

Harald

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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.

157
papers

7,321
citations

44
h-index

80
g-index

162
ext. papers

8,337
ext. citations

6.5
avg, IF

6.21
L-index

#	Paper	IF	Citations
157	Full-scale partial nitrification/anammox experiences--an application survey. <i>Water Research</i> , 2014 , 55, 292-303	10.3	1034
156	Low temperature partial nitrification/anammox in a moving bed biofilm reactor treating low strength wastewater. <i>Environmental Science & Technology</i> , 2014 , 48, 8784-92	10.3	257
155	Anaerobic submerged membrane bioreactor (AnSMBR) for municipal wastewater treatment under mesophilic and psychrophilic temperature conditions. <i>Bioresource Technology</i> , 2011 , 102, 10377-85	11	188
154	Aerobic biodegradation of the sulfonamide antibiotic sulfamethoxazole by activated sludge applied as co-substrate and sole carbon and nitrogen source. <i>Chemosphere</i> , 2013 , 92, 969-78	8.4	185
153	Comparing different reactor configurations for Partial Nitrification/Anammox at low temperatures. <i>Water Research</i> , 2015 , 81, 92-100	12.5	173
152	Volumetric measurements of bacterial cells and extracellular polymeric substance glycoconjugates in biofilms. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 585-92	4.9	166
151	Determination of microplastic polyethylene (PE) and polypropylene (PP) in environmental samples using thermal analysis (TGA-DSC). <i>Science of the Total Environment</i> , 2016 , 568, 507-511	10.2	161
150	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): investigations on EPS-Matrix. <i>Water Research</i> , 2009 , 43, 63-76	12.5	161
149	Simulation of growth and detachment in biofilm systems under defined hydrodynamic conditions. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 607-17	4.9	159
148	Opportunities in rainwater harvesting. <i>Desalination</i> , 2009 , 248, 118-124	10.3	155
147	Heavy metal removal in anaerobic semi-continuous stirred tank reactors by a consortium of sulfate-reducing bacteria. <i>Water Research</i> , 2011 , 45, 3863-70	12.5	144
146	Modelling the energy balance of an anaerobic digester fed with cattle manure and renewable energy crops. <i>Water Research</i> , 2007 , 41, 4085-96	12.5	141
145	Runoff pollutants of a highly trafficked urban road--correlation analysis and seasonal influences. <i>Chemosphere</i> , 2010 , 80, 991-7	8.4	135
144	Influence of growth conditions on biofilm development and mass transfer at the bulk/biofilm interface. <i>Water Research</i> , 2002 , 36, 4775-84	12.5	127
143	Biogas from grass silage - Measurements and modeling with ADM1. <i>Bioresource Technology</i> , 2010 , 101, 8158-65	11	124
142	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 197-206	4.4	122
141	Response of different nitrospira species to anoxic periods depends on operational do. <i>Environmental Science & Technology</i> , 2014 , 48, 2934-41	10.3	107

