

# Guo-Ping Sheng

## List of Publications by Citations

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211  
papers

12,528  
citations

58  
h-index

105  
g-index

218  
ext. papers

14,535  
ext. citations

9.4  
avg, IF

6.74  
L-index

#	Paper	IF	Citations
211	Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: a review. <i>Biotechnology Advances</i> , <b>2010</b> , 28, 882-94	17.8	1739
210	Characterization of extracellular polymeric substances of aerobic and anaerobic sludge using three-dimensional excitation and emission matrix fluorescence spectroscopy. <i>Water Research</i> , <b>2006</b> , 40, 1233-9	12.5	523
209	Contribution of extracellular polymeric substances (EPS) to the sludge aggregation. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4355-60	10.3	297
208	FTIR and synchronous fluorescence heterospectral two-dimensional correlation analyses on the binding characteristics of copper onto dissolved organic matter. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2052-8	10.3	264
207	Polyethylenimine modified biochar adsorbent for hexavalent chromium removal from the aqueous solution. <i>Bioresource Technology</i> , <b>2014</b> , 169, 403-408	11	250
206	Thermodynamic analysis on the binding of heavy metals onto extracellular polymeric substances (EPS) of activated sludge. <i>Water Research</i> , <b>2013</b> , 47, 607-14	12.5	230
205	Fouling of proton exchange membrane (PEM) deteriorates the performance of microbial fuel cell. <i>Water Research</i> , <b>2012</b> , 46, 1817-24	12.5	215
204	Roles of extracellular polymeric substances (EPS) in the migration and removal of sulfamethazine in activated sludge system. <i>Water Research</i> , <b>2013</b> , 47, 5298-306	12.5	183
203	Identification of key constituents and structure of the extracellular polymeric substances excreted by <i>Bacillus megaterium</i> TF10 for their flocculation capacity. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1152-7	10.3	181
202	A novel adsorbent TEMPO-mediated oxidized cellulose nanofibrils modified with PEI: Preparation, characterization, and application for Cu(II) removal. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 316, 11-8	12.8	177
201	pH dependence of structure and surface properties of microbial EPS. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 737-44	10.3	171
200	Removal of antibiotic resistance genes from wastewater treatment plant effluent by coagulation. <i>Water Research</i> , <b>2017</b> , 111, 204-212	12.5	167
199	An MEC-MFC-coupled system for biohydrogen production from acetate. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8095-100	10.3	167
198	Physicochemical characteristics of microbial granules. <i>Biotechnology Advances</i> , <b>2009</b> , 27, 1061-1070	17.8	166
197	Extraction of extracellular polymeric substances from the photosynthetic bacterium <i>Rhodospseudomonas acidophila</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 67, 125-30	5.7	165
196	Production of extracellular polymeric substances from <i>Rhodospseudomonas acidophila</i> in the presence of toxic substances. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 69, 216-22	5.7	155
195	Bioelectrochemical Chromium(VI) Removal in Plant-Microbial Fuel Cells. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3882-9	10.3	153

