Harald

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.

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	Enrichment of phosphate-accumulating organisms (PAOs) in a microfluidic model biofilm system by mimicking a typical aerobic granular sludge feast/famine regime.. *Applied Microbiology and Biotechnology*, **2022**, 106, 1313	5.7	0
156	Impact of Livestock Farming on Nitrogen Pollution and the Corresponding Energy Demand for Zero Liquid Discharge. *Water (Switzerland)*, **2022**, 14, 1278	3	1
155	Operation conditions affecting scale formation in membrane distillation - An in situ scale study based on optical coherence tomography. *Journal of Membrane Science*, **2021**, 623, 118989	9.6	5
154	Hydrolysis of particulate organic matter from municipal wastewater under aerobic treatment. *Chemosphere*, **2021**, 263, 128329	8.4	6
153	A membrane biofilm reactor for hydrogenotrophic methanation. *Bioresource Technology*, **2021**, 321, 124444	11	5
152	Transport and retention of artificial and real wastewater particles inside a bed of settled aerobic granular sludge assessed applying magnetic resonance imaging. *Water Research X*, **2020**, 7, 100050	8.1	8
151	Quantification of Evaporation and Drainage Processes in Unsaturated Porous Media Using Magnetic Resonance Imaging. *Water Resources Research*, **2020**, 56, e2019WR026658	5.4	1
150	From an extremophilic community to an electroautotrophic production strain: identifying a novel Knallgas bacterium as cathodic biofilm biocatalyst. *ISME Journal*, **2020**, 14, 1125-1140	11.9	15
149	Decay of elevated antibiotic resistance genes in natural river sediments after sedimentation of wastewater particles. *Science of the Total Environment*, **2020**, 705, 135861	10.2	6
148	Changes in the characteristics of dissolved organic matter during sludge treatment: A critical review. *Water Research*, **2020**, 187, 116441	12.5	19
147	In-situ monitoring and quantification of fouling development in membrane distillation by means of optical coherence tomography. *Journal of Membrane Science*, **2019**, 577, 145-152	9.6	20
146	Quantifying Concentration Polarization - Raman Microspectroscopy for In-Situ Measurement in a Flat Sheet Cross-flow Nanofiltration Membrane Unit. *Scientific Reports*, **2019**, 9, 15885	4.9	5
145	Impact of the particulate matter from wastewater discharge on the abundance of antibiotic resistance genes and facultative pathogenic bacteria in downstream river sediments. *Science of the Total Environment*, **2019**, 649, 1171-1178	10.2	37
144	Size and stability of suspended aggregates in municipal effluents containing montmorillonite, bacteria and fulvic acid. *Irrigation Science*, **2018**, 36, 203-216	3.1	2
143	Quantification of particulate matter attached to the bulk-biofilm interface and its influence on local mass transfer. *Separation and Purification Technology*, **2018**, 197, 86-94	8.3	5
142	Treatment of thermophilic hydrolysis reactor effluent with ceramic microfiltration membranes. *Bioprocess and Biosystems Engineering*, **2018**, 41, 1561-1571	3.7	3
141	Determination of mechanical properties of biofilms by modelling the deformation measured using optical coherence tomography. *Water Research*, **2018**, 145, 588-598	12.5	32

140	Water quality and daily temperature cycle affect biofilm formation in drip irrigation devices revealed by optical coherence tomography. *Biofouling*, **2017**, 33, 211-221	3.3	16
139	Optical coherence tomography in biofilm research: A comprehensive review. *Biotechnology and Bioengineering*, **2017**, 114, 1386-1402	4.9	77
138	Optical coherence tomography for the in situ three-dimensional visualization and quantification of feed spacer channel fouling in reverse osmosis membrane modules. *Journal of Membrane Science*, **2016**, 498, 345-352	9.6	59
