

Jurg Keller

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.

215
papers

26,137
citations

87
h-index

159
g-index

225
ext. papers

28,839
ext. citations

9.2
avg, IF

7.05
L-index

#	Paper	IF	Citations
215	Electrochemical oxidation processes for PFAS removal from contaminated water and wastewater: fundamentals, gaps and opportunities towards practical implementation.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128886	12.8	0
214	Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. <i>Chemosphere</i> , 2021 , 291, 132723	8.4	3
213	Selective Extraction of Medium-Chain Carboxylic Acids by Electrodialysis and Phase Separation. <i>ACS Omega</i> , 2021 , 6, 7841-7850	3.9	2
212	The impact of primary sedimentation on the use of iron-rich drinking water sludge on the urban wastewater system. <i>Journal of Hazardous Materials</i> , 2021 , 402, 124051	12.8	4
211	Enhancing anaerobic digestion using free nitrous acid: Identifying the optimal pre-treatment condition in continuous operation. <i>Water Research</i> , 2021 , 205, 117694	12.5	2
210	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. <i>Water Research</i> , 2020 , 174, 115627	12.5	14
209	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. <i>Water Research</i> , 2020 , 171, 115396	12.5	20
208	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. <i>Water Research</i> , 2020 , 184, 116179	12.5	4
207	Removal of Pharmaceuticals and Illicit Drugs from Wastewater Due to Ferric Dosing in Sewers. <i>Environmental Science & Technology</i> , 2019 , 53, 6245-6254	10.3	16
206	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019 , 4, 1183-1195	26.6	248
205	Microbial electrosynthesis system with dual biocathode arrangement for simultaneous acetogenesis, solventogenesis and carbon chain elongation. <i>Chemical Communications</i> , 2019 , 55, 4351-4354	5.8	41
204	Periodic deprivation of gaseous hydrogen sulfide affects the activity of the concrete corrosion layer in sewers. <i>Water Research</i> , 2019 , 157, 463-471	12.5	4
203	Opportunities for reducing coagulants usage in urban water management: The Oxley Creek Sewage Collection and Treatment System as an example. <i>Water Research</i> , 2019 , 165, 114996	12.5	11
202	Effective removal of MIB and geosmin using MBBR for drinking water treatment. <i>Water Research</i> , 2019 , 149, 440-447	12.5	8
201	Evaluation of data-driven models for predicting the service life of concrete sewer pipes subjected to corrosion. <i>Journal of Environmental Management</i> , 2019 , 234, 431-439	7.9	29
200	Oxidative capacitance of sulfate-based boron-doped diamond electrochemical system. <i>Electrochemistry Communications</i> , 2018 , 89, 14-18	5.1	12
199	Microbial Electrosynthesis of Isobutyric, Butyric, Caproic Acids, and Corresponding Alcohols from Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8485-8493	8.3	111

198	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes. <i>Water Research</i> , 2018 , 146, 109-117	12.5	36
197	Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 119-124	11	81
196	Long-term performance of enhanced-zero valent iron for drinking water treatment: A lab-scale study. <i>Chemical Engineering Journal</i> , 2017 , 315, 124-131	14.7	7
195	A novel bioelectrochemical system for chemical-free permanent treatment of acid mine drainage. <i>Water Research</i> , 2017 , 126, 411-420	12.5	45
194	Comparison of microbial communities across sections of a corroding sewer pipe and the effects of wastewater flooding. <i>Biofouling</i> , 2017 , 33, 780-792	3.3	18
193	Odor emissions from domestic wastewater: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 1581-1611	11.1	52
192	Nutrient removal and energy recovery from high-rate activated sludge processes - Impact of sludge age. <i>Bioresource Technology</i> , 2017 , 245, 1155-1161	11	37
191	Assessment of the impact of chloride on the formation of chlorinated by-products in the presence and absence of electrochemically activated sulfate. <i>Chemical Engineering Journal</i> , 2017 , 330, 1265-1271	14.7	41
190	Selective cathodic microbial biofilm retention allows a high current-to-sulfide efficiency in sulfate-reducing microbial electrolysis cells. <i>Bioelectrochemistry</i> , 2017 , 118, 62-69	5.6	17
189	Kinetics and mechanisms of nitrate and ammonium formation during ozonation of dissolved organic nitrogen. <i>Water Research</i> , 2017 , 108, 451-461	12.5	46
188	Prediction of concrete corrosion in sewers with hybrid Gaussian processes regression model. <i>RSC Advances</i> , 2017 , 7, 30894-30903	3.7	17
187	Marine phototrophic consortia transfer electrons to electrodes in response to reductive stress. <i>Photosynthesis Research</i> , 2016 , 127, 347-54	3.7	9
186	Cathodic biofilm activates electrode surface and achieves efficient autotrophic sulfate reduction. <i>Electrochimica Acta</i> , 2016 , 213, 66-74	6.7	23
185	Wastewater-Enhanced Microbial Corrosion of Concrete Sewers. <i>Environmental Science & Technology</i> , 2016 , 50, 8084-92	10.3	56
184	Biodegradability of DBP precursors after drinking water ozonation. <i>Water Research</i> , 2016 , 106, 550-561	12.5	39
183	Predicting concrete corrosion of sewers using artificial neural network. <i>Water Research</i> , 2016 , 92, 52-60	12.5	76
182	Enhancing zero valent iron based natural organic matter removal by mixing with dispersed carbon cathodes. <i>Science of the Total Environment</i> , 2016 , 550, 95-102	10.2	11
181	Bringing High-Rate, CO ₂ -Based Microbial Electrosynthesis Closer to Practical Implementation through Improved Electrode Design and Operating Conditions. <i>Environmental Science & Technology</i> , 2016 , 50, 1982-9	10.3	107

