Extraction of extracellular polymers from activated slue

Water Research 30, 1749-1758 DOI: 10.1016/0043-1354(95)00323-1

Citation Report

#	Article	IF	CITATIONS
2	Extraction of extracellular polymeric substances (eps) from biofilms using a cation exchange resin. Water Science and Technology, 1995, 32, 157.	1.2	49
3	Desorption of organic macromolecules from activated sludge: Effect of ionic composition. Water Research, 1997, 31, 1665-1672.	5.3	132
4	Measuring bacterial biomass-COD in wastewater containing particulate matter. Water Research, 1997, 31, 2550-2556.	5.3	45
5	Acetate removal in sewer biofilms under aerobic conditions. Water Research, 1997, 31, 2727-2736.	5.3	27
6	Microbial Fe(III) Reduction in Activated Sludge. Systematic and Applied Microbiology, 1997, 20, 645-651.	1.2	28
7	Cell biomass and exopolymer composition in sewer biofilms. Water Science and Technology, 1998, 37, 17.	1.2	63
8	In situ characterization of substrate uptake by using microautoradiography. Water Science and Technology, 1998, 37, 19.	1.2	22
9	Hydrophobic/hydrophilic properties of activated sludge exopolymeric substances. Water Science and Technology, 1998, 37, 307.	1.2	107
10	Effects of potassium ion on sludge settling, dewatering and effluent properties. Water Science and Technology, 1998, 37, 317.	1.2	30
11	Composition of extracellular polymeric substances in the activated sludge floc matrix. Water Science and Technology, 1998, 37, 325.	1.2	122
12	The relationship between the structure of activated sludge flocs and the sorption of hydrophobic pollutants. Water Science and Technology, 1998, 37, 353.	1.2	14
13	Chemical description of extracellular polymers: implication on activated sludge floc structure. Water Science and Technology, 1998, 38, 45.	1.2	171
14	Disintegration of activated sludge flocs in presence of sulfide. Water Research, 1998, 32, 313-320.	5.3	129
15	Microbial Nitrate-Dependent Oxidation of Ferrous Iron in Activated Sludge. Environmental Science & Technology, 1998, 32, 3556-3561.	4.6	104
16	The effect of cationic salt addition on the settling and dewatering properties of an industrial activated sludge. Water Environment Research, 1998, 70, 984-996.	1.3	49
17	Equilibrium aspects of the effects of shear and solids content on aggregate deflocculation. Advances in Colloid and Interface Science, 1999, 80, 151-182.	7.0	58
18	DNA Extraction from Activated Sludges. Current Microbiology, 1999, 38, 315-319.	1.0	50
19	Comparison of extraction methods for quantifying extracellular polymers in biofilms. Water Science and Technology, 1999, 39, 211.	1.2	155

#	Article	IF	CITATIONS
20	Methods to extract the exopolymeric matrix from biofilms: a comparative study. Water Science and Technology, 1999, 39, 243.	1.2	31
21	Modeling and Simulation of Activated Sludge Process with Cyclic Feeding for Treatment of Highly Loaded Wastewater. Chemical Engineering and Technology, 1999, 22, 50-56.	0.9	6
22	Composition ofpseudomonas putidabiofilms: Accumulation of protein in the biofilm matrix. Biofouling, 1999, 14, 49-57.	0.8	62
23	What are Bacterial Extracellular Polymeric Substances?. , 1999, , 1-19.		250
24	Extraction of EPS. , 1999, , 49-72.		118
25	Studies on the in situ physiology of Thiothrix spp. present in activated sludge. Environmental Microbiology, 2000, 2, 389-398.	1.8	125
26	Influence of microbial activity on the stability of activated sludge flocs. Colloids and Surfaces B: Biointerfaces, 2000, 18, 145-156.	2.5	99
27	Successful and unsuccessful bioaugmentation experiments monitored by fluorescent in situ hybridization. Water Science and Technology, 2000, 41, 61-68.	1.2	49
28	Cohesiveness in biofilm matrix polymers. , 2000, , 87-106.		79
29	Anaerobic deflocculation and aerobic reflocculation of activated sludge. Water Research, 2000, 34, 3933-3942.	5.3	111
30	Activated sludge flocculation: on-line determination of floc size and the effect of shear. Water Research, 2000, 34, 2542-2550.	5.3	297
31	Characterization of Extracellular Polymeric Substances in Rotating Biological Contactors and Activated Sludge Flocs. Environmental Technology (United Kingdom), 2001, 22, 951-959.	1.2	21
32	[25] Isolation and biochemical characterization of extracellular polymeric substances from Pseudomonas aeruginosa. Methods in Enzymology, 2001, 336, 302-314.	0.4	146
33	The biofilm matrix – an immobilized but dynamic microbial environment. Trends in Microbiology, 2001, 9, 222-227.	3.5	1,017
34	Surface properties of sludge and their role in bioflocculation and settleability. Water Research, 2001, 35, 339-350.	5.3	609
35	Comments on "Development of an improved synthetic sludge:. Water Research, 2001, 35, 1363-1364.	5.3	7
36	Variation of bulk properties of anaerobic granules with wastewater type. Water Research, 2001, 35, 1723-1729.	5.3	133
37	Comparison of methods for determination of microbial biomass in wastewater. Water Research, 2001, 35, 1649-1658.	5.3	49

#	Article	IF	CITATIONS
38	Effect of heavy metals (Cu, Pb, and Ni) on the compositions of EPS in biofilms. Water Science and Technology, 2001, 43, 41-48.	1.2	69
39	Enhancement of nitrifying biofilm formation using selected EPS produced by heterotrophic bacteria. Water Science and Technology, 2001, 43, 197-204.	1.2	72
40	Remember the water - a comment on EPS colligative properties. Water Science and Technology, 2001, 43, 17-23.	1.2	73
41	Quantification of the bond energy of bacteria attached to activated sludge floc surfaces. Water Science and Technology, 2001, 43, 67-75.	1.2	33
42	Hydrolysis of wastewater colloidal organic matter by extracellular enzymes extracted from activated sludge flocs. Water Science and Technology, 2001, 43, 33-40.	1.2	70
43	Effect of carbon to nitrogen ratio on the composition of microbial extracellular polymers in activated sludge. Water Science and Technology, 2001, 44, 221-229.	1.2	100
44	A new method for extraction of extracellular polymeric substances from biofilms and activated sludge suitable for direct quantification of sorbed metals. Water Science and Technology, 2001, 43, 25-31.	1.2	60
45	Title is missing!. Biotechnology Letters, 2001, 23, 405-409.	1.1	51
46	Effects of the interactions between glutaraldehyde and the polymeric matrix on the efficacy of the biocide against <i>pseudomonas fluorescens</i> biofilms. Biofouling, 2001, 17, 93-101.	0.8	30
47	Copper Removal to PPB Residuals via Iron Coagulants and Biosolids Storage Conditioning. Journal of Environmental Engineering, ASCE, 2001, 127, 712-723.	0.7	1
48	Discussion of "Review of Two Decades of Experience with TF/SC Process―by D. S. Parker and J. R. Bratby. Journal of Environmental Engineering, ASCE, 2002, 128, 764-766.	0.7	0
49	The Unusual Scent of Toronto Biosolids Investigation of the Causes and Solutions. Proceedings of the Water Environment Federation, 2002, 2002, 1142-1151.	0.0	2
50	A Photoacoustic Technique for Depth-Resolved In Situ Monitoring of Biofilms. Environmental Science & Technology, 2002, 36, 4135-4141.	4.6	27
51	Extraction of extracellular polymeric substances (EPS) of sludges. Journal of Biotechnology, 2002, 95, 249-256.	1.9	954
52	Enumeration of acetate-consuming bacteria by microautoradiography under oxygen and nitrate respiring conditions in activated sludge. Water Research, 2002, 36, 421-428.	5.3	53
53	Examination of three theories for mechanisms of cation-induced bioflocculation. Water Research, 2002, 36, 527-538.	5.3	448
54	Feasibility of using a chlorination step to reduce excess sludge in activated sludge process. Water Research, 2002, 36, 656-666.	5.3	119
55	Evolution of size distribution and transfer of mineral particles between flocs in activated sludges: an insight into floc exchange dynamics. Water Research, 2002, 36, 676-684.	5.3	134

#	Article	IF	CITATIONS
56	Physico-chemical characteristics of full scale sewage sludges with implications to dewatering. Water Research, 2002, 36, 2451-2462.	5.3	437
57	Effects of toxic metals and chemicals on biofilm and biocorrosion. Water Research, 2002, 36, 4709-4716.	5.3	227
58	Key parameters in sludge dewatering: testing for the shear sensitivity and EPS content. Water Science and Technology, 2002, 46, 105-114.	1.2	11
59	Quantification of functional groups in activated sludge by microautoradiography. Water Science and Technology, 2002, 46, 389-395.	1.2	43
60	Community structure of micro- and macroflocs in pin-point sludge and the influence of sludge age and potassium addition on microfloc formation. Water Science and Technology, 2002, 46, 405-412.	1.2	22
61	Characterization of a hydrogen-producing granular sludge. Biotechnology and Bioengineering, 2002, 78, 44-52.	1.7	270
62	Extracellular polymer substances and physicochemical properties of flocs in steady and unsteady-state activated sludge systems. Process Biochemistry, 2002, 37, 983-998.	1.8	157
63	Availability of low and high molecular weight substrates to extracellular enzymes in whole and dispersed activated sludges. Enzyme and Microbial Technology, 2002, 31, 179-186.	1.6	110
64	Enhanced extraction of extracellular polymeric substances from biofilms by alternating current. Biotechnology Letters, 2002, 24, 619-621.	1.1	4
65	Extraction of activated sludge bacteria exopolymers by ultrasonication. Biotechnology Letters, 2003, 25, 1351-1356.	1.1	9
66	Metal immobilisation by biofilms: Mechanisms and analytical tools. Reviews in Environmental Science and Biotechnology, 2003, 2, 9-33.	3.9	205
67	Ca2+ augmentation for enhancement of aerobically grown microbial granules in sludge blanket reactors. Biotechnology Letters, 2003, 25, 95-99.	1.1	134
68	Fatty acids of lipid fractions in extracellular polymeric substances of activated sludge flocs. Lipids, 2003, 38, 1093-1105.	0.7	67
69	Investigation of extracellular polymer substances (EPS) and physicochemical properties of different activated sludge flocs under steady-state conditions. Enzyme and Microbial Technology, 2003, 32, 375-385.	1.6	161
70	Ultrasonic treatment of an aerobic activated sludge in a batch reactor. Chemical Engineering and Processing: Process Intensification, 2003, 42, 965-975.	1.8	130
71	Sludge characteristics and their contribution to microfiltration in submerged membrane bioreactors. Journal of Membrane Science, 2003, 216, 217-227.	4.1	503
72	Solids removal in upflow anaerobic reactors, a review. Bioresource Technology, 2003, 90, 1-9.	4.8	122
73	A comprehensive insight into floc characteristics and their impact on compressibility and settleability of activated sludge. Chemical Engineering Journal, 2003, 95, 221-234.	6.6	313