137	Investigating biofilm structure developing on carriers from lab-scale moving bed biofilm reactors based on light microscopy and optical coherence tomography. *Bioresource Technology*, **2016**, 200, 128-36	11	25
136	Application of portable online LED UV fluorescence sensor to predict the degradation of dissolved organic matter and trace organic contaminants during ozonation. *Water Research*, **2016**, 101, 262-271	12.5	34
135	Determination of microplastic polyethylene (PE) and polypropylene (PP) in environmental samples using thermal analysis (TGA-DSC). *Science of the Total Environment*, **2016**, 568, 507-511	10.2	161
134	Assessing the influence of biofilm surface roughness on mass transfer by combining optical coherence tomography and two-dimensional modeling. *Biotechnology and Bioengineering*, **2016**, 113, 989-1000	4.9	24
133	Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. *Acta Biomaterialia*, **2016**, 31, 167-177	10.8	11
132	Short and long term biosorption of silica-coated iron oxide nanoparticles in heterotrophic biofilms. *Science of the Total Environment*, **2016**, 544, 722-9	10.2	17
131	Occurrence and simulation of trihalomethanes in swimming pool water: A simple prediction method based on DOC and mass balance. *Water Research*, **2016**, 88, 634-642	12.5	20
130	Comment on "Thermo activated persulfate oxidation of antibiotic sulfamethoxazole and structurally related compounds" by Yuefei Ji et´al. [Water Res. 87 (2015) 1-9]. *Water Research*, **2016**, 95, 394	12.5	2
129	Roles of water and dissolved oxygen in photocatalytic generation of free OH radicals in aqueous TiO 2 suspensions: An isotope labeling study. *Applied Catalysis B: Environmental*, **2016**, 182, 424-430	21.8	36
128	Modelling the influence of total suspended solids on E. coli removal in river water. *Water Science and Technology*, **2016**, 73, 1320-32	2.2	5
127	Sulfidogenic-corrosion inhibitory effect of cationic monomeric and gemini surfactants: planktonic and sessile diversity. *RSC Advances*, **2016**, 6, 42263-42278	3.7	14
126	ADM1 modeling of UASB treating domestic wastewater in Nepal. *Renewable Energy*, **2016**, 95, 263-268	8.1	15
125	Systematic suspect screening and identification of sulfonamide antibiotic transformation products in the aquatic environment. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 5707-17	4.4	39
124	Start-up of a full-scale deammonification SBR-treating effluent from digested sludge dewatering. *Water Science and Technology*, **2015**, 71, 553-9	2.2	22
123	Determining the flow regime in a biofilm carrier by means of magnetic resonance imaging. *Biotechnology and Bioengineering*, **2015**, 112, 1023-32	4.9	21

122	Parameter estimation and long-term process simulation of a biogas reactor operated under trace elements limitation. *Applied Energy*, **2015**, 142, 352-360	10.7	29
121	Comparing different reactor configurations for Partial Nitritation/Anammox at low temperatures. *Water Research*, **2015**, 81, 92-100	12.5	173
120	Biodegradation of phenol, salicylic acid, benzenesulfonic acid, and iomeprol by Pseudomonas fluorescens in the capillary fringe. *Journal of Contaminant Hydrology*, **2015**, 183, 40-54	3.9	12
119	Optimization of sulfide production by an indigenous consortium of sulfate-reducing bacteria for the treatment of lead-contaminated wastewater. *Bioprocess and Biosystems Engineering*, **2015**, 38, 2003-11	3.7	5
118	Phototransformation of sulfamethoxazole under simulated sunlight: Transformation products and their antibacterial activity toward Vibrio fischeri. *Science of the Total Environment*, **2015**, 538, 58-63	10.2	45
117	The biocidal effect of a novel synthesized gemini surfactant on environmental sulfidogenic bacteria: planktonic cells and biofilms. *Materials Science and Engineering C*, **2015**, 47, 367-75	8.3	36