180	Effects of surface washing on the mitigation of concrete corrosion under sewer conditions. <i>Cement and Concrete Composites</i> , 2016 , 68, 88-95	8.6	21
179	Biologically Induced Hydrogen Production Drives High Rate/High Efficiency Microbial Electrosynthesis of Acetate from Carbon Dioxide. <i>ChemElectroChem</i> , 2016 , 3, 581-591	4.3	94
178	Evaluation of anaerobic digestion processes for short sludge-age waste activated sludge combined with anammox treatment of digestate liquor. <i>Water Science and Technology</i> , 2016 , 73, 1052-60	2.2	4
177	Nitrite addition to acidified sludge significantly improves digestibility, toxic metal removal, dewaterability and pathogen reduction. <i>Scientific Reports</i> , 2016 , 6, 39795	4.9	4
176	Reducing natural organic matter and disinfection by-product precursors by alternating oxic and anoxic conditions during engineered short residence time riverbank filtration: A laboratory-scale column study. <i>Science of the Total Environment</i> , 2016 , 565, 616-625	10.2	13
175	Domestic wastewater treatment with purple phototrophic bacteria using a novel continuous photo anaerobic membrane bioreactor. <i>Water Research</i> , 2016 , 100, 486-495	12.5	125
174	Reverse osmosis integrity monitoring in water reuse: The challenge to verify virus removal - A review. <i>Water Research</i> , 2016 , 98, 384-95	12.5	72
173	A laboratory investigation of interactions between denitrifying anaerobic methane oxidation (DAMO) and anammox processes in anoxic environments. <i>Scientific Reports</i> , 2015 , 5, 8706	4.9	58
172	Enhancing toxic metal removal from acidified sludge with nitrite addition. <i>Environmental Science & Technology</i> , 2015 , 49, 6257-63	10.3	29
171	Impact of fluctuations in gaseous H ₂ S concentrations on sulfide uptake by sewer concrete: The effect of high H ₂ S loads. <i>Water Research</i> , 2015 , 81, 84-91	12.5	19
170	Source-separated urine opens golden opportunities for microbial electrochemical technologies. <i>Trends in Biotechnology</i> , 2015 , 33, 214-20	15.1	121
169	Development of bioelectrocatalytic activity stimulates mixed-culture reduction of glycerol in a bioelectrochemical system. <i>Microbial Biotechnology</i> , 2015 , 8, 483-9	6.3	29
168	Towards reducing DBP formation potential of drinking water by favouring direct ozone over hydroxyl radical reactions during ozonation. <i>Water Research</i> , 2015 , 87, 49-58	12.5	90
167	High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide. <i>Environmental Science & Technology</i> , 2015 , 49, 13566-74	10.3	183
166	Methanobacterium enables high rate electricity-driven autotrophic sulfate reduction. <i>RSC Advances</i> , 2015 , 5, 89368-89374	3.7	31
165	Scaling-Free Electrochemical Production of Caustic and Oxygen for Sulfide Control in Sewers. <i>Environmental Science & Technology</i> , 2015 , 49, 11395-402	10.3	4
164	Fully reversible current driven by a dual marine photosynthetic microbial community. <i>Bioresource Technology</i> , 2015 , 195, 248-53	11	10
163	Removal of Persistent Organic Contaminants by Electrochemically Activated Sulfate. <i>Environmental Science & Technology</i> , 2015 , 49, 14326-33	10.3	178

