

Jurg Keller

List of Publications by Citations

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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	Microbial fuel cells: methodology and technology. <i>Environmental Science & Technology</i> , 2006 , 40, 5181-92	10.3	4214
214	Towards practical implementation of bioelectrochemical wastewater treatment. <i>Trends in Biotechnology</i> , 2008 , 26, 450-9	15.1	921
213	Advances in enhanced biological phosphorus removal: from micro to macro scale. <i>Water Research</i> , 2007 , 41, 2271-300	12.5	805
212	Anaerobic oxidation of methane coupled to nitrate reduction in a novel archaeal lineage. <i>Nature</i> , 2013 , 500, 567-70	50.4	750
211	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
210	Microbial ecology meets electrochemistry: electricity-driven and driving communities. <i>ISME Journal</i> , 2007 , 1, 9-18	11.9	385
209	Microbial fuel cells for simultaneous carbon and nitrogen removal. <i>Water Research</i> , 2008 , 42, 3013-24	12.5	361
208	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
207	Glycogen-accumulating organisms in laboratory-scale and full-scale wastewater treatment processes. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3353-3364	2.9	336
206	Efficient hydrogen peroxide generation from organic matter in a bioelectrochemical system. <i>Electrochemistry Communications</i> , 2009 , 11, 1752-1755	5.1	317
205	The anode potential regulates bacterial activity in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 409-18	5.7	314
204	Simultaneous nitrification and denitrification in bench-scale sequencing batch reactors. <i>Water Research</i> , 1996 , 30, 277-284	12.5	301
203	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
202	Simultaneous nitrification, denitrification and carbon removal in microbial fuel cells. <i>Water Research</i> , 2010 , 44, 2970-80	12.5	298
201	Partial nitrification to nitrite using low dissolved oxygen concentration as the main selection factor. <i>Biodegradation</i> , 2008 , 19, 303-12	4.1	279
200	Kinetic characterisation of an enriched <i>Nitrospira</i> culture with comparison to <i>Nitrobacter</i> . <i>Water Research</i> , 2007 , 41, 3033-42	12.5	273
199	Decolorization of azo dyes in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2009 , 43, 5137-43	10.3	268

198	Ozonation and biological activated carbon filtration of wastewater treatment plant effluents. <i>Water Research</i> , 2012 , 46, 863-72	12.5	253
197	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
196	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019 , 4, 1183-1195	26.6	248
195	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
194	Cathodic oxygen reduction catalyzed by bacteria in microbial fuel cells. <i>ISME Journal</i> , 2008 , 2, 519-27	11.9	233
193	Non-catalyzed cathodic oxygen reduction at graphite granules in microbial fuel cells. <i>Electrochimica Acta</i> , 2007 , 53, 598-603	6.7	224
192	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
191	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
190	Methane formation in sewer systems. <i>Water Research</i> , 2008 , 42, 1421-30	12.5	199
189	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 92-105	4.9	196
188	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
187	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
186	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
185	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
184	High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide. <i>Environmental Science & Technology</i> , 2015 , 49, 13566-74	10.3	183
183	Removal of Persistent Organic Contaminants by Electrochemically Activated Sulfate. <i>Environmental Science & Technology</i> , 2015 , 49, 14326-33	10.3	178
182	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
181	Nitrobenzene removal in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2009 , 43, 8690-5	10.3	174

180	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
179	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
178	Obtaining highly enriched cultures of <i>Candidatus Accumulibacter phosphates</i> through alternating carbon sources. <i>Water Research</i> , 2006 , 40, 3838-48	12.5	169
177	Syntrophic processes drive the conversion of glucose in microbial fuel cell anodes. <i>Environmental Science & Technology</i> , 2008 , 42, 7937-43	10.3	168
176	Effect of free ammonia on the respiration and growth processes of an enriched <i>Nitrobacter</i> culture. <i>Water Research</i> , 2007 , 41, 826-34	12.5	166
175	High current generation coupled to caustic production using a lamellar bioelectrochemical system. <i>Environmental Science & Technology</i> , 2010 , 44, 4315-21	10.3	163
174	Enrichment of denitrifying anaerobic methane oxidizing microorganisms. <i>Environmental Microbiology Reports</i> , 2009 , 1, 377-84	3.7	163
173	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
172	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
171	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
170	Initial development and structure of biofilms on microbial fuel cell anodes. <i>BMC Microbiology</i> , 2010 , 10, 98	4.5	155
169	The inhibitory effects of free nitrous acid on the energy generation and growth processes of an enriched <i>Nitrobacter</i> culture. <i>Environmental Science & Technology</i> , 2006 , 40, 4442-8	10.3	154
168	Microbial fuel cells operating on mixed fatty acids. <i>Bioresource Technology</i> , 2010 , 101, 1233-8	11	153
167	Effect of free ammonia and free nitrous acid concentration on the anabolic and catabolic processes of an enriched <i>Nitrosomonas</i> culture. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 830-9	4.9	153
166	Water engineering. Reducing sewer corrosion through integrated urban water management. <i>Science</i> , 2014 , 345, 812-4	33.3	151
165	Identification and comparison of aerobic and denitrifying polyphosphate-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 140-8	4.9	147
164	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
163	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