#	Article	IF	CITATIONS
74	Effect of low ORP in anoxic sludge zone on excess sludge production in oxic-settling-anoxic activated sludge process. Water Research, 2003, 37, 11-20.	5.3	173
75	Activated sludge exopolymers: separation and identification using size exclusion chromatography and infrared micro-spectroscopy. Water Research, 2003, 37, 2388-2393.	5.3	69
76	Characterization of activated sludge flocs by confocal laser scanning microscopy and image analysis. Water Research, 2003, 37, 2043-2052.	5.3	88
77	The influence of key chemical constituents in activated sludge on surface and flocculating properties. Water Research, 2003, 37, 2127-2139.	5.3	515
78	Applications and limitations of the colloid titration method for measuring activated sludge surface charges. Water Research, 2003, 37, 2458-2466.	5.3	66
79	Biofilm in the sediment phase of a sanitary gravity sewer. Water Research, 2003, 37, 2784-2788.	5.3	41
80	Lipase and protease extraction from activated sludge. Water Research, 2003, 37, 3652-3657.	5.3	124
81	The effect of air-induced velocity gradient and dissolved oxygen on bioflocculation in the trickling filter/solids contact process. Journal of Environmental Management, 2003, 7, 441-451.	1.7	8
83	Production of Soluble Microbial Products (SMP) in Anaerobic Chemostats Under Nutrient Deficiency. Journal of Environmental Engineering, ASCE, 2003, 129, 1007-1014.	0.7	56
84	PREDICTING THE DIGESTIBILITY OF WASTE ACTIVATED SLUDGES USING CATION ANALYSIS. Proceedings of the Water Environment Federation, 2003, 2003, 47-69.	0.0	7
85	Compartmentalization of Metals within the Diverse Colloidal Matrices Comprising Activated Sludge Microbial Flocs. Journal of Environmental Quality, 2003, 32, 2100-2108.	1.0	38
86	Relationship between flocculation of activated sludge and composition of extracellular polymeric substances. Water Science and Technology, 2003, 47, 95-103.	1.2	45
87	Oxygen transfer into activated sludge with high MLSS concentrations. Water Science and Technology, 2003, 47, 297-303.	1.2	108
88	Effect of Alum Addition on the Performance of Submerged Membranes for Wastewater Treatment. Water Environment Research, 2004, 76, 2699-2702.	1.3	35
89	The role of carbohydrate and protein parts of extracellular polymeric substances on the dewaterability of biological sludges. Water Science and Technology, 2004, 50, 49-56.	1.2	78
90	Macromolecular composition of unsaturated Pseudomonas aeruginosa biofilms with time and carbon source. Biofilms, 2004, 1, 37-47.	0.6	39
91	Properties of Four Biological Flocs as Related to Settling. Journal of Environmental Engineering, ASCE, 2004, 130, 1289-1300.	0.7	11
92	Case Study II: Application of the Divalent Cation Bridging Theory to Improve Biofloc Properties and Industrial Activated Sludge System Performance-Using Alternatives to Sodium-Based Chemicals. Water Environment Research, 2004, 76, 353-359.	1.3	16

#	Article	IF	CITATIONS
93	MEMBRANE BIOREACTOR (MBR) FOR VOC EMISSION REDUCTION AND WASTEWATER REUSE IN THE CHEMICAL MANUFACTURING INDUSTRY. Proceedings of the Water Environment Federation, 2004, 2004, 254-267.	0.0	2
94	Case Study I: Application of the Divalent Cation Bridging Theory to Improve Biofloc Properties and Industrial Activated Sludge System Performance-direct Addition Of Divalent Cations. Water Environment Research, 2004, 76, 344-352.	1.3	40
95	Role of Bioflocculation on Chemical Oxygen Demand Removal in Solids Contact Chamber of Trickling Filter/Solids Contact Process. Journal of Environmental Engineering, ASCE, 2004, 130, 726-735.	0.7	9
96	Changes in structure, activity and metabolism of aerobic granules as a microbial response to high phenol loading. Applied Microbiology and Biotechnology, 2004, 63, 602-608.	1.7	100
97	The effects of extracellular polymeric substances on the formation and stability of biogranules. Applied Microbiology and Biotechnology, 2004, 65, 143-8.	1.7	389
98	Rapid identification of environmental bacterial strains by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 2013-2019.	0.7	112
99	Preliminary Biomass Characterization in a Sequencing Batch Biofilm Reactor. Annali Di Chimica, 2004, 94, 889-898.	0.6	9
100	Advanced sludge treatment affects extracellular polymeric substances to improve activated sludge dewatering. Journal of Hazardous Materials, 2004, 106, 83-92.	6.5	626
101	Variations in microcolony strength of probe-defined bacteria in activated sludge flocs. FEMS Microbiology Ecology, 2004, 50, 123-132.	1.3	47
102	Impacts of morphological, physical and chemical properties of sludge flocs on dewaterability of activated sludge. Chemical Engineering Journal, 2004, 98, 115-126.	6.6	346
103	Nitrification and sludge characteristics in a submerged membrane bioreactor on synthetic inorganic wastewater. Desalination, 2004, 170, 177-185.	4.0	28
104	Stability of Bacterial Coaggregates in Extreme Environments. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 1423-1434.	0.9	2
105	Characterization and Fate ofN-Nitrosodimethylamine Precursors in Municipal Wastewater Treatment Plants. Environmental Science & Technology, 2004, 38, 1445-1454.	4.6	327
106	Sorption of 17β-Estradiol and 17α-Ethinylestradiol by Colloidal Organic Carbon Derived from Biological Wastewater Treatment Systems. Environmental Science & Technology, 2004, 38, 3322-3329.	4.6	122
107	PHYSICAL, CHEMICAL AND BIOLOGICAL PROPERTIES OF SUBMERGED MEMBRANE BIOREACTOR AND CONVENTIONAL ACTIVATED SLUDGES. Proceedings of the Water Environment Federation, 2004, 2004, 625-642.	0.0	8
108	THE EFFECT OF ORGANIC LOADING ON MEMBRANE FOULING IN A SUBMERGED MEMBRANE BIOREACTOR TREATING MUNICIPAL WASTEWATER. Proceedings of the Water Environment Federation, 2004, 2004, 696-716.	0.0	4
109	Investigating the Structure of Activated Sludge Flocs: Morphologic and Compositional Characterization of Surface and Bulk Components. Proceedings of the Water Environment Federation, 2004, 2004, 664-689.	0.0	0
110	IMPACT OF OPERATIONAL PARAMETERS ON THE REMOVAL OF PARTICULATE COD IN THE ACTIVATED SLUDGE PROCESS. Proceedings of the Water Environment Federation, 2004, 2004, 709-724.	0.0	1

#	Article	IF	CITATIONS
111	Specific Resistance to Filtration of Biomass from Membrane Bioreactor Reactor and Activated Sludge: Effects of Exocellular Polymeric Substances and Dispersed Microorganisms. Water Environment Research, 2005, 77, 187-192.	1.3	42
112	Application of fractal permeation model to investigate membrane fouling in membrane bioreactor. Journal of Membrane Science, 2005, 262, 107-116.	4.1	76
113	Role and variations of supernatant compounds in submerged membrane bioreactor fouling. Desalination, 2005, 179, 95-107.	4.0	100
114	Membrane fouling caused by extracellular polymeric substances during microfiltration processes. Desalination, 2005, 179, 117-124.	4.0	58
115	The activated sludge and microbial substances influences on membrane fouling in submerged membrane bioreactor: unstirred batch cell test. Desalination, 2005, 183, 425-429.	4.0	65
116	IMPACT OF ACTIVATED SLUDGE-DERIVED COLLOIDAL ORGANIC CARBON ON BEHAVIOR OF ESTROGENIC AGONIST RECOMBINANT YEAST BIOASSAY. Environmental Toxicology and Chemistry, 2005, 24, 2717.	2.2	26
117	Alginate acetylation influences initial surface colonization by mucoid Pseudomonas aeruginosa. Microbiological Research, 2005, 160, 165-176.	2.5	87
118	Municipal Wastewater Treatment by Periodic Biofilter without Excess Sludge Production. Annali Di Chimica, 2005, 95, 447-455.	0.6	4
119	Population Structure and Chemical EPS Analyses of Activated Sludge and Scum. Clean - Soil, Air, Water, 2005, 33, 189-196.	0.8	8
120	Measurement of Foam Quality of Activated Sludge in MBR Process. Clean - Soil, Air, Water, 2005, 33, 232-239.	0.8	30
121	Effect of biofiltration on particle characteristics and flocculation behavior. Journal of Chemical Technology and Biotechnology, 2005, 80, 705-711.	1.6	4
123	Extraction of extracellular polymeric substances from the photosynthetic bacterium Rhodopseudomonas acidophila. Applied Microbiology and Biotechnology, 2005, 67, 125-130.	1.7	185
124	Production of extracellular polymeric substances from Rhodopseudomonas acidophila in the presence of toxic substances. Applied Microbiology and Biotechnology, 2005, 69, 216-222.	1.7	180
125	The importance of liquid phase analyses to understand fouling in membrane assisted activated sludge processes—six case studies of different European research groups. Journal of Membrane Science, 2005, 263, 113-126.	4.1	239
126	Metal removal from single and multimetallic equimolar systems by extracellular polymers extracted from activated sludges as evaluated by SMDE polarography. Process Biochemistry, 2005, 40, 661-668.	1.8	17
127	Enzymatic treatment effects on dewaterability of anaerobically digested biosolids-I: performance evaluations. Process Biochemistry, 2005, 40, 2427-2434.	1.8	90
128	Influence of Extracellular Polymeric Substances on Membrane Fouling and Cleaning in a Submerged Membrane Bioreactor. Colloid Journal, 2005, 67, 351-356.	0.5	8
129	Quantitative analysis of biological effect on membrane fouling in submerged membrane bioreactor. Water Science and Technology, 2005, 51, 9-18.	1.2	56