140	Antibacterial activity of sulfamethoxazole transformation products (TPs): general relevance for sulfonamide TPs modified at the para position. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1821-8	4	107
139	Measuring local flow velocities and biofilm structure in biofilm systems with magnetic resonance imaging (MRI). <i>Biotechnology and Bioengineering</i> , 2003 , 84, 424-32	4.9	98
138	Investigation of the mesoscale structure and volumetric features of biofilms using optical coherence tomography. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 844-53	4.9	95
137	Influence of growth history on sloughing and erosion from biofilms. <i>Water Research</i> , 2004 , 38, 3671-84	12.5	95
136	Structure and shear strength of microbial biofilms as determined with confocal laser scanning microscopy and fluid dynamic gauging using a novel rotating disc biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 747-55	4.9	89
135	Mono fermentation of grass silage by means of loop reactors. <i>Bioresource Technology</i> , 2009 , 100, 5934-40	10.1	87
134	Formation of genotoxic quinones during bisphenol A degradation by TiO ₂ photocatalysis and UV photolysis: A comparative study. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 106-114	21.8	80
133	Simultaneous nitrification/denitrification in a biofilm airlift suspension (BAS) reactor with biodegradable carrier material. <i>Water Research</i> , 2009 , 43, 4461-8	12.5	80
132	In situ surface-enhanced Raman scattering analysis of biofilm. <i>Analytical Chemistry</i> , 2008 , 80, 8538-44	7.8	79
131	Optical coherence tomography in biofilm research: A comprehensive review. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1386-1402	4.9	77
130	Label-free in situ SERS imaging of biofilms. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10184-94	3.4	75
129	Oxygen profiles and biomass distribution in biopellets of <i>Aspergillus niger</i> . <i>Biotechnology and Bioengineering</i> , 2005 , 92, 614-23	4.9	72
128	Monofermentation of grass silage under mesophilic conditions: measurements and mathematical modeling with ADM 1. <i>Bioresource Technology</i> , 2009 , 100, 1675-81	11	61
127	Optical coherence tomography for the in situ three-dimensional visualization and quantification of feed spacer channel fouling in reverse osmosis membrane modules. <i>Journal of Membrane Science</i> , 2016 , 498, 345-352	9.6	59
126	Transport of oxygen, sodium chloride, and sodium nitrate in biofilms. <i>Chemical Engineering Science</i> , 2006 , 61, 1347-1356	4.4	59
125	Time-resolved biofilm deformation measurements using optical coherence tomography. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1893-905	4.9	58
124	Growth and decay in an auto-/heterotrophic biofilm. <i>Water Research</i> , 1997 , 31, 2243-2252	12.5	58
123	Characterization of pure cultures isolated from sulfamethoxazole-acclimated activated sludge with respect to taxonomic identification and sulfamethoxazole biodegradation potential. <i>BMC Microbiology</i> , 2013 , 13, 276	4.5	56

122	Mass transfer enhancement in moving biofilm structures. <i>Biophysical Journal</i> , 2012 , 102, 1483-92	2.9	55
121	Evaluating operation strategies and process stability of a single stage nitritation-anammox SBR by use of the oxidation-reduction potential (ORP). <i>Bioresource Technology</i> , 2012 , 107, 70-7	11	52
120	3D finite element model of biofilm detachment using real biofilm structures from CLSM data. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 177-86	4.9	51
119	Selection of reference genes for normalisation of specific gene quantification data of <i>Aspergillus niger</i> . <i>Journal of Biotechnology</i> , 2007 , 132, 353-8	3.7	50
118	Nitritation performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. <i>Water Research</i> , 2010 , 44, 6073-84	12.5	48
117	Computational study of the drag and oscillatory movement of biofilm streamers in fast flows. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 600-10	4.9	48
116	Modelling the structure and function of extracellular polymeric substances in biofilms with new numerical techniques. <i>Water Science and Technology</i> , 2001 , 43, 121-127	2.2	46
115	Phototransformation of sulfamethoxazole under simulated sunlight: Transformation products and their antibacterial activity toward <i>Vibrio fischeri</i> . <i>Science of the Total Environment</i> , 2015 , 538, 58-63	10.2	45
114	Interaction between biofilm development, structure and detachment in rotating annular reactors. <i>Bioprocess and Biosystems Engineering</i> , 2008 , 31, 619-29	3.7	44
113	Effective diffusivities and mass fluxes in fungal biopellets. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1202-13	4.9	40
112	Systematic suspect screening and identification of sulfonamide antibiotic transformation products in the aquatic environment. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5707-17	4.4	39
111	Swinging ORP's operation strategy for stable reject water treatment by nitritation-anammox in sequencing batch reactors. <i>Chemical Engineering Journal</i> , 2012 , 180, 190-196	14.7	39
110	Anaerobic submerged membrane bioreactor (AnSMBR) treating low-strength wastewater under psychrophilic temperature conditions. <i>Process Biochemistry</i> , 2012 , 47, 792-798	4.8	38
109	Slow sand filtration of secondary clarifier effluent for wastewater reuse. <i>Environmental Science & Technology</i> , 2009 , 43, 5896-901	10.3	38
108	Raman microscopy and surface-enhanced Raman scattering (SERS) for in situ analysis of biofilms. <i>Journal of Biophotonics</i> , 2010 , 3, 548-56	3.1	38
107	Modeling of biofilm systems: a review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014 , 146, 53-76	1.7	37
106	Impact of the particulate matter from wastewater discharge on the abundance of antibiotic resistance genes and facultative pathogenic bacteria in downstream river sediments. <i>Science of the Total Environment</i> , 2019 , 649, 1171-1178	10.2	37
105	The biocidal effect of a novel synthesized gemini surfactant on environmental sulfidogenic bacteria: planktonic cells and biofilms. <i>Materials Science and Engineering C</i> , 2015 , 47, 367-75	8.3	36