194	Development of a novel bioelectrochemical membrane reactor for wastewater treatment. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9256-61	10.3	146
193	Characterization of extracellular polymeric substances produced by mixed microorganisms in activated sludge with gel-permeating chromatography, excitation-emission matrix fluorescence spectroscopy measurement and kinetic modeling. <i>Water Research</i> , <b>2009</b> , 43, 1350-8	12.5	140
192	Characterization of adsorption properties of extracellular polymeric substances (EPS) extracted from sludge. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2008</b> , 62, 83-90	6	133
191	A microbial fuel cell-membrane bioreactor integrated system for cost-effective wastewater treatment. <i>Applied Energy</i> , <b>2012</b> , 98, 230-235	10.7	132
190	Phosphorus removal in an enhanced biological phosphorus removal process: roles of extracellular polymeric substances. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11482-9	10.3	129
189	Synthesis and characterization of a novel cationic chitosan-based flocculant with a high water-solubility for pulp mill wastewater treatment. <i>Water Research</i> , <b>2009</b> , 43, 5267-75	12.5	129
188	Calcium spatial distribution in aerobic granules and its effects on granule structure, strength and bioactivity. <i>Water Research</i> , <b>2008</b> , 42, 3343-52	12.5	127
187	Nano-structured manganese oxide as a cathodic catalyst for enhanced oxygen reduction in a microbial fuel cell fed with a synthetic wastewater. <i>Water Research</i> , <b>2010</b> , 44, 5298-305	12.5	126
186	Physical and chemical characteristics of granular activated sludge from a sequencing batch airlift reactor. <i>Process Biochemistry</i> , <b>2005</b> , 40, 645-650	4.8	120
185	Microbial and physicochemical characteristics of compact anaerobic ammonium-oxidizing granules in an upflow anaerobic sludge blanket reactor. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2652-64	4.8	116
184	A gold-sputtered carbon paper as an anode for improved electricity generation from a microbial fuel cell inoculated with <i>Shewanella oneidensis</i> MR-1. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 338-43	11.8	116
183	Microbe-assisted sulfide oxidation in the anode of a microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3372-7	10.3	115
182	Stability of sludge flocs under shear conditions: roles of extracellular polymeric substances (EPS). <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 1095-102	4.9	110
181	Fractionating soluble microbial products in the activated sludge process. <i>Water Research</i> , <b>2010</b> , 44, 2292-302	11.9	105
180	Characterizing the extracellular and intracellular fluorescent products of activated sludge in a sequencing batch reactor. <i>Water Research</i> , <b>2008</b> , 42, 3173-81	12.5	101
179	Conductive carbon nanotube hydrogel as a bioanode for enhanced microbial electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8158-64	9.5	100
178	Carbon nanotube/chitosan nanocomposite as a biocompatible biocathode material to enhance the electricity generation of a microbial fuel cell. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1422	35.4	100
177	DLVO approach to the flocculability of a photosynthetic H <sub>2</sub> -producing bacterium, <i>Rhodospseudomonas acidophila</i> . <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4620-5	10.3	95

176	Microbial fuel cell driving electrokinetic remediation of toxic metal contaminated soils. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 9-14	12.8	88
175	In-situ utilization of generated electricity in an electrochemical membrane bioreactor to mitigate membrane fouling. <i>Water Research</i> , <b>2013</b> , 47, 5794-800	12.5	88
174	Manipulating the hydrogen production from acetate in a microbial electrolysis cell-microbial fuel cell-coupled system. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 338-343	8.9	88
173	Anaerobic biodecolorization mechanism of methyl orange by <i>Shewanella oneidensis</i> MR-1. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1769-76	5.7	87
172	A new cathodic electrode deposit with palladium nanoparticles for cost-effective hydrogen production in a microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2773-2776	6.7	87
171	Coagulation kinetics of humic aggregates in mono- and di-valent electrolyte solutions. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5042-9	10.3	81
170	Quantification of the interactions between $Ca^{2+}$ , $Hg^{2+}$ and extracellular polymeric substances (EPS) of sludge. <i>Chemosphere</i> , <b>2013</b> , 93, 1436-41	8.4	80
169	A bio-photoelectrochemical cell with a MoS <sub>3</sub> -modified silicon nanowire photocathode for hydrogen and electricity production. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3033-3039	35.4	75
168	Nitrogen removal from eutrophic water by floating-bed-grown water spinach ( <i>Ipomoea aquatica</i> Forsk.) with ion implantation. <i>Water Research</i> , <b>2007</b> , 41, 3152-8	12.5	75
167	Nitrate formation from atmospheric nitrogen and oxygen photocatalysed by nano-sized titanium dioxide. <i>Nature Communications</i> , <b>2013</b> , 4, 2249	17.4	73
166	Roles of extracellular polymeric substances in enhanced biological phosphorus removal process. <i>Water Research</i> , <b>2015</b> , 86, 85-95	12.5	72
165	Light-induced reduction of silver ions to silver nanoparticles in aquatic environments by microbial extracellular polymeric substances (EPS). <i>Water Research</i> , <b>2016</b> , 106, 242-248	12.5	72
164	Nutrient removal and energy production in a urine treatment process using magnesium ammonium phosphate precipitation and a microbial fuel cell technique. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 1978-84	3.6	69
163	Electricity generation from mixed volatile fatty acids using microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 2365-72	5.7	69
162	Degradation of organic pollutants in a photoelectrocatalytic system enhanced by a microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 5575-80	10.3	68
161	Integration of a microbial fuel cell with activated sludge process for energy-saving wastewater treatment: taking a sequencing batch reactor as an example. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 1260-7	4.9	67
160	Lead toxicity to the performance, viability, and community composition of activated sludge microorganisms. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 824-30	10.3	66
159	Enhanced nitrogen and phosphorus removal from eutrophic lake water by <i>Ipomoea aquatica</i> with low-energy ion implantation. <i>Water Research</i> , <b>2009</b> , 43, 1247-56	12.5	66