#	Article	IF	CITATIONS
130	Effect of internal recycle rate on the high-strength nitrogen wastewater treatment in the combined UBF/MBR system. Water Science and Technology, 2005, 51, 241-247.	1.2	9
131	Ultraviolet disinfection of sequencing batch reactor effluent: A study of physicochemical properties of microbial floc and disinfection performance. Journal of Environmental Engineering and Science, 2005, 4, S65-S74.	0.3	13
133	organic and inorganic membrane Fouling in the "non-conventional low mlss mbr technology― Proceedings of the Water Environment Federation, 2005, 2005, 4125-4133.	0.0	0
134	METABOLIC FINGERPRINTING - A NEW APPROACH TO IDENTIFY CHANGES IN ACTIVATED SLUDGE PHYSIOLOGY UPON EXPOSURE TO TOXIC COMPOUNDS. Proceedings of the Water Environment Federation, 2005, 2005, 5901-5910.	0.0	0
135	Feasibility of using ultrasonic irradiation to recover active biomass from waste activated sludge. Journal of Biotechnology, 2005, 119, 389-399.	1.9	22
136	Composition and Distribution of Extracellular Polymeric Substances in Aerobic Flocs and Granular Sludge. Applied and Environmental Microbiology, 2005, 71, 1051-1057.	1.4	614
137	Olive Oil Mill Wastewater Purification by Combination of Coagulation- Flocculation and Biological Treatments. Environmental Technology (United Kingdom), 2005, 26, 633-642.	1.2	34
138	Physico-chemical and biological sediment properties determining erosion resistance of contaminated riverine sediments – Temporal and vertical pattern at the Lauffen reservoir/River Neckar, Germany. Limnologica, 2005, 35, 132-144.	0.7	47
139	Membrane bioreactor operation at short solids retention times: performance and biomass characteristics. Water Research, 2005, 39, 981-992.	5.3	183
140	Activated sludge deflocculation under temperature upshifts from 30 to 45°C. Water Research, 2005, 39, 1061-1074.	5.3	41
141	Characterization of activated sludge exopolymers from various origins: A combined size-exclusion chromatography and infrared microscopy study. Water Research, 2005, 39, 3044-3054.	5.3	76
142	Effect of mechanical stress on biofilms challenged by different chemicals. Water Research, 2005, 39, 5142-5152.	5.3	148
143	Membrane Fouling in Pilot-Scale Membrane Bioreactors (MBRs) Treating Municipal Wastewater. Environmental Science & Technology, 2005, 39, 6293-6299.	4.6	262
144	Biofilm Structure and Extracellular Polymeric Substances in Low and High Dissolved Oxygen Membrane Bioreactors. Separation Science and Technology, 2006, 41, 1213-1230.	1.3	65
145	Chemical stress induced by copper: examination of a biofilm system. Water Science and Technology, 2006, 54, 191-199.	1.2	4
146	Microbial Biofilms. , 2006, , 904-937.		40
147	Membrane Fouling of Submerged Membrane Bioreactors:Â Impact of Mean Cell Residence Time and the Contributing Factors. Environmental Science & Technology, 2006, 40, 2706-2713.	4.6	174
148	Molasses as C source for heterotrophic bacteria production on solid fish waste. Aquaculture, 2006, 261, 1239-1248.	1.7	39

#	Article	IF	CITATIONS
149	Effects of extracellular polymeric substances on aerobic granulation in sequencing batch reactors. Chemosphere, 2006, 63, 1728-1735.	4.2	175
150	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. Water Research, 2006, 40, 871-880.	5.3	88
151	Characterization of extracellular polymeric substances of aerobic and anaerobic sludge using three-dimensional excitation and emission matrix fluorescence spectroscopy. Water Research, 2006, 40, 1233-1239.	5.3	629
152	Enzymatic extraction of activated sludge extracellular polymers and implications on bioflocculation. Water Research, 2006, 40, 1359-1366.	5.3	66
153	Factors affecting filtration characteristics in membrane-coupled moving bed biofilm reactor. Water Research, 2006, 40, 1827-1835.	5.3	110
154	The effect of calcium on the membrane biofouling in the membrane bioreactor (MBR). Water Research, 2006, 40, 2756-2764.	5.3	142
155	Comparison of sludge characteristics and performance of a submerged membrane bioreactor and an activated sludge process at high solids retention time. Water Research, 2006, 40, 2405-2415.	5.3	285
156	Effect of solids retention time on structure and characteristics of sludge flocs in sequencing batch reactors. Water Research, 2006, 40, 2583-2591.	5.3	76
157	The potential of producing heterotrophic bacteria biomass on aquaculture waste. Water Research, 2006, 40, 2684-2694.	5.3	49
158	Exopolymeric production by bacterial strains isolated from activated sludge of paper industry. Water Research, 2006, 40, 3115-3122.	5.3	14
159	Characterization of soluble organic matter of waste activated sludge before and after thermal pretreatment. Water Research, 2006, 40, 3725-3736.	5.3	215
160	Cycling of Volatile Organic Sulfur Compounds in Anaerobically Digested Biosolids and its Implications for Odors. Water Environment Research, 2006, 78, 243-252.	1.3	173
161	PRETREATMENT OF BIOSOLIDS BY MULTI-ENZYME MIXTURES LEADS TO DRAMATIC IMPROVEMENTS IN DEWATERABILITY. Proceedings of the Water Environment Federation, 2006, 2006, 392-402.	0.0	1
162	Performance of Continuous Flow Anaerobic Sludge Digesters after Microwave Pretreatment. Proceedings of the Water Environment Federation, 2006, 2006, 526-540.	0.0	7
163	Effect of Secondary Aerobic Digestion on Properties of Anaerobic Digested Biosolids. Proceedings of the Water Environment Federation, 2006, 2006, 6806-6829.	0.0	18
164	The Digestibility of Waste Activated Sludges. Water Environment Research, 2006, 78, 59-68.	1.3	67
165	The Effect of Wastewater Cations on Activated Sludge Characteristics: Effects of Aluminum and Iron in Floc. Water Environment Research, 2006, 78, 31-40.	1.3	85
166	Investigating Activated Sludge Flocs using Microanalytical Techniques: Demonstration of Environmental Scanning Electron Microscopy and Time-of-Flight Secondary Ion Mass Spectrometry for Wastewater Applications, Water Environment Research, 2006, 78, 381-391	1.3	6

# 167	ARTICLE Effect of Biopolymer on the Dewatering Characteristics of Autothermal Thermophilic Aerobic Digestion of Sludges. Water Environment Research, 2006, 78, 305-311.	IF 1.3	CITATIONS
168	Modeling of extracellular polymeric substances and soluble microbial products production in a submerged membrane bioreactor at various SRTs. Water Science and Technology, 2006, 53, 209-216.	1.2	27
169	Kinetic estimation of low excess sludge and extracellular polymeric substance accumulation in a vertical submerged membrane bioreactor (VSMBR). Water Practice and Technology, 2006, 1, .	1.0	1
170	Characterization of fouled membranes from a membrane enhanced biological phosphorus removal system. Water Science and Technology, 2006, 54, 169-176.	1.2	3
171	Enhanced sludge conditioning by enzyme pre-treatment: comparison of laboratory and pilot scale dewatering results. Water Science and Technology, 2006, 54, 33-41.	1.2	40
172	Influence of unsteady membrane bioreactor operation on EPS formation and filtration resistance. Desalination, 2006, 192, 1-9.	4.0	103
173	Performance of a metallic membrane bioreactor treating simulated distillery wastewater at temperatures of 30 to 45°C. Desalination, 2006, 194, 146-155.	4.0	48
174	World's largest municipal membrane bioreactor – fouling characterisation and relation to operating performance. Desalination, 2006, 199, 480-481.	4.0	0
175	Relations between extraction protocols for activated sludge extracellular polymeric substances (EPS) and EPS complexation properties. Enzyme and Microbial Technology, 2006, 38, 237-245.	1.6	362
176	Influence of hydrodynamic shear forces on properties of granular biomass in a sequencing batch biofilter reactor. Biochemical Engineering Journal, 2006, 30, 152-157.	1.8	51
177	Polysaccharide differences between planktonic and biofilm-associated EPS from Pseudomonas fluorescens B52. Colloids and Surfaces B: Biointerfaces, 2006, 52, 123-127.	2.5	57
178	The influence of starvation phase on the properties and the development of aerobic granules. Enzyme and Microbial Technology, 2006, 38, 670-674.	1.6	82
179	Enzyme technology and biological remediation. Enzyme and Microbial Technology, 2006, 38, 291-316.	1.6	158
180	Difference in membrane fouling in membrane bioreactors (MBRs) caused by membrane polymer materials. Journal of Membrane Science, 2006, 280, 911-919.	4.1	149
181	Effect of high salinity on activated sludge characteristics and membrane permeability in an immersed membrane bioreactor. Journal of Membrane Science, 2006, 283, 164-171.	4.1	185
182	A new insight into membrane fouling mechanism during membrane filtration of bulking and normal sludge suspension. Journal of Membrane Science, 2006, 285, 159-165.	4.1	72
183	Factors influencing the production of extracellular polymeric substances by Rhodopseudomonas acidophila. International Biodeterioration and Biodegradation, 2006, 58, 89-93.	1.9	64
184	Effect of powdered activated carbon dosage on retarding membrane fouling in MBR. Separation and Purification Technology, 2006, 52, 154-160.	3.9	113

