquinone-2,6-disulfonate (AH ₂ QDS) for enhanced biohydrogen production from xylose. <i>Biotechnology and Bioengineering</i> , 2013, 110, 164-172.	3.3	31

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91	Controlled biomass removal - the key parameter to achieve enhanced biological phosphorus removal in biofilm systems. <i>Water Science and Technology</i> , 1999, 39, 33-40.	2.5	30
92	Combined biomimetic and inorganic acids hydrolysis of hemicellulose in <i>Miscanthus</i> for bioethanol production. <i>Bioresource Technology</i> , 2012, 110, 278-287.	9.6	30
93	Biofilm compressibility in ultrafiltration: A relation between biofilm morphology, mechanics and hydraulic resistance. <i>Water Research</i> , 2019, 157, 335-345.	11.3	30
94	Lignocellulosic hydrolysates and extracellular electron shuttles for H ₂ production using co-culture fermentation with <i>Clostridium beijerinckii</i> and <i>Geobacter metallireducens</i> . <i>Bioresource Technology</i> , 2013, 147, 89-95.	9.6	29
95	Locally produced natural conditioners for dewatering of faecal sludge. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2802-2814.	2.2	29
96	Evaluating heterotrophic growth in a nitrifying biofilm reactor using fluorescence in situ hybridization and mathematical modeling. <i>Water Science and Technology</i> , 2005, 52, 135-141.	2.5	28
97	Estimation of countrywide N ₂ O emissions from wastewater treatment in Switzerland using long-term monitoring data. <i>Water Research X</i> , 2021, 13, 100122.	6.1	28
98	Optical method for long-term and large-scale monitoring of spatial biofilm development. <i>Biotechnology and Bioengineering</i> , 2006, 94, 773-782.	3.3	27
99	Carbohydrate storage in anaerobic sequencing batch reactors. <i>Water Research</i> , 2007, 41, 4721-4729.	11.3	27
100	Anthrahydroquinone-2,6-disulfonate (AH ₂ QDS) increases hydrogen molar yield and xylose utilization in growing cultures of <i>Clostridium beijerinckii</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 855-864.	3.6	27
101	An energy-efficient membrane bioreactor for on-site treatment and recovery of wastewater. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2015, 5, 448-455.	1.8	26
102	Linking seasonal N ₂ O emissions and nitrification failures to microbial dynamics in a SBR wastewater treatment plant. <i>Water Research X</i> , 2021, 11, 100098.	6.1	26
103	The use of mathematical models in teaching wastewater treatment engineering. <i>Water Science and Technology</i> , 2002, 45, 229-233.	2.5	24
104	Results from the multi-species Benchmark Problem (BM3) using one-dimensional models. <i>Water Science and Technology</i> , 2004, 49, 163-168.	2.5	24
105	Analyzing characteristic length scales in biofilm structures. <i>Biotechnology and Bioengineering</i> , 2009, 102, 368-379.	3.3	23
106	Blue Diversion: a new approach to sanitation in informal settlements. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2015, 5, 64-71.	1.8	23
107	Modeling hydraulic transport and anaerobic uptake by PAOs and GAOs during wastewater feeding in EBPR granular sludge reactors. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1688-1702.	3.3	23
108	Effect of backwashing on perchlorate removal in fixed bed biofilm reactors. <i>Water Research</i> , 2007, 41, 1949-1959.	11.3	22

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109	Integrating granular activated carbon (GAC) to gravity-driven membrane (GDM) to improve its flux stabilization: Respective roles of adsorption and biodegradation by GAC. <i>Science of the Total Environment</i> , 2021, 768, 144758.	8.0	22
110	Estimation of kinetic parameters of a model for deammonification in biofilms and evaluation of the model. <i>Water Science and Technology</i> , 2007, 55, 291-299.	2.5	21
111	Chemisorption of oxygen onto activated carbon can enhance the stability of biological perchlorate reduction in fixed bed biofilm reactors. <i>Water Research</i> , 2008, 42, 3425-3434.	11.3	21