158	Characterization of autotrophic and heterotrophic soluble microbial product (SMP) fractions from activated sludge. <i>Water Research</i> , <b>2012</b> , 46, 6210-7	12.5	65
157	Enhanced electricity production from microbial fuel cells with plasma-modified carbon paper anode. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 9966-71	3.6	61
156	A photometric high-throughput method for identification of electrochemically active bacteria using a WO <sub>3</sub> nanocluster probe. <i>Scientific Reports</i> , <b>2013</b> , 3, 1315	4.9	60
155	High-sensitivity infrared attenuated total reflectance sensors for in situ multicomponent detection of volatile organic compounds in water. <i>Nature Protocols</i> , <b>2016</b> , 11, 377-86	18.8	59
154	A white-rot fungus is used as a biocathode to improve electricity production of a microbial fuel cell. <i>Applied Energy</i> , <b>2012</b> , 98, 594-596	10.7	58
153	Microbial communities involved in electricity generation from sulfide oxidation in a microbial fuel cell. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 470-6	11.8	58
152	A novel electrochemical membrane bioreactor as a potential net energy producer for sustainable wastewater treatment. <i>Scientific Reports</i> , <b>2013</b> , 3, 1864	4.9	56
151	Impact of a static magnetic field on the electricity production of <i>Shewanella</i> -inoculated microbial fuel cells. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3987-92	11.8	56
150	Enhancement of methyl orange degradation and power generation in a photoelectrocatalytic microbial fuel cell. <i>Applied Energy</i> , <b>2017</b> , 204, 382-389	10.7	55
149	Complete mineralization of perfluorooctanoic acid (PFOA) by $\gamma$ irradiation in aqueous solution. <i>Scientific Reports</i> , <b>2014</b> , 4, 7418	4.9	55
148	Redox properties of extracellular polymeric substances (EPS) from electroactive bacteria. <i>Scientific Reports</i> , <b>2016</b> , 6, 39098	4.9	55
147	Evaluating the influence of process parameters on soluble microbial products formation using response surface methodology coupled with grey relational analysis. <i>Water Research</i> , <b>2011</b> , 45, 674-80	12.5	54
146	Activating peroxydisulfate with Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> double-shelled nanocages to selectively degrade bisphenol A via a nonradical oxidation process. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119585	21.8	54
145	Hydrogen production in a light-driven photoelectrochemical cell. <i>Applied Energy</i> , <b>2014</b> , 113, 164-168	10.7	53
144	Operation of a sequencing batch reactor for cultivating autotrophic nitrifying granules. <i>Bioresource Technology</i> , <b>2010</b> , 101, 2960-4	11	52
143	FTIR-spectral analysis of two photosynthetic hydrogen-producing [corrected] strains and their extracellular polymeric substances. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 73, 204-10	5.7	52
142	A modeling approach to describe ZVI-based anaerobic system. <i>Water Research</i> , <b>2013</b> , 47, 6007-13	12.5	51
141	An innovative miniature microbial fuel cell fabricated using photolithography. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2841-6	11.8	51