#	Article	IF	CITATIONS
185	Effect of filamentous bacteria on membrane fouling in submerged membrane bioreactor. Journal of Membrane Science, 2006, 272, 161-168.	4.1	193
186	Influence of aeration on microbial polymers and membrane fouling in submerged membrane bioreactors. Journal of Membrane Science, 2006, 276, 168-177.	4.1	123
187	Mitigated membrane fouling in a vertical submerged membrane bioreactor (VSMBR). Journal of Membrane Science, 2006, 280, 572-581.	4.1	113
188	Factors affecting the membrane performance in submerged membrane bioreactors. Journal of Membrane Science, 2006, 284, 54-66.	4.1	357
189	Fouling in membrane bioreactors used in wastewater treatment. Journal of Membrane Science, 2006, 284, 17-53.	4.1	1,962
190	Relationship between the extracellular polymeric substances and surface characteristics of Rhodopseudomonas acidophila. Applied Microbiology and Biotechnology, 2006, 72, 126-131.	1.7	48
191	FTIR-spectral analysis of two photosynthetic H2-producing strains and their extracellular polymeric substances. Applied Microbiology and Biotechnology, 2006, 73, 204-210.	1.7	65
192	Identification of activated sludge properties affecting membrane fouling in submerged membrane bioreactors. Separation and Purification Technology, 2006, 51, 95-103.	3.9	218
193	Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. Journal of Membrane Science, 2006, 285, 81-89.	4.1	226
194	Effects of extra-cellular polymeric substances on organic pollutants biodegradation kinetics for A-step of adsorption-biodegradation process. Central South University, 2006, 13, 229-233.	0.5	3
195	Stability of sludge flocs under shear conditions: Roles of extracellular polymeric substances (EPS). Biotechnology and Bioengineering, 2006, 93, 1095-1102.	1.7	127
196	The role and significance of extracellular polymers in activated sludge. Part I: Literature review. Clean - Soil, Air, Water, 2006, 34, 411-424.	0.8	111
197	Treating Wet Weather Flows in a Membrane Bioreactor: Changes in Mixed Liquor Properties cannot be Neglected. Proceedings of the Water Environment Federation, 2006, 2006, 1868-1885.	0.0	3
198	Factors Contributing to Trimethylamine Generation from Limed and Polymer Conditioned Sludges. Proceedings of the Water Environment Federation, 2006, 2006, 457-466.	0.0	0
200	Wastewater Treatment by Periodic Biofilter Characterized by Aerobic Granular Biomass. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 1781-1792.	0.9	0
201	A comparative study between thermophilic and mesophilic membrane aerated biofilm reactors. Journal of Environmental Engineering and Science, 2007, 6, 247-252.	0.3	15
202	The Influence of Anaerobic Digestion on Centrifugally Dewatered Biosolids Odors. Proceedings of the Water Environment Federation, 2007, 2007, 979-992.	0.0	3
203	Investigating the Fate of Activated Sludge Extracellular Proteins in Sludge Digestion Using Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis (SDS-PAGE). Proceedings of the Water Environment Federation, 2007, 2007, 1408-1421.	0.0	1

#	Article	IF	CITATIONS
204	Influence of biofilm composition on the resistance to detachment. Water Science and Technology, 2007, 55, 473-480.	1.2	42
205	WATER ENVIRONMENT RESEARCH FOUNDATION (WERF) PHASE 3 BIOSOLIDS ODOR RESEARCH RESULTS, FINDINGS, AND RECOMMENDATIONS FOR CAKE ODOR REDUCTION. Proceedings of the Water Environment Federation, 2007, 2007, 945-964.	0.0	1
206	Effect of Operational Parameters on the Removal of Particulate Chemical Oxygen Demand in the Activated Sludge Process. Water Environment Research, 2007, 79, 984-990.	1.3	20
207	Performance of Anaerobic Waste Activated Sludge Digesters After Microwave Pretreatment. Water Environment Research, 2007, 79, 2265-2273.	1.3	62
208	Biological Solids Reduction Using the Cannibal Process. Water Environment Research, 2007, 79, 2380-2386.	1.3	84
209	A Comparison of the Physical, Chemical, and Biological Properties of Sludges from a Complete-Mix Activated Sludge Reactor and a Submerged Membrane Bioreactor. Water Environment Research, 2007, 79, 320-328.	1.3	30
210	The time scale of shear and its importance to fouling potential in MBRs. Proceedings of the Water Environment Federation, 2007, 2007, 6464-6468.	0.0	0
211	Activated Sludge Inhibition by Chemical Stressors—A Comprehensive Study. Water Environment Research, 2007, 79, 940-951.	1.3	22
212	The Impact of Floc Metals on Conventional and Enhanced Mesophilic Anaerobic Digestion Technologies. Proceedings of the Water Environment Federation, 2007, 2007, 5342-5366.	0.0	0
213	Influence of loosely bound extracellular polymeric substances (EPS) on the flocculation, sedimentation and dewaterability of activated sludge. Water Research, 2007, 41, 1022-1030.	5.3	1,535
214	Influence of mixed liquor properties and aeration intensity on membrane fouling in a submerged membrane bioreactor at high mixed liquor suspended solids concentrations. Water Research, 2007, 41, 947-958.	5.3	121
215	Characterization of activated sludge exocellular polymers using several cation-associated extraction methods. Water Research, 2007, 41, 1679-1688.	5.3	163
216	Influence of biofilms on the movement of colloids in porous media. Implications for colloid facilitated transport in subsurface environments. Water Research, 2007, 41, 2059-2068.	5.3	27
217	The role of extracellular polymeric substances in the toxicity response of activated sludge bacteria to chemical toxins. Water Research, 2007, 41, 4177-4185.	5.3	182
218	Impact of ambient conditions on SMP elimination and rejection in MBRs. Water Research, 2007, 41, 3850-3858.	5.3	158
219	Polymeric compounds in activated sludge supernatant — Characterisation and retention mechanisms at a full-scale municipal membrane bioreactor. Water Research, 2007, 41, 3894-3902.	5.3	102
220	A comparative study of fouling-related properties of sludge from conventional and membrane enhanced biological phosphorus removal processes. Water Research, 2007, 41, 4329-4338.	5.3	73
221	Application of enzymes, sodium tripolyphosphate and cation exchange resin for the release of extracellular polymeric substances from sewage sludge. Journal of Biotechnology, 2007, 130, 274-281.	1.9	27

#	Article	IF	CITATIONS
222	Sediment Dynamics and Pollutant Mobility in Rivers. Environmental Science and Engineering, 2007, , .	0.1	29
223	The effect of hydrodynamic conditions on the phenotype of <i>Pseudomonas fluorescens</i> biofilms. Biofouling, 2007, 23, 249-258.	0.8	103
224	Effect of Rotifers on the Stability of Aerobic Granules. Environmental Technology (United Kingdom), 2007, 28, 235-242.	1.2	3
225	Effects of Variations of Extracellular Polymeric Substances and Soluble Microbial Products on Activated Sludge Properties During Anaerobic Storage. Environmental Technology (United Kingdom), 2007, 28, 529-544.	1.2	12
226	The role of hydrodynamic stress on the phenotypic characteristics of single and binary biofilms of Pseudomonas fluorescens. Water Science and Technology, 2007, 55, 437-445.	1.2	14
227	Strategies for minimizing deflocculation of biosolids due to oxygen disturbances. Water Science and Technology, 2007, 55, 173-180.	1.2	39
228	Textile Filtermedien für den Einsatz in Membranbelebungsanlagen. Chemie-Ingenieur-Technik, 2007, 79, 1945-1950.	0.4	6
229	Rapid formation of hydrogen-producing granules in an anaerobic continuous stirred tank reactor induced by acid incubation. Biotechnology and Bioengineering, 2007, 96, 1040-1050.	1.7	83
230	Heterotrophic bacterial production on solid fish waste: TAN and nitrate as nitrogen source under practical RAS conditions. Bioresource Technology, 2007, 98, 1924-1930.	4.8	19
231	Addition of Al and Fe salts during treatment of paper mill effluents to improve activated sludge settlement characteristics. Bioresource Technology, 2007, 98, 2926-2934.	4.8	77
232	Characteristics of soluble microbial products and extracellular polymeric substances in the membrane bioreactor for water reuse. Desalination, 2007, 202, 90-98.	4.0	135
233	Simultaneous high-strength organic and nitrogen removal with combined anaerobic upflow bed filter and aerobic membrane bioreactor. Desalination, 2007, 202, 114-121.	4.0	53
234	Fouling mechanisms of deflocculated sludge, normal sludge, and bulking sludge in membrane bioreactor. Journal of Membrane Science, 2007, 305, 48-56.	4.1	108
235	Effect of extraction method on EPS from activated sludge: An HPSEC investigation. Journal of Hazardous Materials, 2007, 140, 129-137.	6.5	90
236	Amyloid adhesins are abundant in natural biofilms. Environmental Microbiology, 2007, 9, 3077-3090.	1.8	291
237	Microbial stabilization of riverine sediments by extracellular polymeric substances. Geobiology, 2008, 6, 57-69.	1.1	112
238	The EPS Matrix: The "House of Biofilm Cells― Journal of Bacteriology, 2007, 189, 7945-7947.	1.0	1,379
239	Formation of extracellular polymeric substances from acidogenic sludge in H2-producing process. Applied Microbiology and Biotechnology, 2007, 74, 208-214.	1.7	37

#	Article	IF	CITATIONS
240	Biodegradability of extracellular polymeric substances produced by aerobic granules. Applied Microbiology and Biotechnology, 2007, 74, 462-466.	1.7	72
241	Staining of extracellular polymeric substances and cells in bioaggregates. Applied Microbiology and Biotechnology, 2007, 75, 467-474.	1.7	246
242	Biosynthesis of polyhydroxybutyrate (PHB) and extracellular polymeric substances (EPS) by Ralstonia eutropha ATCC 17699 in batch cultures. Applied Microbiology and Biotechnology, 2007, 75, 871-878.	1.7	78
243	Enzyme activities in activated sludge flocs. Applied Microbiology and Biotechnology, 2007, 77, 605-612.	1.7	82
244	Effect of hydraulic retention time on membrane fouling and biomass characteristics in submerged membrane bioreactors. Bioprocess and Biosystems Engineering, 2007, 30, 359-367.	1.7	138
245	Effects of sludge retention time on membrane fouling and microbial community structure in a membrane bioreactor. Journal of Membrane Science, 2007, 287, 211-218.	4.1	236
246	Improvement of membrane filterability of the mixed liquor in a membrane bioreactor by ozonation. Journal of Membrane Science, 2008, 318, 210-216.	4.1	59
247	A comprehensive study on membrane fouling in submerged membrane bioreactors operated under different aeration intensities. Separation and Purification Technology, 2008, 59, 91-100.	3.9	191
248	Membrane fouling mechanisms in the process of using flat-sheet membrane for simultaneous thickening and digestion of activated sludge. Separation and Purification Technology, 2008, 63, 676-683.	3.9	26
249	Relevance of Polymeric Matrix Enzymes During Biofilm Formation. Microbial Ecology, 2008, 56, 427-436.	1.4	120
250	Microbial characterisation of polyhydroxyalkanoates storing populations selected under different operating conditions using a cell-sorting RT-PCR approach. Applied Microbiology and Biotechnology, 2008, 78, 351-360.	1.7	85
251	Single-culture aerobic granules with Acinetobacter calcoaceticus. Applied Microbiology and Biotechnology, 2008, 78, 551-557.	1.7	47
252	Mass transfer limit of fluorescent dyes during multicolor staining of aerobic granules. Applied Microbiology and Biotechnology, 2008, 78, 907-913.	1.7	12
253	Extraction of extracellular polymeric substances from extreme acidic microbial biofilms. Applied Microbiology and Biotechnology, 2008, 78, 1079-1088.	1.7	52
254	Microbial extracellular polymeric substances: central elements in heavy metal bioremediation. Indian Journal of Microbiology, 2008, 48, 49-64.	1.5	345
255	Influence of extracellular polymeric substances on microbial activity and cell hydrophobicity in biofilms. Journal of Chemical Technology and Biotechnology, 2008, 83, 227-232.	1.6	45
256	Thermogravimetric characteristics of aerobic granules developed at different salinities. Journal of Chemical Technology and Biotechnology, 2008, 83, 359-364.	1.6	4
257	Impact of calcium on the membrane fouling in membrane bioreactors. Journal of Membrane Science, 2008, 314, 134-142.	4.1	77