112	Anthrahydroquinone-2,6-disulfonate increases the rate of hydrogen production during <i>Clostridium beijerinckii</i> fermentation with glucose, xylose, and cellobiose. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11701-11709.	7.1	21
113	Rethinking wastewater characterisation methods for activated sludge systems – a position paper. <i>Water Science and Technology</i> , 2013, 67, 2363-2373.	2.5	21
114	Sequencing Batch Reactor Technology: Concepts, Design and Experiences (<i>Abridged</i>). <i>Water and Environment Journal</i> , 1998, 12, 314-320.	2.2	20
115	Comparing global sensitivity analysis for a biofilm model for two-step nitrification using the qualitative screening method of Morris or the quantitative variance-based Fourier Amplitude Sensitivity Test (FAST). <i>Water Science and Technology</i> , 2007, 56, 85-93.	2.5	20
116	Method to identify potential phosphorus rate-limiting conditions in post-denitrification biofilm reactors within systems designed for simultaneous low-level effluent nitrogen and phosphorus concentrations. <i>Water Research</i> , 2012, 46, 6228-6238.	11.3	20
117	Biofilm formation and permeate quality improvement in Gravity Driven Membrane ultrafiltration. <i>Water Science and Technology: Water Supply</i> , 2014, 14, 274-282.	2.1	20
118	Transformation of Nanoscale and Ionic Cu and Zn during the Incineration of Digested Sewage Sludge (Biosolids). <i>Environmental Science & Technology</i> , 2019, 53, 11704-11713.	10.0	19
119	Comparing the anti-bacterial performance of chlorination and electrolysis post-treatments in a hand washing water recycling system. <i>Water Research X</i> , 2019, 2, 100020.	6.1	19
120	Modelling a spatially heterogeneous biofilm and the bulk fluid: selected results from Benchmark Problem 2 (BM2). <i>Water Science and Technology</i> , 2004, 49, 155-162.	2.5	18
121	Wastewater treatment models in teaching and training: the mismatch between education and requirements for jobs. <i>Water Science and Technology</i> , 2009, 59, 745-753.	2.5	18
122	Controlling Bacterial Pathogens in Water for Reuse: Treatment Technologies for Water Recirculation in the Blue Diversion Autarky Toilet. <i>Frontiers in Environmental Science</i> , 2017, 5, 90.	3.3	18
123	Use and Occurrence of Fuel Oxygenates in Europe. <i>ACS Symposium Series</i> , 2001, , 58-79.	0.5	17
124	Textural fingerprints: A comprehensive descriptor for biofilm structure development. <i>Biotechnology and Bioengineering</i> , 2008, 100, 889-901.	3.3	17
125	Effects of the antimicrobial tylosin on the microbial community structure of an anaerobic sequencing batch reactor. <i>Biotechnology and Bioengineering</i> , 2011, 108, 296-305.	3.3	17
126	Robust planning of sanitation services in urban informal settlements: An analytical framework. <i>Water Research</i> , 2017, 110, 297-312.	11.3	16

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127	Backwash intensity and frequency impact the microbial community structure and function in a fixed-bed biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 815-827.	3.6	15
128	Making Waves: Why water reuse frameworks need to co-evolve with emerging small-scale technologies. <i>Water Research X</i> , 2021, 11, 100094.	6.1	15
129	Modeling of enhanced biological phosphorus removal in a sequencing batch biofilm reactor. <i>Water Science and Technology</i> , 1998, 37, 583.	2.5	14
130	Modeling of enhanced biological phosphorus removal in a sequencing batch biofilm reactor. <i>Water Science and Technology</i> , 1998, 37, 583-587.	2.5	14
131	Introduction to the IWA Task Group on Biofilm Modeling. <i>Water Science and Technology</i> , 2004, 49, 131-136.	2.5	14
132	Practical implementation of true on-site water recycling systems for hand washing and toilet flushing. <i>Water Research X</i> , 2020, 7, 100051.	6.1	14
133	The value of human data annotation for machine learning based anomaly detection in environmental systems. <i>Water Research</i> , 2021, 206, 117695.	11.3	14