104	Roles of water and dissolved oxygen in photocatalytic generation of free OH radicals in aqueous TiO ₂ suspensions: An isotope labeling study. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 424-430	21.8	36
103	Cationic Gemini Surfactant as a Corrosion Inhibitor and a Biocide for High Salinity Sulfidogenic Bacteria Originating from an Oil-Field Water Tank. <i>Journal of Surfactants and Detergents</i> , 2014 , 17, 419-431	1.9	36
102	Substrate utilization and mass transfer in an autotrophic biofilm system: Experimental results and numerical simulation. <i>Biotechnology and Bioengineering</i> , 1997 , 53, 363-71	4.9	36
101	Comparing the performance and operation stability of an SBR and MBBR for single-stage nitrification-anammox treating wastewater with high organic load. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 1319-28	2.6	35
100	The impact of sunlight on inactivation of indicator microorganisms both in river water and benthic biofilms. <i>Water Research</i> , 2008 , 42, 4771-9	12.5	35
99	Application of portable online LED UV fluorescence sensor to predict the degradation of dissolved organic matter and trace organic contaminants during ozonation. <i>Water Research</i> , 2016 , 101, 262-271	12.5	34
98	Effects of Fe(II) and Fe(III) on the single-stage deammonification process treating high-strength reject water from sludge dewatering. <i>Bioresource Technology</i> , 2012 , 114, 12-9	11	34
97	Influence of the granulation grade on the concentration of suspended solids in the effluent of a pilot scale sequencing batch reactor operated with aerobic granular sludge. <i>Separation and Purification Technology</i> , 2015 , 142, 234-241	8.3	34
96	Influence of seasonal temperature fluctuations on two different partial nitrification-anammox reactors treating mainstream municipal wastewater. <i>Water Science and Technology</i> , 2015 , 72, 1358-63	2.2	33
95	Time focused measurements of roof runoff quality. <i>Corrosion Science</i> , 2008 , 50, 384-391	6.8	33
94	Determination of mechanical properties of biofilms by modelling the deformation measured using optical coherence tomography. <i>Water Research</i> , 2018 , 145, 588-598	12.5	32
93	Aerobic sludge granulation in a full-scale sequencing batch reactor. <i>BioMed Research International</i> , 2014 , 2014, 268789	3	31
92	Online assessment of biofilm development, sloughing and forced detachment in tube reactor by means of magnetic resonance microscopy. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 172-81	4.9	30
91	Parameter estimation and long-term process simulation of a biogas reactor operated under trace elements limitation. <i>Applied Energy</i> , 2015 , 142, 352-360	10.7	29
90	Influence of Particle Association and Suspended Solids on UV Inactivation of Fecal Indicator Bacteria in an Urban River. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	29
89	Investigation of biofilm structure, flow patterns and detachment with magnetic resonance imaging. <i>Water Science and Technology</i> , 2005 , 52, 1-6	2.2	29
88	Lab scale experiments using a submerged MBR under thermophilic aerobic conditions for the treatment of paper mill deinking wastewater. <i>Bioresource Technology</i> , 2012 , 122, 11-6	11	28
87	Comparison of two different anaerobic feeding strategies to establish a stable aerobic granulated sludge bed. <i>Water Research</i> , 2013 , 47, 6423-31	12.5	27