#	Article	IF	CITATIONS
258	Correlation between extracellular polymeric substances and aerobic biogranulation in membrane bioreactor. Separation and Purification Technology, 2008, 59, 26-33.	3.9	50
259	Extraction of extracellular polymeric substances from aerobic granule with compact interior structure. Journal of Hazardous Materials, 2008, 154, 1120-1126.	6.5	364
260	Sludge characteristics and membrane fouling in full-scale submerged membrane bioreactors. Desalination, 2008, 219, 240-249.	4.0	54
261	Influence of mechanical mixing intensity on a biofilm structure and permeability in a membrane bioreactor. Desalination, 2008, 231, 253-267.	4.0	28
262	Decomposition of EPS on the membrane surface and its influence on the fouling mechanism in MBRs. Desalination, 2008, 231, 150-155.	4.0	18
263	Characterization of adsorption properties of extracellular polymeric substances (EPS) extracted from sludge. Colloids and Surfaces B: Biointerfaces, 2008, 62, 83-90.	2.5	151
264	A high yield multi-method extraction protocol for protein quantification in activated sludge. Bioresource Technology, 2008, 99, 7464-7471.	4.8	52
265	Long-term storage and subsequent reactivation of aerobic granules. Bioresource Technology, 2008, 99, 8304-8309.	4.8	59
266	Impact of protein/carbohydrate ratio in the feed wastewater on the membrane fouling in membrane bioreactors. Journal of Membrane Science, 2008, 324, 142-150.	4.1	115
267	Visualisation and characterisation of biopolymer clusters in a submerged membrane bioreactor. Journal of Membrane Science, 2008, 325, 691-697.	4.1	44
268	The engineering potential of natural benthic bacterial assemblages in terms of the erosion resistance of sediments. FEMS Microbiology Ecology, 2008, 66, 282-294.	1.3	43
269	Physiology and behavior of Pseudomonas fluorescens single and dual strain biofilms under diverse hydrodynamics stresses. International Journal of Food Microbiology, 2008, 128, 309-316.	2.1	37
270	Characterization of the Extracellular Polymeric Substances Produced by <i>Escherichia coli</i> Using Infrared Spectroscopic, Proteomic, and Aggregation Studies. Biomacromolecules, 2008, 9, 686-695.	2.6	188
271	Quantification of lipids and protein in thin biofilms by fluorescence staining. Biofouling, 2008, 24, 241-250.	0.8	15
272	A standardized pre-treatment method of biofilm flocs for fluorescence microscopic characterization. Journal of Microbiological Methods, 2008, 75, 449-456.	0.7	34
273	Influence of mixed liquor recycle ratio and dissolved oxygen on performance of pre-denitrification submerged membrane bioreactors. Water Research, 2008, 42, 1122-1132.	5.3	81
274	Accumulation of biopolymer clusters in a submerged membrane bioreactor and its effect on membrane fouling. Water Research, 2008, 42, 855-862.	5.3	127
275	Extracellular polymeric substances and structural stability of aerobic granule. Water Research, 2008, 42, 1644-1650.	5.3	359

#	Article	IF	CITATIONS
276	Correlation of EPS content in activated sludge at different sludge retention times with membrane fouling phenomena. Water Research, 2008, 42, 1475-1488.	5.3	189
277	The function of cation-binding agents in the enzymatic treatment of municipal sludge. Water Research, 2008, 42, 1555-1562.	5.3	50
278	Protein extraction from activated sludge: An analytical approach. Water Research, 2008, 42, 1867-1878.	5.3	114
279	Microbial community structure in activated sludge floc analysed by fluorescence in situ hybridization and its relation to floc stability. Water Research, 2008, 42, 2300-2308.	5.3	102
280	Quenching effects in the application of multi-channel fluorescence in activated sludge suspended solids. Water Research, 2008, 42, 2449-2456.	5.3	10
281	Adhesion characteristics of nitrifying bacteria in activated sludge. Water Research, 2008, 42, 2814-2826.	5.3	72
282	Complexity of ultrafiltration membrane fouling caused by macromolecular dissolved organic compounds in secondary effluents. Water Research, 2008, 42, 3153-3161.	5.3	73
283	Evaluation of the extracellular proteins in full-scale activated sludges. Water Research, 2008, 42, 3879-3889.	5.3	94
284	Growth, maintenance and product formation of autotrophs in activated sludge: Taking the nitrite-oxidizing bacteria as an example. Water Research, 2008, 42, 4261-4270.	5.3	35
285	Use of silica microspheres having refractive index similar to bacteria for conversion of flow cytometric forward light scatter into biovolume. Water Research, 2008, 42, 3757-3766.	5.3	66
286	Relationship between floc composition and flocculation and settling properties studied at a full scale activated sludge plant. Water Research, 2008, 42, 4404-4418.	5.3	121
287	The effect of extracellular polymers (EPS) on the proton adsorption characteristics of the thermophile Bacillus licheniformis S-86. Chemical Geology, 2008, 247, 1-15.	1.4	68
288	Conditioning of aluminium-based water treatment sludge with Fenton's reagent: Effectiveness and optimising study to improve dewaterability. Chemosphere, 2008, 72, 673-677.	4.2	114
289	Influence of Mechanical Mixing Rates on Sludge Characteristics and Membrane Fouling in MBRs. Separation Science and Technology, 2008, 43, 1826-1838.	1.3	10
290	Aerobic and anaerobic bioprocessing of activated sludge: Floc disintegration by enzymes. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 1528-1535.	0.9	30
291	Application of metaproteomic analysis for studying extracellular polymeric substances (EPS) in activated sludge flocs and their fate in sludge digestion. Water Science and Technology, 2008, 57, 2009-2015.	1.2	18
292	Macromolecular composition and anaerobic degradation of the sludge produced in a sequencing batch reactor. Electronic Journal of Biotechnology, 2008, 11, 0-0.	1.2	3
293	Role of Magnesium in Mitigating Membrane Fouling in Membrane Bioreactors. Proceedings of the Water Environment Federation, 2008, 2008, 6177-6185.	0.0	0

#	Article	IF	CITATIONS
294	Comparison of Biofoulants in BNR-MBR and Conventional MBR (C-MBR) Systems. Proceedings of the Water Environment Federation, 2008, 2008, 6186-6194.	0.0	2
295	The influence of aeration intensity on predation and EPS production in membrane bioreactors. Proceedings of the Water Environment Federation, 2008, 2008, 6258-6261.	0.0	Ο
296	Antagonism between <i>Bacillus cereus</i> and <i>Pseudomonas fluorescens</i> in planktonic systems and in biofilms. Biofouling, 2008, 24, 339-349.	0.8	60
297	A Comparative Study on Aerobic Granular Sludge and Effluent Suspended Solids in a Sequence Batch Reactor. Environmental Engineering Science, 2008, 25, 577-584.	0.8	8
298	Adsorption of Cd(II), Zn(II) by extracellular polymeric substances extracted from waste activated sludge. Water Science and Technology, 2008, 58, 195-200.	1.2	22
299	How does shear affect aggregation in granular sludge sequencing batch reactors? Relations between shear, hydrophobicity, and extracellular polymeric substances. Water Science and Technology, 2008, 58, 267-276.	1.2	26
300	Monitoring of transparent exopolymer particles (TEP) in a membrane bioreactor (MBR) and correlation with other fouling indicators. Water Science and Technology, 2008, 58, 1903-1909.	1.2	74
301	New process for alleviation of membrane fouling of modified hybrid MBR system for advanced domestic wastewater treatment. Water Science and Technology, 2008, 58, 2059-2066.	1.2	2
302	Treatment of Simulated Distillery Wastewater with Thermophilic Membrane Bioreactor. , 2008, , .		2
303	Effects of high salinity wastewater on methanogenic sludge bed systems. Water Science and Technology, 2008, 58, 1963-1970.	1.2	40
304	Impact of dissolved oxygen concentration on membrane filtering resistance and soluble organic matter characteristics in membrane bioreactors. Water Science and Technology, 2008, 57, 161-165.	1.2	8
305	Ultrasonic pre-treatment of biosolid. International Journal of Biotechnology, 2008, 10, 26.	1.2	8
306	Behaviour of bacterial extracellular polymeric substances from activated sludge: a review. International Journal of Environment and Pollution, 2008, 32, 78.	0.2	55
308	The Affects of the Monovalent to Divalent Cation Ratio on Sorption of Estrogens in Biosolids. Proceedings of the Water Environment Federation, 2008, 2008, 4679-4698.	0.0	0
309	Characterization of Lectins and Bacterial Adhesins in Activated Sludge Flocs. Proceedings of the Water Environment Federation, 2008, 2008, 4725-4742.	0.0	0
310	Investigating the Fate of Activated Sludge Extracellular Proteins in Sludge Digestion Using Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis. Water Environment Research, 2008, 80, 2219-2227.	1.3	18
311	The Effect of Short-Term Dissolved Oxygen Transients on Activated Sludge. Water Quality Research Journal of Canada, 2008, 43, 201-210.	1.2	9
312	Evaluation of Different Methods for Extracting Extracellular DNA from the Biofilm Matrix. Applied and Environmental Microbiology, 2009, 75, 5390-5395.	1.4	134