162	A novel and simple treatment for control of sulfide induced sewer concrete corrosion using free nitrous acid. <i>Water Research</i> , 2015 , 70, 279-87	12.5	37
161	Autotrophic hydrogen-producing biofilm growth sustained by a cathode as the sole electron and energy source. <i>Bioelectrochemistry</i> , 2015 , 102, 56-63	5.6	54
160	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1555-1578	11.1	52
159	Biological phosphorus removal from abattoir wastewater at very short sludge ages mediated by novel PAO clade Comamonadaceae. <i>Water Research</i> , 2015 , 69, 173-182	12.5	85
158	Removal of organic contaminants from secondary effluent by anodic oxidation with a boron-doped diamond anode as tertiary treatment. <i>Journal of Hazardous Materials</i> , 2015 , 283, 551-7	12.8	190
157	Identification of controlling factors for the initiation of corrosion of fresh concrete sewers. <i>Water Research</i> , 2015 , 80, 30-40	12.5	51
156	Feasibility of sulfide control in sewers by reuse of iron rich drinking water treatment sludge. <i>Water Research</i> , 2015 , 71, 150-9	12.5	54
155	Oxidised stainless steel: a very effective electrode material for microbial fuel cell bioanodes but at high risk of corrosion. <i>Electrochimica Acta</i> , 2015 , 158, 356-360	6.7	41
154	Phototrophic bacteria for nutrient recovery from domestic wastewater. <i>Water Research</i> , 2014 , 50, 18-26	12.5	115
153	The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014 , 49, 166-74	12.5	69
152	A novel carbon nanotube modified scaffold as an efficient biocathode material for improved microbial electrosynthesis. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13093-13102	13	195
151	Determining the long-term effects of H ₂ S concentration, relative humidity and air temperature on concrete sewer corrosion. <i>Water Research</i> , 2014 , 65, 157-69	12.5	86
150	Water engineering. Reducing sewer corrosion through integrated urban water management. <i>Science</i> , 2014 , 345, 812-4	33.3	151
149	A rapid, non-destructive methodology to monitor activity of sulfide-induced corrosion of concrete based on H ₂ S uptake rate. <i>Water Research</i> , 2014 , 59, 229-38	12.5	25
148	Oxygen suppresses light-driven anodic current generation by a mixed phototrophic culture. <i>Environmental Science & Technology</i> , 2014 , 48, 14000-6	10.3	15
147	Anaerobic oxidation of methane coupled to nitrate reduction in a novel archaeal lineage. <i>Nature</i> , 2013 , 500, 567-70	50.4	750
146	Anodic reactivity of ferrous sulfide precipitates changing over time due to particulate speciation. <i>Environmental Science & Technology</i> , 2013 , 47, 12366-73	10.3	8
145	Nitrogen removal from wastewater by coupling anammox and methane-dependent denitrification in a membrane biofilm reactor. <i>Environmental Science & Technology</i> , 2013 , 47, 11577-83	10.3	184