140	Quantification and kinetic characterization of soluble microbial products from municipal wastewater treatment plants. <i>Water Research</i> , <b>2016</b> , 88, 703-710	12.5	50
139	Direct electricity recovery from <i>Canna indica</i> by an air-cathode microbial fuel cell inoculated with rumen microorganisms. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2715-20	10.3	49
138	A novel efficient cationic flocculant prepared through grafting two monomers onto chitosan induced by Gamma radiation. <i>RSC Advances</i> , <b>2012</b> , 2, 494-500	3.7	48
137	Monitoring the restart-up of an upflow anaerobic sludge blanket (UASB) reactor for the treatment of a soybean processing wastewater. <i>Bioresource Technology</i> , <b>2010</b> , 101, 1722-6	11	48
136	Anodic Fenton process assisted by a microbial fuel cell for enhanced degradation of organic pollutants. <i>Water Research</i> , <b>2012</b> , 46, 4371-8	12.5	47
135	A plate-based electrochromic approach for the high-throughput detection of electrochemically active bacteria. <i>Nature Protocols</i> , <b>2014</b> , 9, 112-9	18.8	45
134	Relationship between the extracellular polymeric substances and surface characteristics of <i>Rhodopseudomonas acidophila</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 72, 126-131	5.7	45
133	Tetracycline exposure shifted microbial communities and enriched antibiotic resistance genes in the aerobic granular sludge. <i>Environment International</i> , <b>2019</b> , 130, 104902	12.9	44
132	Fractional characterization of a bio-oil derived from rice husk. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 671-678	5.3	44
131	Quorum quenching is responsible for the underestimated quorum sensing effects in biological wastewater treatment reactors. <i>Bioresource Technology</i> , <b>2014</b> , 171, 472-6	11	43
130	Species of phosphorus in the extracellular polymeric substances of EBPR sludge. <i>Bioresource Technology</i> , <b>2013</b> , 142, 714-8	11	42
129	Filtration behaviors and biocake formation mechanism of mesh filters used in membrane bioreactors. <i>Separation and Purification Technology</i> , <b>2011</b> , 81, 472-479	8.3	42
128	Synthesis of Layered MnO <sub>2</sub> Nanosheets for Enhanced Oxygen Reduction Reaction Catalytic Activity. <i>Electrochimica Acta</i> , <b>2014</b> , 132, 239-243	6.7	41
127	China's wastewater discharge standards in urbanization: evolution, challenges and implications. <i>Environmental Science and Pollution Research</i> , <b>2012</b> , 19, 1422-31	5.1	41
126	Enhanced reductive degradation of methyl orange in a microbial fuel cell through cathode modification with redox mediators. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 201-8	5.7	41
125	Warming increases methylmercury production in an Arctic soil. <i>Environmental Pollution</i> , <b>2016</b> , 214, 504-509	9.9	40
124	A pilot investigation into membrane bioreactor using mesh filter for treating low-strength municipal wastewater. <i>Bioresource Technology</i> , <b>2012</b> , 122, 17-21	11	40
123	Kinetic analysis on the two-step processes of AOB and NOB in aerobic nitrifying granules. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 83, 1159-69	5.7	39