#	Article	IF	CITATIONS
313	Operation of MBR membrane modules used in a decentralised wastewater treatment plant: Field study and comparison of different cleaning strategies. Desalination and Water Treatment, 2009, 9, 181-188.	1.0	3
314	Extraction and Analysis of Extracellular Polymeric Substances: Comparison of Methods and Extracellular Polymeric Substance Levels in <i>Salmonella pullorum</i> SA 1685. Environmental Engineering Science, 2009, 26, 1523-1532.	0.8	57
315	Comparative Characterization of Biosolids from a Membrane Bioreactor and from a Sequencing Batch Reactor. Environmental Engineering Science, 2009, 26, 1001-1008.	0.8	5
316	Pollutants Removal Effect and Membrane Fouling Alleviating by an Improved Submerged Membrane Bioreactor for Domestic Wastewater Treatment. , 2009, , .		0
317	Effect of ultrasound on particle surface charge and filterability during sludge anaerobic digestion. Water Science and Technology, 2009, 60, 2025-2033.	1.2	22
318	Underlying Mechanistic Principles, Performance Evaluation and Proposed Modeling Approach for Selected Waste Activated Sludge Reduction Technologies. Proceedings of the Water Environment Federation, 2009, 2009, 200-214.	0.0	0
319	Enzymes: Production and Extraction. , 2009, , 231-261.		1
320	Breakage and Regrowth of Sludge Flocs by Removal and Readdition of Extracellular Polymeric Substances Fractions. Environmental Engineering Science, 2009, 26, 1533-1540.	0.8	5
321	Widespread Abundance of Functional Bacterial Amyloid in Mycolata and Other Gram-Positive Bacteria. Applied and Environmental Microbiology, 2009, 75, 4101-4110.	1.4	66
322	Enzyme extraction by ultrasound from sludge flocs. Journal of Environmental Sciences, 2009, 21, 204-210.	3.2	49
323	Combined alkaline and ultrasonic pretreatment of sludge before aerobic digestion. Journal of Environmental Sciences, 2009, 21, 279-284.	3.2	106
324	Biofilm structure and its influence on clogging in drip irrigation emitters distributing reclaimed wastewater. Journal of Environmental Sciences, 2009, 21, 834-841.	3.2	72
325	Biodegradation and ecotoxicological assessment of pectin production wastewater. Journal of Environmental Sciences, 2009, 21, 1613-1619.	3.2	11
326	The role of extracellular polymers on <i>Staphylococcus epidermidis</i> biofilm biomass and metabolic activity. Journal of Basic Microbiology, 2009, 49, 363-370.	1.8	32
327	On-line monitoring of PHB production by mixed microbial cultures using respirometry, titrimetry and chemometric modelling. Process Biochemistry, 2009, 44, 419-427.	1.8	9
328	Characterization of foulants in conventional and simultaneous nitrification and denitrification membrane bioreactors. Separation and Purification Technology, 2009, 69, 153-160.	3.9	26
329	Microbial flocculation, a potentially low-cost harvesting technique for marine microalgae for the production of biodiesel. Journal of Applied Phycology, 2009, 21, 559-567.	1.5	238
330	Cultivation of Biogranules in a Continuous Flow Reactor at Low Dissolved Oxygen. Water, Air and Soil Pollution, 2009, 9, 213-221.	0.8	25

#	Article	IF	CITATIONS
331	Microbial Extracellular Polymeric Substances (EPS) in Fresh Water Sediments. Microbial Ecology, 2009, 58, 334-349.	1.4	64
332	The concentration of polysaccharides and proteins in EPS of Pseudomonas putida and Aureobasidum pullulans as revealed by 13C CPMAS NMR spectroscopy. Applied Microbiology and Biotechnology, 2009, 85, 197-206.	1.7	35
333	Comparative studies on membrane fouling between two membrane-based biological nutrient removal systems. Journal of Membrane Science, 2009, 331, 91-99.	4.1	24
334	Fouling mitigation through flocculants and adsorbents addition in membrane bioreactors: Comparing lab and pilot studies. Journal of Membrane Science, 2009, 345, 21-30.	4.1	57
335	Effects of solid concentrations and cross-flow hydrodynamics on microfiltration of anaerobic sludge. Journal of Membrane Science, 2009, 345, 142-147.	4.1	37
336	Floc destruction and its impact on dewatering properties in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Bioresource Technology, 2009, 100, 1937-1942.	4.8	18
337	Fractionation of proteins and carbohydrates of extracellular polymeric substances in a membrane bioreactor system. Bioresource Technology, 2009, 100, 3350-3357.	4.8	93
338	Characteristics of extracellular polymeric substances (EPS) fractions from excess sludges and their effects on bioflocculability. Bioresource Technology, 2009, 100, 3193-3198.	4.8	225
339	Effects of short solids retention time on microbial community in a membrane bioreactor. Bioresource Technology, 2009, 100, 3489-3496.	4.8	92
340	Composition of extracellular polymeric substances influences the autoaggregation capability of hydrogen-producing bacterium Ethanoligenens harbinense. Bioresource Technology, 2009, 100, 5109-5113.	4.8	32
341	Pretreatment of pulp mill secondary sludge for high-rate anaerobic conversion to biogas. Bioresource Technology, 2009, 100, 5729-5735.	4.8	70
342	Evaluation of size exclusion chromatography (SEC) for the characterization of extracellular polymeric substances (EPS) in anaerobic granular sludges. Bioresource Technology, 2009, 100, 6258-6268.	4.8	55
343	Biological hydrogen production in an anaerobic sequencing batch reactor: pH and cyclic duration effects. International Journal of Hydrogen Energy, 2009, 34, 227-234.	3.8	91
344	Flocs surface functionality assessment of sonicated activated sludge in relation with physico-chemical properties. Ultrasonics Sonochemistry, 2009, 16, 488-494.	3.8	53
345	Heavy metals uptake by sonicated activated sludge: Relation with floc surface properties. Journal of Hazardous Materials, 2009, 162, 652-660.	6.5	44
346	Identification of sustainable flux in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Journal of Hazardous Materials, 2009, 162, 1397-1403.	6.5	20
347	Impact of cation concentrations on fouling in membrane bioreactors. Journal of Membrane Science, 2009, 343, 110-118.	4.1	44
348	Spectroscopic study of Zn2+ and Co2+ binding to extracellular polymeric substances (EPS) from aerobic granules. Journal of Colloid and Interface Science, 2009, 335, 11-17.	5.0	131

#	Article	IF	Citations
349	Physical and chemical effects of extracellular polymers (EPS) on Zn adsorption to Bacillus licheniformis S-86. Journal of Colloid and Interface Science, 2009, 337, 381-389.	5.0	58
350	Impact of magnesium on membrane fouling in membrane bioreactors. Separation and Purification Technology, 2009, 67, 319-325.	3.9	39
351	Distribution and transformation of molecular weight of organic matters in membrane bioreactor and conventional activated sludge process. Chemical Engineering Journal, 2009, 150, 396-402.	6.6	60
352	Foulant identification and fouling control with iron oxide adsorption in electrodialysis for the desalination of secondary effluent. Desalination, 2009, 236, 152-159.	4.0	27
353	Influence of a prolonged solid retention time environment on nitrification/denitrification and sludge production in a submerged membrane bioreactor. Desalination, 2009, 245, 28-43.	4.0	35
354	Experimental study of filterability behavior of model extracellular polymeric substance solutions in dead-end membrane filtration. Desalination, 2009, 249, 1380-1384.	4.0	10
355	Sustainable power production in a membrane-less and mediator-less synthetic wastewater microbial fuel cell. Bioresource Technology, 2009, 100, 3252-3260.	4.8	106
356	Comparison between a moving bed membrane bioreactor and a conventional membrane bioreactor on membrane fouling. Bioresource Technology, 2009, 100, 6655-6657.	4.8	48
357	Role of Extracellular Polymeric Substances (EPS) in Biofouling of Reverse Osmosis Membranes. Environmental Science & Technology, 2009, 43, 4393-4398.	4.6	338
358	Occurrence, Source, and Fate of Dissolved Organic Matter (DOM) in a Pilot-Scale Membrane Bioreactor. Environmental Science & Technology, 2009, 43, 8821-8826.	4.6	66
359	Extraction of extracellular polymeric substances from the acidophilic bacterium Acidiphilium 3.2Sup(5). Water Science and Technology, 2009, 59, 1959-1967.	1.2	62
360	Dynamic Existence of Waterborne Pathogens within River Sediment Compartments. Implications for Water Quality Regulatory Affairs. Environmental Science & Technology, 2009, 43, 1737-1743.	4.6	125
361	Bacterial extracellular polymeric substances (EPS) mediate CaCO3 morphology and polymorphism. Chemical Geology, 2009, 262, 138-146.	1.4	121
362	Fate of cadmium in activated sludge after changing its physico-chemical properties by thermal treatment. Chemosphere, 2009, 77, 771-777.	4.2	28
363	Occurrence and composition of extracellular lipids and polysaccharides in a full-scale membrane bioreactor. Water Research, 2009, 43, 97-106.	5.3	45
364	Species association increases biofilm resistance to chemical and mechanical treatments. Water Research, 2009, 43, 229-237.	5.3	133
365	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): Investigations on EPS – Matrix. Water Research, 2009, 43, 63-76.	5.3	185
366	Characterization of pig slurry with reference to flocculation and separation. Water Research, 2009, 43, 773-783.	5.3	82

ARTICLE IF CITATIONS # Characterization of extracellular polymeric substances produced by mixed microorganisms in activated sludge with gel-permeating chromatography, excitationấ€"emission matrix fluorescence 367 5.3 163 spectroscopy measurement and kinetic modeling. Water Research, 2009, 43, 1350-1358. Effect of PAC addition on sludge properties in an MBR treating high strength wastewater. Water 368 5.3 Research, 2009, 43, 1577-1588. Extracellular polymeric substances (EPS) properties and their effects on membrane fouling in a 369 5.3 518 submerged membrane bioreactor. Water Research, 2009, 43, 2504-2512. Impacts of hydrodynamic shear force on nucleation of flocculent sludge in anaerobic reactor. Water 370 Research, 2009, 43, 3029-3036. Sludge properties and their effects on membrane fouling in submerged anaerobic membrane 371 5.3 292 bioreactors (SAnMBRs). Water Research, 2009, 43, 3827-3837. Influence of shear on the production of extracellular polymeric substances in membrane bioreactors. Water Research, 2009, 43, 4305-4315. 5.3 Deposition Kinetics of Extracellular Polymeric Substances (EPS) on Silica in Monovalent and Divalent 373 4.6 68 Salts. Environmental Science & amp; Technology, 2009, 43, 5699-5704. Influence of Extracellular Polymeric Substances (EPS) on Deposition Kinetics of Bacteria. 374 4.6 122 Environmental Science & amp; Technology, 2009, 43, 2308-2314. Characterization, Modeling and Application of Aerobic Granular Sludge for Wastewater Treatment. 376 7 2009, 113, 275-303. Optimising extraction of extracellular polymeric substances (EPS) from benthic diatoms: comparison of the efficiency of six EPS extraction methods. Marine and Freshwater Research, 2009, 60, 1201. Relevance of Cell Wall and Extracellular Matrix Proteins to Staphylococcus Epidermidis Adhesion 378 2 1.4 and Biofilm Formation. Journal of Adhesion Science and Technology, 2009, 23, 1657-1671. Impact of Higher Alginate Expression on Deposition of <i>Pseudomonas aeruginosa</i> in Radial Stagnation Point Flow and Reverse Osmosis Systems. Environmental Science & amp; Technology, 2009, 379 4.6 43, 7376-7383. The effects of different aeration patterns on aerobic granulation. International Journal of 380 0.2 0 Environment and Pollution, 2009, 37, 5. Characteristics of water quality and extracellular polymeric substances in trickling filter system using plastic fiber media. Desalination and Water Treatment, 2009, 2, 128-132. 1.0 Mathematical Modeling of SMP Production in Membrane Bioreactors: Choosing an Appropriate Model 382 0.0 0 Structure. Proceedings of the Water Environment Federation, 2009, 2009, 5644-5657. Characterization of Lectins and Bacterial Adhesins in Activated Sludge Flocs. Water Environment Research, 2009, 81, 755-764. Effect of Oxygen Partial Pressure and Chemical Oxygen Demand Loading on the Biofilm Properties in 384 1.34 Membraneâ€Aerated Bioreactors. Water Environment Research, 2009, 81, 289-297. Changes in Mixed Liquor and Organic Foulant Properties Affect Membrane Fouling for Nonâ€Nitrifying 1.3 and Nitrifying Biological Conditions. Water Environment Research, 2009, 81, 255-264.