162	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
161	Study of factors affecting simultaneous nitrification and denitrification (SND). <i>Water Science and Technology</i> , 1999 , 39, 61-68	2.2	139
160	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
159	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
158	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
157	Determining the fraction of pharmaceutical residues in wastewater originating from a hospital. <i>Water Research</i> , 2010 , 44, 605-15	12.5	134
156	Study of factors affecting simultaneous nitrification and denitrification (SND). <i>Water Science and Technology</i> , 1999 , 39, 61	2.2	133
155	Enrichment of denitrifying glycogen-accumulating organisms in anaerobic/anoxic activated sludge system. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 397-404	4.9	132
154	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
153	Sulfur transformation in rising main sewers receiving nitrate dosage. <i>Water Research</i> , 2009 , 43, 4430-40	12.5	126
152	Microbiology of a nitrite-oxidizing bioreactor. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 1878-83	4.8	126
151	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
150	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
149	Source-separated urine opens golden opportunities for microbial electrochemical technologies. <i>Trends in Biotechnology</i> , 2015 , 33, 214-20	15.1	121
148	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
147	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
146	Variation of bulk properties of anaerobic granules with wastewater type. <i>Water Research</i> , 2001 , 35, 1723-9	12.5	118
145	Phototrophic bacteria for nutrient recovery from domestic wastewater. <i>Water Research</i> , 2014 , 50, 18-26	12.5	115

144	Dynamics and dynamic modelling of H ₂ S production in sewer systems. <i>Water Research</i> , 2008 , 42, 2527-38	2.5	114
143	Electron fluxes in a microbial fuel cell performing carbon and nitrogen removal. <i>Environmental Science & Technology</i> , 2009 , 43, 5144-9	10.3	112
142	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
141	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
140	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
139	Biofilm stratification during simultaneous nitrification and denitrification (SND) at a biocathode. <i>Bioresource Technology</i> , 2011 , 102, 334-41	11	108
138	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
137	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
136	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
135	Spontaneous electrochemical removal of aqueous sulfide. <i>Water Research</i> , 2008 , 42, 4965-75	12.5	103
134	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
133	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
132	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
131	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
130	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
129	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
128	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
127	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

126	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
125	Understanding the properties of aerobic sludge granules as hydrogels. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1483-93	4.9	84
124	Characterisation and removal of recalcitrants in reverse osmosis concentrates from water reclamation plants. <i>Water Research</i> , 2011 , 45, 2415-27	12.5	83
123	Development of a model for assessing methane formation in rising main sewers. <i>Water Research</i> , 2009 , 43, 2874-84	12.5	82
122	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
121	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
120	Impact of nitrate addition on biofilm properties and activities in rising main sewers. <i>Water Research</i> , 2009 , 43, 4225-37	12.5	77
119	Predicting concrete corrosion of sewers using artificial neural network. <i>Water Research</i> , 2016 , 92, 52-60	12.5	76
118	Removal of sulfate from high-strength wastewater by crystallisation. <i>Water Research</i> , 2009 , 43, 762-72	12.5	76
117	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
116	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
115	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. <i>Water Research</i> , 2011 , 45, 5381-8	12.5	71
114	The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014 , 49, 166-74	12.5	69
113	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
112	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
111	Reductive electrochemical remediation of emerging and regulated disinfection byproducts. <i>Water Research</i> , 2012 , 46, 1705-14	12.5	66
110	Electrochemical sulfide removal and recovery from paper mill anaerobic treatment effluent. <i>Water Research</i> , 2010 , 44, 2563-71	12.5	66
109	Detection of anthropogenic gadolinium in treated wastewater in South East Queensland, Australia. <i>Water Research</i> , 2009 , 43, 3534-40	12.5	66