86	Xenobiotic benzotriazoles--biodegradation under meso- and oligotrophic conditions as well as denitrifying, sulfate-reducing, and anaerobic conditions. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 2795-804	5.1	26
85	Sloughing and limited substrate conditions trigger filamentous growth in heterotrophic biofilms. Measurements in flow-through tube reactor. <i>Chemical Engineering Science</i> , 2009 , 64, 2723-2732	4.4	26
84	Behaviour of biofilm systems under varying hydrodynamic conditions. <i>Water Science and Technology</i> , 2004 , 49, 345-351	2.2	26
83	Mass transfer phenomena in biofilm systems. <i>Water Science and Technology</i> , 2000 , 41, 357-360	2.2	26
82	Investigating biofilm structure developing on carriers from lab-scale moving bed biofilm reactors based on light microscopy and optical coherence tomography. <i>Bioresource Technology</i> , 2016 , 200, 128-36 ¹¹		25
81	Influence of resuspension on the fate of fecal indicator bacteria in large-scale flumes mimicking an oligotrophic river. <i>Water Research</i> , 2014 , 48, 466-77	12.5	25
80	Aerobic granules dwelling vorticella and rotifers in an SBR fed with domestic wastewater. <i>Separation and Purification Technology</i> , 2013 , 110, 127-131	8.3	25
79	A field study on the first flush effect of copper roof runoff. <i>Corrosion Science</i> , 2010 , 52, 21-29	6.8	25
78	Model-based prediction of substrate conversion and protein synthesis and excretion in recombinant <i>Aspergillus niger</i> biopellets. <i>Chemical Engineering Science</i> , 2005 , 60, 2729-2739	4.4	25
77	Assessing the influence of biofilm surface roughness on mass transfer by combining optical coherence tomography and two-dimensional modeling. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 989-1000	4.9	24
76	Start-up of a full-scale deammonification SBR-treating effluent from digested sludge dewatering. <i>Water Science and Technology</i> , 2015 , 71, 553-9	2.2	22
75	Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. <i>Dalton Transactions</i> , 2015 , 44, 5032-40	4.3	22
74	Modeling of slow sand filtration for disinfection of secondary clarifier effluent. <i>Water Research</i> , 2010 , 44, 159-66	12.5	22
73	Investigations and mathematical simulation on decentralized anaerobic treatment of agricultural substrate from livestock farming. <i>Water Science and Technology</i> , 2008 , 58, 67-72	2.2	22
72	Determining the flow regime in a biofilm carrier by means of magnetic resonance imaging. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1023-32	4.9	21
71	In-situ monitoring and quantification of fouling development in membrane distillation by means of optical coherence tomography. <i>Journal of Membrane Science</i> , 2019 , 577, 145-152	9.6	20
70	Occurrence and simulation of trihalomethanes in swimming pool water: A simple prediction method based on DOC and mass balance. <i>Water Research</i> , 2016 , 88, 634-642	12.5	20
69	Microbial activity of suspended biomass from a nitrification-anammox SBR in dependence of operational condition and size fraction. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8795-804	5.7	20