#	Article	IF	CITATIONS
386	Characterization of Extracellular Polymeric Substances by Combined Enzyme Hydrolysis and Size Exclusion Chromatography-Infrared Microscopy. Proceedings of the Water Environment Federation, 2009, 2009, 4044-4056.	0.0	0
387	Mechanism and Optimization of the Cannibal Process. Proceedings of the Water Environment Federation, 2009, 2009, 7164-7180.	0.0	1
388	Underlying Mechanistic Principles and Proposed Modeling Approach for Waste Activated Sludge Reduction Technologies. Proceedings of the Water Environment Federation, 2009, 2009, 899-913.	0.0	2
389	Evaluation Methodology Framework for Processes to Reduce Waste Activated Sludge. Proceedings of the Water Environment Federation, 2010, 2010, 4815-4849.	0.0	1
390	The Comparison of Biological Sludge Reduction Processes. Proceedings of the Water Environment Federation, 2010, 2010, 359-371.	0.0	0
391	Influence of temperature variations on the cake resistance and EPS of MBR mixed liquor fractions. Desalination and Water Treatment, 2010, 18, 1-11.	1.0	6
392	Extracellular polymeric substance characteristics and fouling formation mechanisms in submerged membrane bioreactors. Desalination and Water Treatment, 2010, 18, 175-181.	1.0	7
393	Water Infrastructure for Sustainable Communities: China and the World. Water Intelligence Online, 0, 9, .	0.3	2
394	Dynamics in Flocculation and Settling Properties Studied at a Fullâ€5cale Activated Sludge Plant. Water Environment Research, 2010, 82, 155-168.	1.3	15
395	Biological Solids Reduction in Activated Sludge with an Anaerobic Side-Stream Reactor. Proceedings of the Water Environment Federation, 2010, 2010, 3961-3972.	0.0	0
396	Evaulation Methodology Framework for Processes to Reduce Waste Activated Solids. Proceedings of the Water Environment Federation, 2010, 2010, 621-653.	0.0	0
397	Aerobic granule formation in a sequencing batch reactor treating newsprint effluent under low phosphate conditions. Water Science and Technology, 2010, 62, 2571-2578.	1.2	10
398	High flux and antifouling filtration membrane based on non-woven fabric with chitosan coating for membrane bioreactors. Bioresource Technology, 2010, 101, 5469-5474.	4.8	42
399	Extraction of extracellular polymeric substances (EPS) from anaerobic granular sludges: comparison of chemical and physical extraction protocols. Applied Microbiology and Biotechnology, 2010, 85, 1589-1599.	1.7	248
400	Effects of long-term addition of Cu(II) and Ni(II) on the biochemical properties of aerobic granules in sequencing batch reactors. Applied Microbiology and Biotechnology, 2010, 86, 1967-1975.	1.7	43
401	Extracellular polysaccharide (EPS) production by a novel strain of yeast-like fungus Aureobasidium pullulans. Carbohydrate Polymers, 2010, 82, 728-732.	5.1	72
402	Effects of extraction procedures on metal binding properties of extracellular polymeric substances (EPS) from anaerobic granular sludges. Colloids and Surfaces B: Biointerfaces, 2010, 80, 161-168.	2.5	59
403	The impact of deflocculation–reflocculation on fouling in membrane bioreactors. Separation and Purification Technology, 2010, 71, 279-284.	3.9	46

#	Article	IF	CITATIONS
404	A new combined inorganic–organic flocculant (CIOF) as a performance enhancer for aerated submerged membrane bioreactor. Separation and Purification Technology, 2010, 75, 204-209.	3.9	21
405	Membrane fouling in membrane bioreactors—Characterisation, contradictions, cause and cures. Journal of Membrane Science, 2010, 363, 1-28.	4.1	766
406	Surfactantâ€like Properties of Alkaline Extracts from Wastewater Biosolids. Journal of Surfactants and Detergents, 2010, 13, 261-271.	1.0	14
407	A hybrid membrane process for simultaneous thickening and digestion of waste activated sludge. Frontiers of Environmental Science and Engineering in China, 2010, 4, 272-279.	0.8	4
408	Spatial and temporal changes in phosphorus partitioning within a freshwater cyanobacterial mat community. Biogeochemistry, 2010, 101, 323-333.	1.7	26
409	Calcium cation interactions with polysaccharides and proteins in wastewater UF membrane fouling. Membrane Technology, 2010, 2010, 6-12.	0.5	10
410	Effects of ultrasonic pretreatment on sludge dewaterability and extracellular polymeric substances distribution in mesophilic anaerobic digestion. Journal of Environmental Sciences, 2010, 22, 474-480.	3.2	39
411	The pitfalls of protein quantification in wastewater treatment studies. Science of the Total Environment, 2010, 408, 4906-4909.	3.9	15
412	Stereological assessment of extracellular polymeric substances, exo-enzymes, and specific bacterial strains in bioaggregates using fluorescence experiments. Biotechnology Advances, 2010, 28, 255-280.	6.0	77
413	Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: A review. Biotechnology Advances, 2010, 28, 882-894.	6.0	2,305
414	Biochemical characterization of extracellular polymeric substances extracted from an intertidal mudflat using a cation exchange resin. Biochemical Systematics and Ecology, 2010, 38, 917-923.	0.6	21
415	Extraction and structural characteristics of extracellular polymeric substances (EPS), pellets in autotrophic nitrifying biofilm and activated sludge. Chemosphere, 2010, 81, 626-632.	4.2	230
416	Protection against diesel oil toxicity by sodium chloride-induced exopolysaccharides in Acinetobacter sp. strain DR1. Journal of Bioscience and Bioengineering, 2010, 109, 118-123.	1.1	49
417	Changes in pentachlorophenol (PCP) metabolism and physicochemical characteristics by granules responding to different oxygen availability. Environmental Progress and Sustainable Energy, 2010, 29, 307-312.	1.3	7
418	Ultrasonic preâ€ŧreatment of biological sludge: consequences for disintegration, anaerobic biodegradability, and filterability. Journal of Chemical Technology and Biotechnology, 2010, 85, 145-150.	1.6	73
419	Influence of elevated pH shocks on the performance of a submerged anaerobic membrane bioreactor. Process Biochemistry, 2010, 45, 1279-1287.	1.8	107
420	The use of a new mobile phase, with no multivalent cation binding properties, to differentiate extracellular polymeric substances (EPS), by size exclusion chromatography (SEC), from biomass used for wastewater treatment. Process Biochemistry, 2010, 45, 1415-1421.	1.8	15
421	Impact of molecular weight distribution of soluble microbial products on fouling in membrane bioreactors. Separation and Purification Technology, 2010, 73, 391-396.	3.9	36

#	Article	IF	Citations
422	Binding of dicamba to soluble and bound extracellular polymeric substances (EPS) from aerobic activated sludge: A fluorescence quenching study. Journal of Colloid and Interface Science, 2010, 345, 442-447.	5.0	86
423	Characteristics and mechanisms of Cu(II) biosorption by disintegrated aerobic granules. Journal of Hazardous Materials, 2010, 179, 431-437.	6.5	48
424	Cadmium biosorption by ozonized activated sludge: The role of bacterial flocs surface properties and mixed liquor composition. Journal of Hazardous Materials, 2010, 183, 256-263.	6.5	10
425	Evaluation of surface properties of reverse osmosis membranes on the initial biofouling stages under no filtration condition. Journal of Membrane Science, 2010, 351, 112-122.	4.1	112
426	Factors affecting sludge cake formation in a submerged anaerobic membrane bioreactor. Journal of Membrane Science, 2010, 361, 126-134.	4.1	106
427	Membrane fouling propensity of denitrifying organisms. Journal of Membrane Science, 2010, 348, 197-203.	4.1	6
428	Membrane fouling in a fermentative hydrogen producing membrane bioreactor at different organic loading rates. Journal of Membrane Science, 2010, 360, 226-233.	4.1	36
429	Granular biomass structure and population dynamics in Sequencing Batch Biofilter Granular Reactor (SBBGR). Bioresource Technology, 2010, 101, 2152-2158.	4.8	41
430	Hydrolytic enzymes in activated sludge: Extraction of protease and lipase by stirring and ultrasonication. Ultrasonics Sonochemistry, 2010, 17, 923-931.	3.8	47
431	Formation of dynamic membrane in an anaerobic membrane bioreactor for municipal wastewater treatment. Chemical Engineering Journal, 2010, 165, 175-183.	6.6	151
432	Effect of cytostatic drug presence on extracellular polymeric substances formation in municipal wastewater treated by membrane bioreactor. Bioresource Technology, 2010, 101, 518-526.	4.8	49
433	Effect of temperature on intracellular phosphorus absorption and extra-cellular phosphorus removal in EBPR process. Bioresource Technology, 2010, 101, 6265-6268.	4.8	40
434	Alkaline extraction of wastewater activated sludge biosolids. Bioresource Technology, 2010, 101, 6972-6980.	4.8	56
435	The EPS characteristics of sludge in an aerobic granule membrane bioreactor. Bioresource Technology, 2010, 101, 8046-8050.	4.8	80
436	Disintegration of biological sludge: Effect of ozone oxidation and ultrasonic treatment on aerobic digestibility. Bioresource Technology, 2010, 101, 8093-8098.	4.8	49
437	Improving anaerobic biodegradability of biological sludges by Fenton pre-treatment: Effects on single stage and two-stage anaerobic digestion. Desalination, 2010, 251, 58-63.	4.0	76
438	Effect of different extraction methods on bound EPS from MBR sludges. Part I: Influence of extraction methods over three-dimensional EEM fluorescence spectroscopy fingerprint. Desalination, 2010, 261, 19-26.	4.0	106
439	Effect of different extraction methods on bound EPS from MBR sludges. Desalination, 2010, 262, 106-109.	4.0	30