134	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. <i>Waste Management</i> , 2020, 101, 150-160.	7.4	13
135	Competitive co-adsorption of bacteriophage MS2 and natural organic matter onto multiwalled carbon nanotubes. <i>Water Research X</i> , 2020, 9, 100058.	6.1	13
136	Modeling the water-energy nexus in households. <i>Energy and Buildings</i> , 2020, 225, 110262.	6.7	13
137	Socio-technical analysis of a sanitation innovation in a peri-urban household in Durban, South Africa. <i>Science of the Total Environment</i> , 2021, 755, 143284.	8.0	13
138	Predictive models using "cheap and easy" field measurements: Can they fill a gap in planning, monitoring, and implementing fecal sludge management solutions?. <i>Water Research</i> , 2021, 196, 116997.	11.3	13
139	Robustness of mainstream anammox activity at bench and pilot scale. <i>Science of the Total Environment</i> , 2021, 796, 148920.	8.0	13
140	Stagnation leads to short-term fluctuations in the effluent water quality of biofilters: A problem for greywater reuse?. <i>Water Research X</i> , 2021, 13, 100120.	6.1	12
141	Tracing N2O formation in full-scale wastewater treatment with natural abundance isotopes indicates control by organic substrate and process settings. <i>Water Research X</i> , 2022, 15, 100130.	6.1	12
142	Oligonucleotide probe hybridization and modeling results suggest that populations consuming readily degradable substrate have high cellular RNA levels. <i>Water Science and Technology</i> , 2002, 45, 115-126.	2.5	11
143	Low maintenance gravity-driven membrane filtration using hollow fibers: Effect of reducing space for biofilm growth and control strategies on permeate flux. <i>Science of the Total Environment</i> , 2022, 811, 152307.	8.0	11
144	Optimization of Enhanced Biological Phosphorus Removal after Periods of Low Loading. <i>Water Environment Research</i> , 2005, 77, 117-127.	2.7	10

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145	Effects of initial molecular weight on removal rate of dextran in biofilms. <i>Water Research</i> , 2006, 40, 1795-1804.	11.3	10
146	Bacterial growth in batch-operated membrane filtration systems for drinking water treatment. <i>Separation and Purification Technology</i> , 2015, 156, 165-174.	7.9	10
147	Biofilm carrier migration model describes reactor performance. <i>Water Science and Technology</i> , 2017, 75, 2818-2828.	2.5	10
148	Combustion of Sewage Sludge: Kinetics and Speciation of the Combustible. <i>Energy & Fuels</i> , 2018, 32, 10656-10667.	5.1	10
149	Particulate substrate retention in plug-flow and fully-mixed conditions during operation of aerobic granular sludge systems. <i>Water Research X</i> , 2020, 9, 100075.	6.1	10
150	Biological activated carbon filter for greywater post-treatment: Long-term TOC removal with adsorption and biodegradation. <i>Water Research X</i> , 2021, 13, 100113.	6.1	10
151	Biofilm monitoring on rotating discs by image analysis. <i>Biotechnology and Bioengineering</i> , 2009, 103, 105-116.	3.3	9
152	On-site treatment of used wash-water using biologically activated membrane bioreactors operated at different solids retention times. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2015, 5, 544-552.	1.8	9
153	Stabilizing control of a urine nitrification process in the presence of sensor drift. <i>Water Research</i> , 2019, 165, 114958.	11.3	9
154	Linking transformations of organic carbon to post-treatment performance in a biological water recycling system. <i>Science of the Total Environment</i> , 2020, 721, 137489.	8.0	9
155	A mesoscale model for hydrodynamics in biofilms that takes microscopic flow effects into account. <i>Water Science and Technology</i> , 2005, 52, 167-172.	2.5	9
156	Cross flow frequency determines the physical structure and cohesion of membrane biofilms developed during gravity-driven membrane ultrafiltration of river water: Implication for hydraulic resistance. <i>Journal of Membrane Science</i> , 2022, 643, 120079.	8.2	9
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