122	Enhanced Photodegradation of Extracellular Antibiotic Resistance Genes by Dissolved Organic Matter Photosensitization. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10732-10740	10.3	37
121	Mitigated membrane fouling and enhanced removal of extracellular antibiotic resistance genes from wastewater effluent via an integrated pre-coagulation and microfiltration process. <i>Water Research</i> , <b>2019</b> , 159, 145-152	12.5	37
120	Experimental and theoretical demonstrations for the mechanism behind enhanced microbial electron transfer by CNT network. <i>Scientific Reports</i> , <b>2014</b> , 4, 3732	4.9	36
119	Superparamagnetic mesoporous ferrite nanocrystal clusters for efficient removal of arsenite from water. <i>CrystEngComm</i> , <b>2013</b> , 15, 7895	3.3	36
118	Denitrification in an integrated bioelectro-photocatalytic system. <i>Water Research</i> , <b>2017</b> , 109, 88-93	12.5	36
117	Advances in the Characterization Methods of Biomass Pyrolysis Products. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 12639-12655	8.3	35
116	Heterotrophs grown on the soluble microbial products (SMP) released by autotrophs are responsible for the nitrogen loss in nitrifying granular sludge. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 2844-52	4.9	35
115	Rapid and accurate determination of VFAs and ethanol in the effluent of an anaerobic H <sub>2</sub> -producing bioreactor using near-infrared spectroscopy. <i>Water Research</i> , <b>2009</b> , 43, 1823-30	12.5	35
114	Robust performance of a novel anaerobic biofilm membrane bioreactor with mesh filter and carbon fiber (ABMBR) for low to high strength wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 56-64	14.7	34
113	Visible-light-enhanced Cr(VI) reduction at Pd-decorated silicon nanowire photocathode in photoelectrocatalytic microbial fuel cell. <i>Science of the Total Environment</i> , <b>2018</b> , 639, 1512-1519	10.2	34
112	Electricity generation and in situ phosphate recovery from enhanced biological phosphorus removal sludge by electro dialysis membrane bioreactor. <i>Bioresource Technology</i> , <b>2018</b> , 247, 471-476	11	33
111	Determination of chlorinated hydrocarbons in water using highly sensitive mid-infrared sensor technology. <i>Scientific Reports</i> , <b>2013</b> , 3, 2525	4.9	33
110	Integration of aerobic granular sludge and mesh filter membrane bioreactor for cost-effective wastewater treatment. <i>Bioresource Technology</i> , <b>2012</b> , 122, 22-6	11	33
109	Calcium effect on the metabolic pathway of phosphorus accumulating organisms in enhanced biological phosphorus removal systems. <i>Water Research</i> , <b>2015</b> , 84, 171-80	12.5	32
108	Chitin degradation and electricity generation by <i>Aeromonas hydrophila</i> in microbial fuel cells. <i>Chemosphere</i> , <b>2017</b> , 168, 293-299	8.4	32
107	Quantifying the surface characteristics and flocculability of <i>Ralstonia eutropha</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 79, 187-94	5.7	32
106	Evaluation on factors influencing the heterotrophic growth on the soluble microbial products of autotrophs. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 804-12	4.9	31
105	Formation of extracellular polymeric substances from acidogenic sludge in H <sub>2</sub> -producing process. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 208-14	5.7	31

104	Photochemical reactions between mercury (Hg) and dissolved organic matter decrease Hg bioavailability and methylation. <i>Environmental Pollution</i> , <b>2017</b> , 220, 1359-1365	9.3	30
103	Anaerobic reduction of 2,6-dinitrotoluene by <i>Shewanella oneidensis</i> MR-1: Roles of Mtr respiratory pathway and NfnB. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 761-768	4.9	29
102	Tracking the activity of the Anammox-DAMO process using excitation-emission matrix (EEM) fluorescence spectroscopy. <i>Water Research</i> , <b>2017</b> , 122, 624-632	12.5	28
101	Stability of sludge flocs under shear conditions. <i>Biochemical Engineering Journal</i> , <b>2008</b> , 38, 302-308	4.2	28
100	Mercury/silver resistance genes and their association with antibiotic resistance genes and microbial community in a municipal wastewater treatment plant. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 1014-1022	10.3	28
99	Kinetics and thermodynamics of interaction between sulfonamide antibiotics and humic acids: Surface plasmon resonance and isothermal titration microcalorimetry analysis. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 302, 262-266	12.8	27
98	Different non-radical oxidation processes of persulfate and peroxymonosulfate activation by nitrogen-doped mesoporous carbon. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2614-2618	8.1	27
97	Determination of autoinducer-2 in biological samples by high-performance liquid chromatography with fluorescence detection using pre-column derivatization. <i>Journal of Chromatography A</i> , <b>2014</b> , 1361, 162-8	4.5	26
96	Photoautotrophic cathodic oxygen reduction catalyzed by a green alga, <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 173-9	4.9	26
95	In-situ biogas sparging enhances the performance of an anaerobic membrane bioreactor (AnMBR) with mesh filter in low-strength wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 6081-9	5.7	26
94	Application of membrane bioreactor for sulfamethazine-contained wastewater treatment. <i>Chemosphere</i> , <b>2018</b> , 193, 840-846	8.4	26
93	Characterizing the interactions between polycyclic aromatic hydrocarbons and fulvic acids in water. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 2220-5	5.1	25
92	Fluorescence spectral characteristics of the supernatants from an anaerobic hydrogen-producing bioreactor. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 217-24	5.7	25
91	Hydrogen production from propionate in a biocatalyzed system with in-situ utilization of the electricity generated from a microbial fuel cell. <i>International Biodeterioration and Biodegradation</i> , <b>2010</b> , 64, 378-382	4.8	25
90	In situ utilization of generated electricity for nutrient recovery in urine treatment using a selective electro dialysis membrane bioreactor. <i>Chemical Engineering Science</i> , <b>2017</b> , 171, 451-458	4.4	24
89	Redox state of microbial extracellular polymeric substances regulates reduction of selenite to elemental selenium accompanying with enhancing microbial detoxification in aquatic environments. <i>Water Research</i> , <b>2020</b> , 172, 115538	12.5	24
88	Phenothiazine derivative-accelerated microbial extracellular electron transfer in bioelectrochemical system. <i>Scientific Reports</i> , <b>2013</b> , 3, 1616	4.9	24
87	Chemical-equilibrium-based model for describing the strength of sludge: taking hydrogen-producing sludge as an example. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 1280-5	10.3	24