144	The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2013 , 6, 1291	35.4	110
143	Plasma treatment of electrodes significantly enhances the development of anodic electrochemically active biofilms. <i>Electrochimica Acta</i> , 2013 , 108, 566-574	6.7	29
142	Operating aerobic wastewater treatment at very short sludge ages enables treatment and energy recovery through anaerobic sludge digestion. <i>Water Research</i> , 2013 , 47, 6546-57	12.5	92
141	Effects of surface charge and hydrophobicity on anodic biofilm formation, community composition, and current generation in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2013 , 47, 7563-70	10.3	234
140	Effect of pH on the ageing of reverse osmosis membranes upon exposure to hypochlorite. <i>Desalination</i> , 2013 , 309, 97-105	10.3	59
139	Carbon and electron fluxes during the electricity driven 1,3-propanediol biosynthesis from glycerol. <i>Environmental Science & Technology</i> , 2013 , 47, 11199-205	10.3	75
138	Removal of the X-ray contrast media diatrizoate by electrochemical reduction and oxidation. <i>Environmental Science & Technology</i> , 2013 , 47, 13686-94	10.3	36
137	Impact of Iron Salt Dosage to Sewers on Downstream Anaerobic Sludge Digesters: Sulfide Control and Methane Production. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 594-601	2	67
136	Ozonation and biological activated carbon filtration of wastewater treatment plant effluents. <i>Water Research</i> , 2012 , 46, 863-72	12.5	253
135	Reductive electrochemical remediation of emerging and regulated disinfection byproducts. <i>Water Research</i> , 2012 , 46, 1705-14	12.5	66
134	Long-term field test of an electrochemical method for sulfide removal from sewage. <i>Water Research</i> , 2012 , 46, 3085-93	12.5	16
133	Surface neutralization and H ₂ S oxidation at early stages of sewer corrosion: influence of temperature, relative humidity and H ₂ S concentration. <i>Water Research</i> , 2012 , 46, 4235-45	12.5	102
132	Consumption-based approach for assessing the contribution of hospitals towards the load of pharmaceutical residues in municipal wastewater. <i>Environment International</i> , 2012 , 45, 99-111	12.9	97
131	Bioelectrochemical systems: Microbial versus enzymatic catalysis. <i>Electrochimica Acta</i> , 2012 , 82, 165-174.6.7		47
130	Evaluating a strategy for maintaining nitrifier activity during long-term starvation in a moving bed biofilm reactor (MBBR) treating reverse osmosis concentrate. <i>Water Science and Technology</i> , 2012 , 66, 837-42	2.2	4
129	Dynamic Response of Sulfate-Reducing and Methanogenic Activities of Anaerobic Sewer Biofilms to Ferric Dosing. <i>Journal of Environmental Engineering, ASCE</i> , 2012 , 138, 510-517	2	9
128	High-throughput amplicon sequencing reveals distinct communities within a corroding concrete sewer system. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7160-2	4.8	48
127	Electrochemical oxidation of trace organic contaminants in reverse osmosis concentrate using RuO ₂ /IrO ₂ -coated titanium anodes. <i>Water Research</i> , 2011 , 45, 1579-86	12.5	109

126	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. <i>Water Research</i> , 2011 , 45, 2281-9	12.5	50
125	Characterisation and removal of recalcitrants in reverse osmosis concentrates from water reclamation plants. <i>Water Research</i> , 2011 , 45, 2415-27	12.5	83
124	Biofiltration of wastewater treatment plant effluent: effective removal of pharmaceuticals and personal care products and reduction of toxicity. <i>Water Research</i> , 2011 , 45, 2751-62	12.5	173
123	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. <i>Water Research</i> , 2011 , 45, 5381-8	12.5	71
122	Fate of N-nitrosodimethylamine, trihalomethane and haloacetic acid precursors in tertiary treatment including biofiltration. <i>Water Research</i> , 2011 , 45, 5695-704	12.5	67
121	Optimization of intermittent, simultaneous dosage of nitrite and hydrochloric acid to control sulfide and methane productions in sewers. <i>Water Research</i> , 2011 , 45, 6163-72	12.5	46
120	Effect of nitrate and nitrite on the selection of microorganisms in the denitrifying anaerobic methane oxidation process. <i>Environmental Microbiology Reports</i> , 2011 , 3, 315-9	3.7	85
119	Biofilm stratification during simultaneous nitrification and denitrification (SND) at a biocathode. <i>Bioresource Technology</i> , 2011 , 102, 334-41	11	108
118	Dehalogenation of iodinated X-ray contrast media in a bioelectrochemical system. <i>Environmental Science & Technology</i> , 2011 , 45, 782-8	10.3	39
117	Understanding the operational parameters affecting NDMA formation at Advanced Water Treatment Plants. <i>Journal of Hazardous Materials</i> , 2011 , 185, 1575-81	12.8	60
116	SCORE-CT: a new method for testing effectiveness of sulfide-control chemicals used in sewer systems. <i>Water Science and Technology</i> , 2011 , 64, 2381-8	2.2	15
115	Electrochemical Quartz Crystal Microbalance to Monitor Biofilm Growth and Properties during BioElectrochemical System Inoculation and Load Conditions. <i>ECS Transactions</i> , 2010 , 28, 11-22	1	4
114	Ferrous Salt Demand for Sulfide Control in Rising Main Sewers: Tests on a Laboratory-Scale Sewer System. <i>Journal of Environmental Engineering, ASCE</i> , 2010 , 136, 1180-1187	2	17
113	Removal of magnetic resonance imaging contrast agents through advanced water treatment plants. <i>Water Science and Technology</i> , 2010 , 61, 685-92	2.2	18
112	High current generation coupled to caustic production using a lamellar bioelectrochemical system. <i>Environmental Science & Technology</i> , 2010 , 44, 4315-21	10.3	163
111	Determining the fraction of pharmaceutical residues in wastewater originating from a hospital. <i>Water Research</i> , 2010 , 44, 605-15	12.5	134
110	Monitoring the biological activity of micropollutants during advanced wastewater treatment with ozonation and activated carbon filtration. <i>Water Research</i> , 2010 , 44, 477-92	12.5	103
109	Removal of micropollutants and reduction of biological activity in a full scale reclamation plant using ozonation and activated carbon filtration. <i>Water Research</i> , 2010 , 44, 625-37	12.5	251