108	Endogenous metabolism of <i>Candidatus Accumulibacter phosphatis</i> under various starvation conditions. <i>Water Research</i> , 2007 , 41, 4646-56	12.5	66
107	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
106	Proposed modifications to metabolic model for glycogen-accumulating organisms under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 277-9	4.9	62
105	Role of sulfur during acetate oxidation in biological anodes. <i>Environmental Science & Technology</i> , 2009 , 43, 3839-45	10.3	61
104	Characterisation of polyhydroxyalkanoate copolymers with controllable four-monomer composition. <i>Journal of Biotechnology</i> , 2008 , 134, 137-45	3.7	61
103	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
102	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
101	Effect of pH on the ageing of reverse osmosis membranes upon exposure to hypochlorite. <i>Desalination</i> , 2013 , 309, 97-105	10.3	59
100	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
99	Wastewater-Enhanced Microbial Corrosion of Concrete Sewers. <i>Environmental Science & Technology</i> , 2016 , 50, 8084-92	10.3	56
98	Stoichiometric and kinetic characterisation of <i>Nitrobacter</i> in mixed culture by decoupling the growth and energy generation processes. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 1176-88	4.9	56
97	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
96	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
95	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
94	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
93	Modern scientific methods and their potential in wastewater science and technology. <i>Water Research</i> , 2002 , 36, 370-93	12.5	53
92	Odor emissions from domestic wastewater: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 1581-1611	11.1	52
91	Electrochemical Abatement of Hydrogen Sulfide From Waste Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1555-1578	11.1	52

90	Identification of controlling factors for the initiation of corrosion of fresh concrete sewers. <i>Water Research</i> , 2015 , 80, 30-40	12.5	51
89	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. <i>Water Research</i> , 2011 , 45, 2281-9	12.5	50
88	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
87	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
86	Bioelectrochemical systems: Microbial versus enzymatic catalysis. <i>Electrochimica Acta</i> , 2012 , 82, 165-174	6.7	47
85	Electrochemical regeneration of sulfur loaded electrodes. <i>Electrochemistry Communications</i> , 2009 , 11, 1437-1440	5.1	47
84	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
83	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
82	A novel bioelectrochemical system for chemical-free permanent treatment of acid mine drainage. <i>Water Research</i> , 2017 , 126, 411-420	12.5	45
81	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
80	Mathematical modelling of prefermenters – Model development and verification. <i>Water Research</i> , 1999 , 33, 2757-2768	12.5	43
79	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
78	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
77	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
76	Biodegradability of DBP precursors after drinking water ozonation. <i>Water Research</i> , 2016 , 106, 550-561	12.5	39
75	Dehalogenation of iodinated X-ray contrast media in a bioelectrochemical system. <i>Environmental Science & Technology</i> , 2011 , 45, 782-8	10.3	39
74	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
73	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

72	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
71	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
70	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
69	Stoichiometric and kinetic characterisation of <i>Nitrosomonas</i> sp. in mixed culture by decoupling the growth and energy generation processes. <i>Journal of Biotechnology</i> , 2006 , 126, 342-56	3.7	34
68	Microscale structure and function of anaerobic-aerobic granules containing glycogen accumulating organisms. <i>FEMS Microbiology Ecology</i> , 2003 , 45, 253-61	4.3	34
67	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
66	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
65	Impact of oxygen mass transfer on nitrification reactions in suspended carrier reactor biofilms. <i>Process Biochemistry</i> , 2009 , 44, 43-53	4.8	32
64	Methanobacterium enables high rate electricity-driven autotrophic sulfate reduction. <i>RSC Advances</i> , 2015 , 5, 89368-89374	3.7	31
63	Enhancing toxic metal removal from acidified sludge with nitrite addition. <i>Environmental Science & Technology</i> , 2015 , 49, 6257-63	10.3	29
62	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
61	Plasma treatment of electrodes significantly enhances the development of anodic electrochemically active biofilms. <i>Electrochimica Acta</i> , 2013 , 108, 566-574	6.7	29
60	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
59	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
58	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
57	A decision support system for selecting sanitation systems in developing countries. <i>Socio-Economic Planning Sciences</i> , 2002 , 36, 267-290	3.7	26
56	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
55	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

54	Analysis of biological wastewater treatment processes using multicomponent gas phase mass balancing. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 361-75	4.9	25
53	Cathodic biofilm activates electrode surface and achieves efficient autotrophic sulfate reduction. <i>Electrochimica Acta</i> , 2016 , 213, 66-74	6.7	23
52	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
51	Determination of external and internal mass transfer limitation in nitrifying microbial aggregates. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 445-57	4.9	22
50	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
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