68	Achieving nitrite accumulation in a continuous system treating low-strength domestic wastewater: switchover from batch start-up to continuous operation with process control. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 517-26	5.7	20
67	Experimental results and mathematical modelling of an autotrophic and heterotrophic biofilm in a sand filter treating landfill leachate and municipal wastewater. <i>Water Research</i> , 2008 , 42, 3899-909	12.5	19
66	Comparison of some characteristics of aerobic granules and sludge flocs from sequencing batch reactors. <i>Water Science and Technology</i> , 2007 , 55, 403-11	2.2	19
65	Changes in the characteristics of dissolved organic matter during sludge treatment: A critical review. <i>Water Research</i> , 2020 , 187, 116441	12.5	19
64	Confocal laser scanning microscopy as a tool to validate the efficiency of membrane cleaning procedures to remove biofilms. <i>Separation and Purification Technology</i> , 2014 , 122, 402-411	8.3	18
63	Pilot-scale anaerobic submerged membrane bioreactor (AnSMBR) treating municipal wastewater: the fouling phenomenon and long-term operation. <i>Water Science and Technology</i> , 2011 , 64, 1804-11	2.2	18
62	Evaluation of two methods for quantification of hsp70 mRNA from the waterborne pathogen <i>Cryptosporidium parvum</i> by reverse transcription real-time PCR in environmental samples. <i>Water Research</i> , 2009 , 43, 2669-78	12.5	18
61	Combined application of ¹³ C NMR spectroscopy and confocal laser scanning microscopy investigation on biofilm structure and physico-chemical properties. <i>Chemical Engineering Science</i> , 2010 , 65, 4691-4700	4.4	18
60	Short and long term biosorption of silica-coated iron oxide nanoparticles in heterotrophic biofilms. <i>Science of the Total Environment</i> , 2016 , 544, 722-9	10.2	17
59	Growth, structure and oxygen penetration in particle supported autotrophic biofilms. <i>Water Science and Technology</i> , 2004 , 49, 371-377	2.2	17
58	Water quality and daily temperature cycle affect biofilm formation in drip irrigation devices revealed by optical coherence tomography. <i>Biofouling</i> , 2017 , 33, 211-221	3.3	16
57	Application of two component biodegradable carriers in a particle-fixed biofilm airlift suspension reactor: development and structure of biofilms. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 31-9	3.7	16
56	On-site infiltration of a copper roof runoff: role of clinoptilolite as an artificial barrier material. <i>Water Research</i> , 2007 , 41, 3251-8	12.5	16
55	Monitoring benzotriazoles: a 1 year study on concentrations and removal efficiencies in three different wastewater treatment plants. <i>Water Science and Technology</i> , 2014 , 69, 710-7	2.2	15
54	Effect of acclimation and nutrient supply on 5-tolyltriazole biodegradation with activated sludge communities. <i>Bioresource Technology</i> , 2014 , 163, 381-5	11	15
53	Morphology of filamentous fungi: linking cellular biology to process engineering using <i>Aspergillus niger</i> . <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 121, 1-21	1.7	15
52	From an extremophilic community to an electroautotrophic production strain: identifying a novel Knallgas bacterium as cathodic biofilm biocatalyst. <i>ISME Journal</i> , 2020 , 14, 1125-1140	11.9	15
51	ADM1 modeling of UASB treating domestic wastewater in Nepal. <i>Renewable Energy</i> , 2016 , 95, 263-268	8.1	15