108	Electrochemical sulfide removal and recovery from paper mill anaerobic treatment effluent. <i>Water Research</i> , 2010 , 44, 2563-71	12.5	66
107	Simultaneous nitrification, denitrification and carbon removal in microbial fuel cells. <i>Water Research</i> , 2010 , 44, 2970-80	12.5	298
106	Initial development and structure of biofilms on microbial fuel cell anodes. <i>BMC Microbiology</i> , 2010 , 10, 98	4.5	155
105	Microbial fuel cells operating on mixed fatty acids. <i>Bioresource Technology</i> , 2010 , 101, 1233-8	11	153
104	Understanding the properties of aerobic sludge granules as hydrogels. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1483-93	4.9	84
103	Impact of oxygen mass transfer on nitrification reactions in suspended carrier reactor biofilms. <i>Process Biochemistry</i> , 2009 , 44, 43-53	4.8	32
102	A comparative study of methanol as a supplementary carbon source for enhancing denitrification in primary and secondary anoxic zones. <i>Biodegradation</i> , 2009 , 20, 221-34	4.1	33
101	A sequencing batch reactor system for high-level biological nitrogen and phosphorus removal from abattoir wastewater. <i>Biodegradation</i> , 2009 , 20, 339-50	4.1	34
100	Electrochemical regeneration of sulfur loaded electrodes. <i>Electrochemistry Communications</i> , 2009 , 11, 1437-1440	5.1	47
99	Efficient hydrogen peroxide generation from organic matter in a bioelectrochemical system. <i>Electrochemistry Communications</i> , 2009 , 11, 1752-1755	5.1	317
98	Removal of sulfate from high-strength wastewater by crystallisation. <i>Water Research</i> , 2009 , 43, 762-72	12.5	76
97	Development of a model for assessing methane formation in rising main sewers. <i>Water Research</i> , 2009 , 43, 2874-84	12.5	82
96	Detection of anthropogenic gadolinium in treated wastewater in South East Queensland, Australia. <i>Water Research</i> , 2009 , 43, 3534-40	12.5	66
95	Inhibition of sulfate-reducing and methanogenic activities of anaerobic sewer biofilms by ferric iron dosing. <i>Water Research</i> , 2009 , 43, 4123-32	12.5	122
94	Impact of nitrate addition on biofilm properties and activities in rising main sewers. <i>Water Research</i> , 2009 , 43, 4225-37	12.5	77
93	Sulfur transformation in rising main sewers receiving nitrate dosage. <i>Water Research</i> , 2009 , 43, 4430-40	12.5	126
92	Gel-forming exopolysaccharides explain basic differences between structures of aerobic sludge granules and floccular sludges. <i>Water Research</i> , 2009 , 43, 4469-78	12.5	121
91	Role of sulfur during acetate oxidation in biological anodes. <i>Environmental Science & Technology</i> , 2009 , 43, 3839-45	10.3	61

90	Enrichment of denitrifying anaerobic methane oxidizing microorganisms. <i>Environmental Microbiology Reports</i> , 2009 , 1, 377-84	3.7	163
89	Decolorization of azo dyes in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2009 , 43, 5137-43	10.3	268
88	Nitrobenzene removal in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2009 , 43, 8690-5	10.3	174
87	Electron fluxes in a microbial fuel cell performing carbon and nitrogen removal. <i>Environmental Science & Technology</i> , 2009 , 43, 5144-9	10.3	112
86	Variation in biofilm structure and activity along the length of a rising main sewer. <i>Water Environment Research</i> , 2009 , 81, 800-8	2.8	25
85	Cathodic oxygen reduction catalyzed by bacteria in microbial fuel cells. <i>ISME Journal</i> , 2008 , 2, 519-27	11.9	233
84	Towards practical implementation of bioelectrochemical wastewater treatment. <i>Trends in Biotechnology</i> , 2008 , 26, 450-9	15.1	921
83	Sequential anode-cathode configuration improves cathodic oxygen reduction and effluent quality of microbial fuel cells. <i>Water Research</i> , 2008 , 42, 1387-96	12.5	160
82	Methane formation in sewer systems. <i>Water Research</i> , 2008 , 42, 1421-30	12.5	199
81	Demonstration of nitrogen removal via nitrite in a sequencing batch reactor treating domestic wastewater. <i>Water Research</i> , 2008 , 42, 2166-76	12.5	162
80	Dynamics and dynamic modelling of H ₂ S production in sewer systems. <i>Water Research</i> , 2008 , 42, 2527-38	12.5	114
79	Microbial fuel cells for simultaneous carbon and nitrogen removal. <i>Water Research</i> , 2008 , 42, 3013-24	12.5	361
78	Evaluation of oxygen injection as a means of controlling sulfide production in a sewer system. <i>Water Research</i> , 2008 , 42, 4549-61	12.5	106
77	Spontaneous electrochemical removal of aqueous sulfide. <i>Water Research</i> , 2008 , 42, 4965-75	12.5	103
76	Characterisation of polyhydroxyalkanoate copolymers with controllable four-monomer composition. <i>Journal of Biotechnology</i> , 2008 , 134, 137-45	3.7	61
75	Syntrophic processes drive the conversion of glucose in microbial fuel cell anodes. <i>Environmental Science & Technology</i> , 2008 , 42, 7937-43	10.3	168
74	Partial nitrification to nitrite using low dissolved oxygen concentration as the main selection factor. <i>Biodegradation</i> , 2008 , 19, 303-12	4.1	279
73	Sludge population optimisation in biological nutrient removal wastewater treatment systems through on-line process control: a re/view. <i>Reviews in Environmental Science and Biotechnology</i> , 2008 , 7, 243-254	13.9	28