116	Influence of seasonal temperature fluctuations on two different partial nitritation-anammox reactors treating mainstream municipal wastewater. *Water Science and Technology*, **2015**, 72, 1358-63	2.2	33
115	Time-resolved biofilm deformation measurements using optical coherence tomography. *Biotechnology and Bioengineering*, **2015**, 112, 1893-905	4.9	58
114	Magnetic resonance imaging reveals detailed spatial and temporal distribution of iron-based nanoparticles transported through water-saturated porous media. *Journal of Contaminant Hydrology*, **2015**, 182, 51-62	3.9	13
113	Low biosorption of PVA coated engineered magnetic nanoparticles in granular sludge assessed by magnetic susceptibility. *Science of the Total Environment*, **2015**, 537, 43-50	10.2	10
112	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. *Separation and Purification Technology*, **2015**, 142, 234-241	8.3	34
111	Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. *Dalton Transactions*, **2015**, 44, 5032-40	4.3	22
110	Xenobiotic benzotriazoles--biodegradation under meso- and oligotrophic conditions as well as denitrifying, sulfate-reducing, and anaerobic conditions. *Environmental Science and Pollution Research*, **2014**, 21, 2795-804	5.1	26
109	Modeling of biofilm systems: a review. *Advances in Biochemical Engineering/Biotechnology*, **2014**, 146, 53-76	1.7	37
108	Low temperature partial nitritation/anammox in a moving bed biofilm reactor treating low strength wastewater. *Environmental Science & Technology*, **2014**, 48, 8784-92	10.3	257
107	Response of different nitrospira species to anoxic periods depends on operational do. *Environmental Science & Technology*, **2014**, 48, 2934-41	10.3	107
106	Influence of resuspension on the fate of fecal indicator bacteria in large-scale flumes mimicking an oligotrophic river. *Water Research*, **2014**, 48, 466-77	12.5	25
105	Confocal laser scanning microscopy as a tool to validate the efficiency of membrane cleaning procedures to remove biofilms. *Separation and Purification Technology*, **2014**, 122, 402-411	8.3	18

104	Full-scale partial nitritation/anammox experiences--an application survey. *Water Research*, **2014**, 55, 292-303	12.5	1034
103	Persistence of fecal indicator bacteria in sediment of an oligotrophic river: comparing large and lab-scale flume systems. *Water Research*, **2014**, 61, 276-87	12.5	10
102	Monitoring benzotriazoles: a 1 year study on concentrations and removal efficiencies in three different wastewater treatment plants. *Water Science and Technology*, **2014**, 69, 710-7	2.2	15
101	Estimating the trend of micropollutants in lakes as decision-making support in IWRM: a case study in Lake Parano□Brazil. *Environmental Earth Sciences*, **2014**, 72, 4891-4900	2.9	4
100	Aerobic sludge granulation in a full-scale sequencing batch reactor. *BioMed Research International*, **2014**, 2014, 268789	3	31
99	Antibacterial activity of sulfamethoxazole transformation products (TPs): general relevance for sulfonamide TPs modified at the para position. *Chemical Research in Toxicology*, **2014**, 27, 1821-8	4	107
98	Formation of genotoxic quinones during bisphenol A degradation by TiO2 photocatalysis and UV photolysis: A comparative study. *Applied Catalysis B: Environmental*, **2014**, 160-161, 106-114	21.8	80
97	Effect of acclimation and nutrient supply on 5-tolyltriazole biodegradation with activated sludge communities. *Bioresource Technology*, **2014**, 163, 381-5	11	15
96	The effect of heavy metals on microbial community structure of a sulfidogenic consortium in anaerobic semi-continuous stirred tank reactors. *Bioprocess and Biosystems Engineering*, **2014**, 37, 451-60	3.7	4
95	Influence of Particle Association and Suspended Solids on UV Inactivation of Fecal Indicator Bacteria in an Urban River. *Water, Air, and Soil Pollution*, **2014**, 225, 1	2.6	29