50	Sulfidogenic-corrosion inhibitory effect of cationic monomeric and gemini surfactants: planktonic and sessile diversity. <i>RSC Advances</i> , 2016 , 6, 42263-42278	3.7	14
49	Magnetic resonance imaging reveals detailed spatial and temporal distribution of iron-based nanoparticles transported through water-saturated porous media. <i>Journal of Contaminant Hydrology</i> , 2015 , 182, 51-62	3.9	13
48	Optimizing sequencing batch reactor (SBR) reactor operation for treatment of dairy wastewater with aerobic granular sludge. <i>Water Science and Technology</i> , 2008 , 58, 1199-206	2.2	13
47	Mass transfer coefficients for an autotrophic and a heterotrophic biofilm system. <i>Water Science and Technology</i> , 1995 , 32, 199	2.2	13
46	Biodegradation of phenol, salicylic acid, benzenesulfonic acid, and iomeprol by <i>Pseudomonas fluorescens</i> in the capillary fringe. <i>Journal of Contaminant Hydrology</i> , 2015 , 183, 40-54	3.9	12
45	Oxygen transport within the biofilm matrix of a membrane biofilm reactor treating gaseous toluene. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 751-757	3.5	12
44	Analysis of design approaches for stabilization ponds under different boundary conditions: a comparison. <i>Ecological Engineering</i> , 2009 , 35, 1117-1128	3.9	12
43	Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. <i>Acta Biomaterialia</i> , 2016 , 31, 167-177	10.8	11
42	Modelling waste stabilisation ponds with an extended version of ASM3. <i>Water Science and Technology</i> , 2010 , 61, 713-20	2.2	11
41	Investigation and Modeling of Growth, Structure and Oxygen Penetration in Particle Supported Biofilms. <i>Chemical Engineering and Technology</i> , 2003 , 26, 219-222	2	11
40	Persistence of fecal indicator bacteria in sediment of an oligotrophic river: comparing large and lab-scale flume systems. <i>Water Research</i> , 2014 , 61, 276-87	12.5	10
39	Low biosorption of PVA coated engineered magnetic nanoparticles in granular sludge assessed by magnetic susceptibility. <i>Science of the Total Environment</i> , 2015 , 537, 43-50	10.2	10
38	Dependence of the initial adhesion of biofilm forming <i>Pseudomonas putida</i> mt2 on physico-chemical material properties. <i>Biofouling</i> , 2012 , 28, 315-27	3.3	10
37	Development of an empirical mathematical model for describing and optimizing the hygiene potential of a thermophilic anaerobic bioreactor treating faeces. <i>Water Science and Technology</i> , 2007 , 55, 95-102	2.2	10
36	Thermophilic anaerobic digestion in compact systems: investigations by modern microbiological techniques and mathematical simulation. <i>Water Science and Technology</i> , 2007 , 56, 19-28	2.2	10
35	Dynamics of a nitrifying bacteria population in a biofilm controlled by an oxygen microelectrode. <i>Water Science and Technology</i> , 1994 , 29, 69-76	2.2	10
34	Einfluss der Morphologie auf Stofftransport und -umsatz in <i>Aspergillus niger</i> -Pellets. <i>Chemie-Ingenieur-Technik</i> , 2006 , 78, 627-632	0.8	9
33	Transport and retention of artificial and real wastewater particles inside a bed of settled aerobic granular sludge assessed applying magnetic resonance imaging. <i>Water Research X</i> , 2020 , 7, 100050	8.1	8

32	A systematic insight into a single-stage deammonification process operated in granular sludge reactor with high-loaded reject-water: characterization and quantification of microbiological community. <i>Journal of Applied Microbiology</i> , 2013 , 114, 339-51	4.7	8
31	Simulation of tertiary denitrification with methanol in an upflow biofilter. <i>Water Science and Technology</i> , 2000 , 41, 185-190	2.2	8
30	Decay of elevated antibiotic resistance genes in natural river sediments after sedimentation of wastewater particles. <i>Science of the Total Environment</i> , 2020 , 705, 135861	10.2	6
29	Hydrolysis of particulate organic matter from municipal wastewater under aerobic treatment. <i>Chemosphere</i> , 2021 , 263, 128329	8.4	6
28	Optimization of sulfide production by an indigenous consortium of sulfate-reducing bacteria for the treatment of lead-contaminated wastewater. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 2003-17	3.7	5
27	Quantification of particulate matter attached to the bulk-biofilm interface and its influence on local mass transfer. <i>Separation and Purification Technology</i> , 2018 , 197, 86-94	8.3	5
26	RIONET: a water quality management tool for river basins. <i>Water Science and Technology</i> , 2003 , 48, 47-53	5.2	5
25	Operation conditions affecting scale formation in membrane distillation - An in situ scale study based on optical coherence tomography. <i>Journal of Membrane Science</i> , 2021 , 623, 118989	9.6	5
24	Modelling the influence of total suspended solids on E. coli removal in river water. <i>Water Science and Technology</i> , 2016 , 73, 1320-32	2.2	5
23	Quantifying Concentration Polarization - Raman Microspectroscopy for In-Situ Measurement in a Flat Sheet Cross-flow Nanofiltration Membrane Unit. <i>Scientific Reports</i> , 2019 , 9, 15885	4.9	5
22	A membrane biofilm reactor for hydrogenotrophic methanation. <i>Bioresource Technology</i> , 2021 , 321, 124444	4.4	5
21	Assessment of the viability of <i>Cryptosporidium parvum</i> oocysts with the induction ratio of hsp70 mRNA production in manure. <i>Journal of Microbiological Methods</i> , 2013 , 94, 280-9	2.8	4
20	Estimating the trend of micropollutants in lakes as decision-making support in IWRM: a case study in Lake Paranoá, Brazil. <i>Environmental Earth Sciences</i> , 2014 , 72, 4891-4900	2.9	4
19	The effect of heavy metals on microbial community structure of a sulfidogenic consortium in anaerobic semi-continuous stirred tank reactors. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 451-60	3.7	4
18	Industrieabwasserbehandlung und -recycling [Potenziale und Perspektiven]. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 1005-1017	0.8	4
17	Modeling mass transfer and substrate utilization in the boundary layer of biofilm systems. <i>Water Science and Technology</i> , 1998 , 37, 139	2.2	4
16	Quantification of product-specific gene expression in biopellets of <i>Aspergillus niger</i> with real-time PCR. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 653-660	3.8	4
15	Treatment of thermophilic hydrolysis reactor effluent with ceramic microfiltration membranes. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1561-1571	3.7	3