72	The anode potential regulates bacterial activity in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 409-18	5.7	314
71	Simultaneous nitrification, denitrification, and phosphorus removal from nutrient-rich industrial wastewater using granular sludge. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 529-41	4.9	175
70	Microstructure of copolymers of polyhydroxyalkanoates produced by glycogen accumulating organisms with acetate as the sole carbon source. <i>Process Biochemistry</i> , 2008 , 43, 968-977	4.8	18
69	Analysis of Free Ammonia Inhibition of Nitrite Oxidizing Bacteria Using a Dissolved Oxygen Respirometer. <i>Environmental Engineering Research</i> , 2008 , 13, 125-130	3.6	6
68	Using Anoxygenic Photosynthetic Bacteria for the Removal of Sulfide from Wastewater. <i>Advances in Photosynthesis and Respiration</i> , 2008 , 437-460	1.7	8
67	Modeling the Aerobic Metabolism of Polyphosphate-Accumulating Organisms Enriched with Propionate as a Carbon Source. <i>Water Environment Research</i> , 2007 , 79, 2477-2486	2.8	21
66	Non-catalyzed cathodic oxygen reduction at graphite granules in microbial fuel cells. <i>Electrochimica Acta</i> , 2007 , 53, 598-603	6.7	224
65	Microbial ecology meets electrochemistry: electricity-driven and driving communities. <i>ISME Journal</i> , 2007 , 1, 9-18	11.9	385
64	Elucidation of metabolic pathways in glycogen-accumulating organisms with in vivo ¹³ C nuclear magnetic resonance. <i>Environmental Microbiology</i> , 2007 , 9, 2694-706	5.2	22
63	Determination of growth rate and yield of nitrifying bacteria by measuring carbon dioxide uptake rate. <i>Water Environment Research</i> , 2007 , 79, 2437-45	2.8	61
62	METABOLIC MODEL OF THE AEROBIC METABOLISM OF POLYPHOSPHATE ACCUMULATING ORGANISMS WITH A PROPIONATE CARBON SOURCE. <i>Proceedings of the Water Environment Federation</i> , 2007 , 2007, 1243-1255		
61	Effect of free ammonia on the respiration and growth processes of an enriched Nitrobacter culture. <i>Water Research</i> , 2007 , 41, 826-34	12.5	166
60	Engineered ecosystem for sustainable on-site wastewater treatment. <i>Water Research</i> , 2007 , 41, 1823-31	12.5	16
59	Kinetic characterisation of an enriched Nitrospira culture with comparison to Nitrobacter. <i>Water Research</i> , 2007 , 41, 3033-42	12.5	273
58	Anaerobic metabolism of <i>DeFluviicoccus vanus</i> related glycogen accumulating organisms (GAOs) with acetate and propionate as carbon sources. <i>Water Research</i> , 2007 , 41, 1885-96	12.5	54
57	Effectiveness of an alternating aerobic, anoxic/anaerobic strategy for maintaining biomass activity of BNR sludge during long-term starvation. <i>Water Research</i> , 2007 , 41, 2590-8	12.5	45
56	Advances in enhanced biological phosphorus removal: from micro to macro scale. <i>Water Research</i> , 2007 , 41, 2271-300	12.5	805
55	Endogenous metabolism of <i>Candidatus Accumulibacter phosphatis</i> under various starvation conditions. <i>Water Research</i> , 2007 , 41, 4646-56	12.5	66