94	Cationic Gemini Surfactant as a Corrosion Inhibitor and a Biocide for High Salinity Sulfidogenic Bacteria Originating from an Oil-Field Water Tank. *Journal of Surfactants and Detergents*, **2014**, 17, 419-431	1.9	36
93	Microbial activity of suspended biomass from a nitritation-anammox SBR in dependence of operational condition and size fraction. *Applied Microbiology and Biotechnology*, **2013**, 97, 8795-804	5.7	20
92	Aerobic biodegradation of the sulfonamide antibiotic sulfamethoxazole by activated sludge applied as co-substrate and sole carbon and nitrogen source. *Chemosphere*, **2013**, 92, 969-78	8.4	185
91	Aerobic granules dwelling vorticella and rotifers in an SBR fed with domestic wastewater. *Separation and Purification Technology*, **2013**, 110, 127-131	8.3	25
90	Assessment of the viability of Cryptosporidium parvum oocysts with the induction ratio of hsp70 mRNA production in manure. *Journal of Microbiological Methods*, **2013**, 94, 280-9	2.8	4
89	Comparison of two different anaerobic feeding strategies to establish a stable aerobic granulated sludge bed. *Water Research*, **2013**, 47, 6423-31	12.5	27
88	Characterization of pure cultures isolated from sulfamethoxazole-acclimated activated sludge with respect to taxonomic identification and sulfamethoxazole biodegradation potential. *BMC Microbiology*, **2013**, 13, 276	4.5	56
87	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. *Journal of Applied Microbiology*, **2013**, 114, 339-51	4.7	8

86	Comparing the performance and operation stability of an SBR and MBBR for single-stage nitritation-anammox treating wastewater with high organic load. *Environmental Technology (United Kingdom)*, **2013**, 34, 1319-28	2.6	35
85	Effects of Fe(II) and Fe(III) on the single-stage deammonification process treating high-strength reject water from sludge dewatering. *Bioresource Technology*, **2012**, 114, 12-9	11	34
84	Evaluating operation strategies and process stability of a single stage nitritation-anammox SBR by use of the oxidation-reduction potential (ORP). *Bioresource Technology*, **2012**, 107, 70-7	11	52
83	Anaerobic submerged membrane bioreactor (AnSMBR) treating low-strength wastewater under psychrophilic temperature conditions. *Process Biochemistry*, **2012**, 47, 792-798	4.8	38
82	Lab scale experiments using a submerged MBR under thermophilic aerobic conditions for the treatment of paper mill deinking wastewater. *Bioresource Technology*, **2012**, 122, 11-6	11	28
81	Effects of biofilm geometry on deammonification biofilm performance: a simulation study. *Bioresource Technology*, **2012**, 116, 252-8	11	2
80	Mass transfer enhancement in moving biofilm structures. *Biophysical Journal*, **2012**, 102, 1483-92	2.9	55
79	Oxygen transport within the biofilm matrix of a membrane biofilm reactor treating gaseous toluene. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 751-757	3.5	12
78	Industrieabwasserbehandlung und -recycling Potenziale und Perspektiven. *Chemie-Ingenieur-Technik*, **2012**, 84, 1005-1017	0.8	4
77	Achieving nitrite accumulation in a continuous system treating low-strength domestic wastewater: switchover from batch start-up to continuous operation with process control. *Applied Microbiology and Biotechnology*, **2012**, 94, 517-26	5.7	20
76	Swinging ORP as operation strategy for stable reject water treatment by nitritation anammox in sequencing batch reactors. *Chemical Engineering Journal*, **2012**, 180, 190-196	14.7	39
75	Dependence of the initial adhesion of biofilm forming Pseudomonas putida mt2 on physico-chemical material properties. *Biofouling*, **2012**, 28, 315-27	3.3	10
74	Heavy metal removal in anaerobic semi-continuous stirred tank reactors by a consortium of sulfate-reducing bacteria. *Water Research*, **2011**, 45, 3863-70	12.5	144