14	Scheinbare Sekretionsverzögerung durch Produktadsorption bei <i>Aspergillus niger</i> . <i>Chemie-Ingenieur-Technik</i> , 2006 , 78, 285-288	0.8	3
13	Apparent Delay of Product Secretion by Product Adsorption in <i>Aspergillus niger</i> . <i>Engineering in Life Sciences</i> , 2006 , 6, 488-491	3.4	3
12	Size and stability of suspended aggregates in municipal effluents containing montmorillonite, bacteria and fulvic acid. <i>Irrigation Science</i> , 2018 , 36, 203-216	3.1	2
11	Comment on "Thermo activated persulfate oxidation of antibiotic sulfamethoxazole and structurally related compounds" by Yuefei Ji et'al. [Water Res. 87 (2015) 1-9]. <i>Water Research</i> , 2016 , 95, 394	12.5	2
10	Effects of biofilm geometry on deammonification biofilm performance: a simulation study. <i>Bioresource Technology</i> , 2012 , 116, 252-8	11	2
9	Simulationsrechnungen zur Beschreibung von Biofilmsystemen. <i>Chemie-Ingenieur-Technik</i> , 2000 , 72, 1234-1237	4.8	2
8	Quantification of Evaporation and Drainage Processes in Unsaturated Porous Media Using Magnetic Resonance Imaging. <i>Water Resources Research</i> , 2020 , 56, e2019WR026658	5.4	1
7	Planted soil filters with activated pretreatment for compost-plant wastewater treatment. <i>Ecohydrology and Hydrobiology</i> , 2007 , 7, 215-221	2.8	1
6	Wastewater treatment with activated pre-clarifier and planted soil filters. <i>Water Science and Technology</i> , 2007 , 55, 195-202	2.2	1
5	Impact of Livestock Farming on Nitrogen Pollution and the Corresponding Energy Demand for Zero Liquid Discharge. <i>Water (Switzerland)</i> , 2022 , 14, 1278	3	1
4	2D simulation of transport and degradation in the River Rhine. <i>Water Science and Technology</i> , 2002 , 46, 99-104	2.2	0
3	Enrichment of phosphate-accumulating organisms (PAOs) in a microfluidic model biofilm system by mimicking a typical aerobic granular sludge feast/famine regime.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1313	5.7	0
2	Simulation von Wachstum und Abtrag von Biomasse Eine exemplarische Betrachtung Eine 2D-Modellierung. <i>Chemie-Ingenieur-Technik</i> , 2005 , 77, 418-424	0.8	
1	2D Simulation von Stofftransport und -umsatz im Rhein. <i>Chemie-Ingenieur-Technik</i> , 2001 , 73, 232-237	0.8	