54	Production of targeted poly(3-hydroxyalkanoates) copolymers by glycogen accumulating organisms using acetate as sole carbon source. <i>Journal of Biotechnology</i> , 2007 , 129, 489-97	3.7	65
53	Electron and carbon balances in microbial fuel cells reveal temporary bacterial storage behavior during electricity generation. <i>Environmental Science & Technology</i> , 2007 , 41, 2915-21	10.3	205
52	Stoichiometric and kinetic characterisation of Nitrobacter in mixed culture by decoupling the growth and energy generation processes. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 1176-88	4.9	56
51	Effect of free ammonia and free nitrous acid concentration on the anabolic and catabolic processes of an enriched Nitrosomonas culture. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 830-9	4.9	153
50	Anaerobic and aerobic metabolism of glycogen-accumulating organisms selected with propionate as the sole carbon source. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 2767-2778	2.9	89
49	The inhibitory effects of free nitrous acid on the energy generation and growth processes of an enriched nitrobacter culture. <i>Environmental Science & Technology</i> , 2006 , 40, 4442-8	10.3	154
48	Identifying causes for N ₂ O accumulation in a lab-scale sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. <i>Journal of Biotechnology</i> , 2006 , 122, 62-72	3.7	119
47	Competition between polyphosphate and glycogen accumulating organisms in enhanced biological phosphorus removal systems with acetate and propionate as carbon sources. <i>Journal of Biotechnology</i> , 2006 , 123, 22-32	3.7	142
46	Stoichiometric and kinetic characterisation of Nitrosomonas sp. in mixed culture by decoupling the growth and energy generation processes. <i>Journal of Biotechnology</i> , 2006 , 126, 342-56	3.7	34
45	Microbial fuel cells: methodology and technology. <i>Environmental Science & Technology</i> , 2006 , 40, 5181-92	10.3	4214
44	Efficient and stable nitritation and denitritation of ammonium-rich sludge dewatering liquor using an SBR with continuous loading. <i>Water Research</i> , 2006 , 40, 2765-75	12.5	128
43	Obtaining highly enriched cultures of Candidatus Accumulibacter phosphates through alternating carbon sources. <i>Water Research</i> , 2006 , 40, 3838-48	12.5	169
42	Effect of temperature and free ammonia on nitrification and nitrite accumulation in landfill leachate and analysis of its nitrifying bacterial community by FISH. <i>Bioresource Technology</i> , 2006 , 97, 459-68	11	300
41	Differential distribution of ammonia- and nitrite-oxidising bacteria in flocs and granules from a nitrifying/denitrifying sequencing batch reactor. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 1392-1398	3.8	29
40	Optimization of integrated chemical-biological degradation of a reactive azo dye using response surface methodology. <i>Journal of Hazardous Materials</i> , 2006 , 138, 160-8	12.8	141
39	Modelling of two-stage anaerobic digestion using the IWA Anaerobic Digestion Model No. 1 (ADM1). <i>Water Research</i> , 2005 , 39, 171-83	12.5	156
38	The effect of pH on the competition between polyphosphate-accumulating organisms and glycogen-accumulating organisms. <i>Water Research</i> , 2005 , 39, 3727-37	12.5	137
37	Optimisation of poly-beta-hydroxyalkanoate analysis using gas chromatography for enhanced biological phosphorus removal systems. <i>Journal of Chromatography A</i> , 2005 , 1070, 131-6	4.5	204