73	Anaerobic submerged membrane bioreactor (AnSMBR) for municipal wastewater treatment under mesophilic and psychrophilic temperature conditions. *Bioresource Technology*, **2011**, 102, 10377-85	11	188
72	Pilot-scale anaerobic submerged membrane bioreactor (AnSMBR) treating municipal wastewater: the fouling phenomenon and long-term operation. *Water Science and Technology*, **2011**, 64, 1804-11	2.2	18
71	Modelling waste stabilisation ponds with an extended version of ASM3. *Water Science and Technology*, **2010**, 61, 713-20	2.2	11
70	Label-free in situ SERS imaging of biofilms. *Journal of Physical Chemistry B*, **2010**, 114, 10184-94	3.4	75
69	Morphology of filamentous fungi: linking cellular biology to process engineering using Aspergillus niger. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 121, 1-21	1.7	15

68	A field study on the first flush effect of copper roof runoff. *Corrosion Science*, **2010**, 52, 21-29	6.8	25
67	Modeling of slow sand filtration for disinfection of secondary clarifier effluent. *Water Research*, **2010**, 44, 159-66	12.5	22
66	Nitritation performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. *Water Research*, **2010**, 44, 6073-84	12.5	48
65	Runoff pollutants of a highly trafficked urban road--correlation analysis and seasonal influences. *Chemosphere*, **2010**, 80, 991-7	8.4	135
64	Raman microscopy and surface-enhanced Raman scattering (SERS) for in situ analysis of biofilms. *Journal of Biophotonics*, **2010**, 3, 548-56	3.1	38
63	Computational study of the drag and oscillatory movement of biofilm streamers in fast flows. *Biotechnology and Bioengineering*, **2010**, 105, 600-10	4.9	48
62	Online assessment of biofilm development, sloughing and forced detachment in tube reactor by means of magnetic resonance microscopy. *Biotechnology and Bioengineering*, **2010**, 107, 172-81	4.9	30
61	Investigation of the mesoscale structure and volumetric features of biofilms using optical coherence tomography. *Biotechnology and Bioengineering*, **2010**, 107, 844-53	4.9	95
60	Biogas from grass silage - Measurements and modeling with ADM1. *Bioresource Technology*, **2010**, 101, 8158-65	11	124
59	Combined application of 13C NMR spectroscopy and confocal laser scanning microscopy□Investigation on biofilm structure and physico-chemical properties. *Chemical Engineering Science*, **2010**, 65, 4691-4700	4.4	18
58	3D finite element model of biofilm detachment using real biofilm structures from CLSM data. *Biotechnology and Bioengineering*, **2009**, 103, 177-86	4.9	51
57	Effective diffusivities and mass fluxes in fungal biopellets. *Biotechnology and Bioengineering*, **2009**, 103, 1202-13	4.9	40
56	Application of two component biodegradable carriers in a particle-fixed biofilm airlift suspension reactor: development and structure of biofilms. *Bioprocess and Biosystems Engineering*, **2009**, 32, 31-9	3.7	16
55	Sloughing and limited substrate conditions trigger filamentous growth in heterotrophic biofilms□Measurements in flow-through tube reactor. *Chemical Engineering Science*, **2009**, 64, 2723-2732	4.4	26
54	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. *Analytical and Bioanalytical Chemistry*, **2009**, 393, 197-206	4.4	122
53	Opportunities in rainwater harvesting. *Desalination*, **2009**, 248, 118-124	10.3	155
52	Analysis of design approaches for stabilization ponds under different boundary conditions□A comparison. *Ecological Engineering*, **2009**, 35, 1117-1128	3.9	12
51	Monofermentation of grass silage under mesophilic conditions: measurements and mathematical modeling with ADM 1. *Bioresource Technology*, **2009**, 100, 1675-81	11	61

50	Mono fermentation of grass silage by means of loop reactors. *Bioresource Technology*, **2009**, 100, 5934-40	11	87