86	Insights into the interactions between triclosan (TCS) and extracellular polymeric substance (EPS) of activated sludge. <i>Journal of Environmental Management</i> , <b>2019</b> , 232, 219-225	7.9	24
85	In situ formation of NiCoP@phosphate nanocages as an efficient bifunctional electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , <b>2020</b> , 337, 135799	6.7	23
84	Enhancement of nitrogen and phosphorus removal from eutrophic water by economic plant annual ryegrass ( <i>Lolium multiflorum</i> ) with ion implantation. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 9617-25	5.1	23
83	Novel online monitoring and alert system for anaerobic digestion reactors. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9093-100	10.3	23
82	Determination of proteins and carbohydrates in the effluents from wastewater treatment bioreactors using resonance light-scattering method. <i>Water Research</i> , <b>2008</b> , 42, 3464-72	12.5	23
81	Quantifying the occurrence and transformation potential of extracellular polymeric substances (EPS)-associated antibiotic resistance genes in activated sludge. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124428	12.8	23
80	Photomineralization of Effluent Organic Phosphorus to Orthophosphate under Simulated Light Illumination. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 4997-5004	10.3	22
79	Microbial extracellular polymeric substances (EPS) acted as a potential reservoir in responding to high concentrations of sulfonamides shocks during biological wastewater treatment. <i>Bioresource Technology</i> , <b>2020</b> , 313, 123654	11	22
78	Improving electricity generation and substrate removal of a MFCBBR system through optimization of COD loading distribution. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 85, 15-20	4.2	22
77	Electricity generation from dissolved organic matter in polluted lake water using a microbial fuel cell (MFC). <i>Biochemical Engineering Journal</i> , <b>2013</b> , 71, 57-61	4.2	21
76	Silver nanoparticles formation by extracellular polymeric substances (EPS) from electroactive bacteria. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 8627-33	5.1	20
75	A rapid quantitative method for humic substances determination in natural waters. <i>Analytica Chimica Acta</i> , <b>2007</b> , 592, 162-7	6.6	20
74	Experimental and theoretical approaches for the surface interaction between copper and activated sludge microorganisms at molecular scale. <i>Scientific Reports</i> , <b>2014</b> , 4, 7078	4.9	19
73	Uptake, accumulation and metabolization of 1-butyl-3-methylimidazolium bromide by ryegrass from water: Prospects for phytoremediation. <i>Water Research</i> , <b>2019</b> , 156, 82-91	12.5	18
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