36	Anaerobic metabolism of propionate by polyphosphate-accumulating organisms in enhanced biological phosphorus removal systems. <i>Biotechnology and Bioengineering</i> , 2005 , 91, 43-53	4.9	141
35	Comparison of acetate and propionate uptake by polyphosphate accumulating organisms and glycogen accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2005 , 91, 162-8	4.9	172
34	Investigation of an acetate-fed denitrifying microbial community by stable isotope probing, full-cycle rRNA analysis, and fluorescent in situ hybridization-microautoradiography. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8683-91	4.8	138
33	Use of stable-isotope probing, full-cycle rRNA analysis, and fluorescence in situ hybridization-microautoradiography to study a methanol-fed denitrifying microbial community. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 588-96	4.8	192
32	Improved understanding of the interactions and complexities of biological nitrogen and phosphorus removal processes. <i>Reviews in Environmental Science and Biotechnology</i> , 2004 , 3, 265-272	13.9	13
31	Determination of external and internal mass transfer limitation in nitrifying microbial aggregates. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 445-57	4.9	22
30	Performance of a substratum-irradiated photosynthetic biofilm reactor for the removal of sulfide from wastewater. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 14-23	4.9	9
29	Modeling aerobic carbon oxidation and storage by integrating respirometric, titrimetric, and off-gas CO ₂ measurements. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 135-47	4.9	54
28	The influence of substrate kinetics on the microbial community structure in granular anaerobic biomass. <i>Water Research</i> , 2004 , 38, 1390-404	12.5	135
27	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 92-105	4.9	196
26	Enrichment of denitrifying glycogen-accumulating organisms in anaerobic/anoxic activated sludge system. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 397-404	4.9	132
25	Development of a novel titration and off-gas analysis (TOGA) sensor for study of biological processes in wastewater treatment systems. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 482-95	4.9	78
24	Identification and comparison of aerobic and denitrifying polyphosphate-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 140-8	4.9	147
23	Model-based analysis of anaerobic acetate uptake by a mixed culture of polyphosphate-accumulating and glycogen-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 293-302	4.9	49
22	Simultaneous nitrification, denitrification, and phosphorus removal in a lab-scale sequencing batch reactor. <i>Biotechnology and Bioengineering</i> , 2003 , 84, 170-8	4.9	338
21	Microscale structure and function of anaerobic-aerobic granules containing glycogen accumulating organisms. <i>FEMS Microbiology Ecology</i> , 2003 , 45, 253-61	4.3	34
20	Online titrimetric and off-gas analysis for examining nitrification processes in wastewater treatment. <i>Water Research</i> , 2003 , 37, 2678-90	12.5	20
19	Optimization and Control of Nitrogen Removal Activated Sludge Processes: A Review of Recent Developments. <i>Focus on Biotechnology</i> , 2003 , 187-227		4

18	Greenhouse gas production in wastewater treatment: process selection is the major factor. <i>Water Science and Technology</i> , 2003 , 47, 43-8	2.2	2
17	A decision support system for selecting sanitation systems in developing countries. <i>Socio-Economic Planning Sciences</i> , 2002 , 36, 267-290	3.7	26
16	Proposed modifications to metabolic model for glycogen-accumulating organisms under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 277-9	4.9	62
15	Integrating process engineering and microbiology tools to advance activated sludge wastewater treatment research and development. <i>Reviews in Environmental Science and Biotechnology</i> , 2002 , 1, 83-97	13.9	13
14	Glycogen-accumulating organisms in laboratory-scale and full-scale wastewater treatment processes. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3353-3364	2.9	336
13	Modern scientific methods and their potential in wastewater science and technology. <i>Water Research</i> , 2002 , 36, 370-93	12.5	53
12	Analysis of biological wastewater treatment processes using multicomponent gas phase mass balancing. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 361-75	4.9	25
11	Variation of bulk properties of anaerobic granules with wastewater type. <i>Water Research</i> , 2001 , 35, 1723-9	12.5	118
10	Identification of polyphosphate-accumulating organisms and design of 16S rRNA-directed probes for their detection and quantitation. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1175-82	4.8	626
9	Study of factors affecting simultaneous nitrification and denitrification (SND). <i>Water Science and Technology</i> , 1999 , 39, 61-68	2.2	139
8	Study of factors affecting simultaneous nitrification and denitrification (SND). <i>Water Science and Technology</i> , 1999 , 39, 61	2.2	133
7	Anaerobic phosphate release from activated sludge with enhanced biological phosphorus removal. A possible mechanism of intracellular pH control. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 507-15	4.9	33
6	Mathematical modelling of prefermenters. Model development and verification. <i>Water Research</i> , 1999 , 33, 2757-2768	12.5	43
5	Characterisation of the bacterial consortium involved in nitrite oxidation in activated sludge. <i>Water Science and Technology</i> , 1999 , 39, 45-52	2.2	9
4	Microbiology of a nitrite-oxidizing bioreactor. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 1878-83	4.8	126
3	Characterisation of enhanced biological phosphorus removal activated sludges with dissimilar phosphorus removal performances. <i>Water Science and Technology</i> , 1998 , 37, 567-571	2.2	13
2	Model development and full scale validation for anaerobic treatment of protein and fat based wastewater. <i>Water Science and Technology</i> , 1997 , 36, 423-431	2.2	8
1	Simultaneous nitrification and denitrification in bench-scale sequencing batch reactors. <i>Water Research</i> , 1996 , 30, 277-284	12.5	301