49	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): investigations on EPS-Matrix. *Water Research*, **2009**, 43, 63-76	12.5	161
48	Evaluation of two methods for quantification of hsp70 mRNA from the waterborne pathogen Cryptosporidium parvum by reverse transcription real-time PCR in environmental samples. *Water Research*, **2009**, 43, 2669-78	12.5	18
47	Simultaneous nitrification/denitrification in a biofilm airlift suspension (BAS) reactor with biodegradable carrier material. *Water Research*, **2009**, 43, 4461-8	12.5	80
46	Slow sand filtration of secondary clarifier effluent for wastewater reuse. *Environmental Science & Technology*, **2009**, 43, 5896-901	10.3	38
45	In situ surface-enhanced Raman scattering analysis of biofilm. *Analytical Chemistry*, **2008**, 80, 8538-44	7.8	79
44	Experimental results and mathematical modelling of an autotrophic and heterotrophic biofilm in a sand filter treating landfill leachate and municipal wastewater. *Water Research*, **2008**, 42, 3899-909	12.5	19
43	The impact of sunlight on inactivation of indicator microorganisms both in river water and benthic biofilms. *Water Research*, **2008**, 42, 4771-9	12.5	35
42	Time focused measurements of roof runoff quality. *Corrosion Science*, **2008**, 50, 384-391	6.8	33
41	Investigations and mathematical simulation on decentralized anaerobic treatment of agricultural substrate from livestock farming. *Water Science and Technology*, **2008**, 58, 67-72	2.2	22
40	Optimizing sequencing batch reactor (SBR) reactor operation for treatment of dairy wastewater with aerobic granular sludge. *Water Science and Technology*, **2008**, 58, 1199-206	2.2	13
39	Interaction between biofilm development, structure and detachment in rotating annular reactors. *Bioprocess and Biosystems Engineering*, **2008**, 31, 619-29	3.7	44
38	Planted soil filters with activated pretreatment for compost-place wastewater treatment. *Ecohydrology and Hydrobiology*, **2007**, 7, 215-221	2.8	1
37	Wastewater treatment with activated pre-clarifier and planted soil filters. *Water Science and Technology*, **2007**, 55, 195-202	2.2	1
36	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. *Biotechnology and Bioengineering*, **2007**, 98, 747-55	4.9	89
35	Quantification of product-specific gene expression in biopellets of Aspergillus niger with real-time PCR. *Enzyme and Microbial Technology*, **2007**, 40, 653-660	3.8	4
34	Comparison of some characteristics of aerobic granules and sludge flocs from sequencing batch reactors. *Water Science and Technology*, **2007**, 55, 403-11	2.2	19
33	Development of an empirical mathematical model for describing and optimizing the hygiene potential of a thermophilic anaerobic bioreactor treating faeces. *Water Science and Technology*, **2007**, 55, 95-102	2.2	10

32	Thermophilic anaerobic digestion in compact systems: investigations by modern microbiological techniques and mathematical simulation. *Water Science and Technology*, **2007**, 56, 19-28	2.2	10
31	On-site infiltration of a copper roof runoff: role of clinoptilolite as an artificial barrier material. *Water Research*, **2007**, 41, 3251-8	12.5	16
30	Modelling the energy balance of an anaerobic digester fed with cattle manure and renewable energy crops. *Water Research*, **2007**, 41, 4085-96	12.5	141
29	Selection of reference genes for normalisation of specific gene quantification data of Aspergillus niger. *Journal of Biotechnology*, **2007**, 132, 353-8	3.7	50
28	Scheinbare Sekretionsverzögerung durch Produktadsorption bei Aspergillus niger. *Chemie-Ingenieur-Technik*, **2006**, 78, 285-288	0.8	3
27	Einfluss der Morphologie auf Stofftransport und -umsatz in Aspergillus niger-Pellets. *Chemie-Ingenieur-Technik*, **2006**, 78, 627-632	0.8	9
26	Transport of oxygen, sodium chloride, and sodium nitrate in biofilms. *Chemical Engineering Science*, **2006**, 61, 1347-1356	4.4	59
25	Apparent Delay of Product Secretion by Product Adsorption in Aspergillus niger. *Engineering in Life Sciences*, **2006**, 6, 488-491	3.4	3
24	Model-based prediction of substrate conversion and protein synthesis and excretion in recombinant Aspergillus niger biopellets. *Chemical Engineering Science*, **2005**, 60, 2729-2739	4.4	25
23	Oxygen profiles and biomass distribution in biopellets of Aspergillus niger. *Biotechnology and Bioengineering*, **2005**, 92, 614-23	4.9	72
22	Simulation von Wachstum und Abtrag von Biomasse Eine exemplarische Betrachtung f eine 2D-Modellierung. *Chemie-Ingenieur-Technik*, **2005**, 77, 418-424	0.8	
21	Investigation of biofilm structure, flow patterns and detachment with magnetic resonance imaging. *Water Science and Technology*, **2005**, 52, 1-6	2.2	29
20	Growth, structure and oxygen penetration in particle supported autotrophic biofilms. *Water Science and Technology*, **2004**, 49, 371-377	2.2	17
19	Behaviour of biofilm systems under varying hydrodynamic conditions. *Water Science and Technology*, **2004**, 49, 345-351	2.2	26
18	Volumetric measurements of bacterial cells and extracellular polymeric substance glycoconjugates in biofilms. *Biotechnology and Bioengineering*, **2004**, 88, 585-92	4.9	166
17	Influence of growth history on sloughing and erosion from biofilms. *Water Research*, **2004**, 38, 3671-84	12.5	95
16	RIONET: a water quality management tool for river basins. *Water Science and Technology*, **2003**, 48, 47-53	2.2	5
15	Investigation and Modeling of Growth, Structure and Oxygen Penetration in Particle Supported Biofilms. *Chemical Engineering and Technology*, **2003**, 26, 219-222	2	11

14	Simulation of growth and detachment in biofilm systems under defined hydrodynamic conditions. *Biotechnology and Bioengineering*, **2003**, 81, 607-17	4.9	159
13	Measuring local flow velocities and biofilm structure in biofilm systems with magnetic resonance imaging (MRI). *Biotechnology and Bioengineering*, **2003**, 84, 424-32	4.9	98
12	2D simulation of transport and degradation in the River Rhine. *Water Science and Technology*, **2002**, 46, 99-104	2.2	0
11	Influence of growth conditions on biofilm development and mass transfer at the bulk/biofilm interface. *Water Research*, **2002**, 36, 4775-84	12.5	127
10	2D Simulation von Stofftransport und -umsatz im Rhein. *Chemie-Ingenieur-Technik*, **2001**, 73, 232-237	0.8	
9	Modelling the structure and function of extracellular polymeric substances in biofilms with new numerical techniques. *Water Science and Technology*, **2001**, 43, 121-127	2.2	46
8	Simulationsrechnungen zur Beschreibung von Biofilmsystemen. *Chemie-Ingenieur-Technik*, **2000**, 72, 1234-1237	0.8	2
7	Mass transfer phenomena in biofilm systems. *Water Science and Technology*, **2000**, 41, 357-360	2.2	26
6	Simulation of tertiary denitrification with methanol in an upflow biofilter. *Water Science and Technology*, **2000**, 41, 185-190	2.2	8
5	Modeling mass transfer and substrate utilization in the boundary layer of biofilm systems. *Water Science and Technology*, **1998**, 37, 139	2.2	4
4	Growth and decay in an auto-/heterotrophic biofilm. *Water Research*, **1997**, 31, 2243-2252	12.5	58
3	Substrate utilization and mass transfer in an autotrophic biofilm system: Experimental results and numerical simulation. *Biotechnology and Bioengineering*, **1997**, 53, 363-71	4.9	36
2	Mass transfer coefficients for an autotrophic and a heterotrophic biofilm system. *Water Science and Technology*, **1995**, 32, 199	2.2	13
1	Dynamics of a nitrifying bacteria population in a biofilm controlled by an oxygen microelectrode. *Water Science and Technology*, **1994**, 29, 69-76	2.2	10