#	Article	IF	CITATIONS
440	TOL plasmid carriage enhances biofilm formation and increases extracellular DNA content in Pseudomonas putida KT2440. FEMS Microbiology Letters, 2010, 312, 84-92.	0.7	36
441	The biofilm matrix. Nature Reviews Microbiology, 2010, 8, 623-633.	13.6	7,296
442	The Role of Biofilm Exopolysaccharides on Biocontrol of Plant Diseases. , 0, , .		6
443	Soluble microbial product (SMP) characterization in bench-scale aerobic and anaerobic CSTRs under different operational conditions. Brazilian Journal of Chemical Engineering, 2010, 27, 101-111.	0.7	27
444	Biofilm Accumulation and Structure in the Flow Path of Drip Emitters Using Reclaimed Wastewater. Transactions of the ASABE, 2010, 53, 751-758.	1.1	26
445	An Investigation for the Key Role of Surfactants in Activated Sludge Dewatering. Journal of Chemical Engineering of Japan, 2010, 43, 238-246.	0.3	10
446	Effect of Copper (II) on the Characteristics of Aerobic Granules. Advanced Materials Research, 2010, 113-116, 71-75.	0.3	4
447	The Application of MBR for the Treatment of Municipal Wastewaters at Short SRT. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
448	Effect of oxygen availability on the removal efficiency and sludge characteristics during pentachlorophenol (PCP) biodegradation in a coupled granular sludge system. Water Science and Technology, 2010, 61, 1885-1893.	1.2	11
449	Effect of ultrasonic and alkaline pretreatment on sludge degradation and electricity generation by microbial fuel cell. Water Science and Technology, 2010, 61, 2915-2921.	1.2	22
450	Biopolymer and Cation Behavior during WAS Digestion with an AnMBR Process and Their Contribution to Membrane Fouling. Proceedings of the Water Environment Federation, 2010, 2010, 1320-1343.	0.0	1
451	Effects of Activated Sludge Reactor and EPS on Anaerobic digestion and Sludge Pretreatment. Proceedings of the Water Environment Federation, 2010, 2010, 348-358.	0.0	1
452	Effects of the hydraulic retention time on the fouling characteristics of an anaerobic membrane bioreactor for treating acidifi ed wastewater. Desalination and Water Treatment, 2010, 18, 251-256.	1.0	22
453	Searching for a universal fouling indicator for membrane bioreactors. Desalination and Water Treatment, 2010, 18, 264-269.	1.0	20
454	Filterability of membrane bioreactor (MBR) sludge: impacts of polyelectrolytes and mixing with conventional activated sludge. Water Science and Technology, 2010, 61, 659-669.	1.2	7
455	Contribution of Extracellular Polymeric Substances (EPS) to the Sludge Aggregation. Environmental Science & Technology, 2010, 44, 4355-4360.	4.6	378
456	Contribution of Extracellular Polymeric Substances on Representative Gram Negative and Gram Positive Bacterial Deposition in Porous Media. Environmental Science & Technology, 2010, 44, 2393-2399.	4.6	55
457	Characterization of Extracellular Polymeric Substances from Acidophilic Microbial Biofilms. Applied and Environmental Microbiology, 2010, 76, 2916-2922.	1.4	239

#	Article	IF	CITATIONS
458	Three-dimensional excitation emission matrix fluorescence spectroscopy and gel-permeating chromatography to characterize extracellular polymeric substances in aerobic granulation. Water Science and Technology, 2010, 61, 2931-2942.	1.2	30
459	Characterization of the Mineral Fraction Associated to Extracellular Polymeric Substances (EPS) in Anaerobic Granular Sludges. Environmental Science & Technology, 2010, 44, 412-418.	4.6	83
460	Activated sludge behaviour in a batch reactor in the presence of antibiotics: study of extracellular polymeric substances. Water Science and Technology, 2010, 61, 3147-3155.	1.2	26
461	Novel insights into sludge dewaterability by fluorescence excitation–emission matrix combined with parallel factor analysis. Water Research, 2010, 44, 797-806.	5.3	177
462	Extracellular polymeric substances (EPS) in upflow anaerobic sludge blanket (UASB) reactors operated under high salinity conditions. Water Research, 2010, 44, 1909-1917.	5.3	141
463	Side-stream membrane bioreactors: Influence of stress generated by hydrodynamics on floc structure, supernatant quality and fouling propensity. Water Research, 2010, 44, 2113-2124.	5.3	37
464	The influence of aeration intensity on predation and EPS production in membrane bioreactors. Water Research, 2010, 44, 2541-2553.	5.3	60
465	Extracellular biological organic matters in microbial fuel cell using sewage sludge as fuel. Water Research, 2010, 44, 2163-2170.	5.3	65
466	Nitrifier characteristics in submerged membrane bioreactors under different sludge retention times. Water Research, 2010, 44, 2823-2830.	5.3	41
467	A chemically enhanced biological process for lowering operative costs and solid residues of industrial recalcitrant wastewater treatment. Water Research, 2010, 44, 3635-3644.	5.3	62
468	Direct quantification of bacterial biomass in influent, effluent and activated sludge of wastewater treatment plants by using flow cytometry. Water Research, 2010, 44, 3807-3818.	5.3	103
469	Role of extracellular polymeric substances in bioflocculation of activated sludge microorganisms under glucose-controlled conditions. Water Research, 2010, 44, 4505-4516.	5.3	396
470	Mechanisms of SMP production in membrane bioreactors: Choosing an appropriate mathematical model structure. Water Research, 2010, 44, 5240-5251.	5.3	31
471	Monitoring of bacterial communities during low temperature thermal treatment of activated sludge combining DNA phylochip and respirometry techniques. Water Research, 2010, 44, 6133-6143.	5.3	22
472	Relationships of activated sludge characteristics to fouling rate and critical flux in membrane bioreactors for wastewater treatment. Chemosphere, 2010, 79, 149-155.	4.2	18
473	Extracellular enzymes affect biofilm formation of mucoid Pseudomonas aeruginosa. Microbiology (United Kingdom), 2010, 156, 2239-2252.	0.7	102
474	Nutrient release from extracted activated sludge cells using the microwave enhanced advanced oxidation process. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 1071-1075.	0.9	7
475	Butanol production from the effluent of hydrogen fermentation. Water Science and Technology, 2011, 63, 1236-1240.	1.2	9

#	Article	IF	CITATIONS
476	Role of EPS in membrane fouling of a submerged anaerobic-anoxic-oxic (A-A-O) membrane bioreactor for municipal wastewater treatment. Desalination and Water Treatment, 2011, 34, 88-93.	1.0	16
477	Floc Volume Effects in Suspensions and Its Relevance for Wastewater Engineering. Environmental Science & Technology, 2011, 45, 8788-8793.	4.6	6
478	The role of alginate in <i>Pseudomonas aeruginosa</i> EPS adherence, viscoelastic properties and cell attachment. Biofouling, 2011, 27, 787-798.	0.8	93
479	The effects of glutaraldehyde on the control of single and dual biofilms of <i>Bacillus cereus </i> and <i>Pseudomonas fluorescens </i> . Biofouling, 2011, 27, 337-346.	0.8	33
480	Persister cells in a biofilm treated with a biocide. Biofouling, 2011, 27, 403-411.	0.8	37
481	Evaluating the influence of process parameters on soluble microbial products formation using response surface methodology coupled with grey relational analysis. Water Research, 2011, 45, 674-680.	5.3	62
482	Effects of temperature and dissolved oxygen on sludge properties and their role in bioflocculation and settling. Water Research, 2011, 45, 509-520.	5.3	115
483	A combined approach for a better understanding of wastewater treatment plants operation: Statistical analysis of monitoring database and sludge physico-chemical characterization. Water Research, 2011, 45, 981-992.	5.3	27
484	Applying an electric field in a built-in zero valent iron–ÂAnaerobic reactor for enhancement of sludge granulation. Water Research, 2011, 45, 1258-1266.	5.3	141
485	Extracellular biological organic matters in sewage sludge during mesophilic digestion at reduced hydraulic retention time. Water Research, 2011, 45, 1472-1480.	5.3	35
486	Reduced membrane fouling in a novel bio-entrapped membrane reactor for treatment of food and beverage processing wastewater. Water Research, 2011, 45, 4269-4278.	5.3	47
487	Reversible and irreversible low-pressure membrane foulants in drinking water treatment: Identification by principal component analysis of fluorescence EEM and mitigation by biofiltration pretreatment. Water Research, 2011, 45, 5161-5170.	5.3	132
488	Sludge quality aspects of full-scale reed bed drainage. Water Research, 2011, 45, 6453-6460.	5.3	17
489	Treatment of Greywater with Shredded-Tire Biofilters and Membrane Bioreactors. , 2011, , .		4
491	Biofilm Extracellular-DNA in 55 <i>Staphylococcus Epidermidis</i> Clinical Isolates from Implant Infections. International Journal of Artificial Organs, 2011, 34, 840-846.	0.7	21
492	Digestion Performance of Various Combinations of Thermophilic and Mesophilic Sludge Digestion Systems. Water Environment Research, 2011, 83, 44-52.	1.3	3
493	Influence of Thermal Extraction of Extracellular Polymeric Substances on Cell Integrity in Activated Sludge and Membrane Bioreactor Samples. Water Environment Research, 2011, 83, 100-106.	1.3	5
494	Effect of Calcium on Movingâ€Bed Biofilm Reactor Biofilms. Water Environment Research, 2011, 83, 220-232.	1.3	20

#	Article	IF	CITATIONS
495	Impact of Substrate Feed Patterns on Solids Reduction by the Cannibalâ,,¢ Process. Proceedings of the Water Environment Federation, 2011, 2011, 660-673.	0.0	1
496	Extracellular DNA is abundant and important for microcolony strength in mixed microbial biofilms. Environmental Microbiology, 2011, 13, 710-721.	1.8	138
497	Bismuth dimercaptopropanol (BisBAL) inhibits formation of multispecies wastewater flocs. Journal of Applied Microbiology, 2011, 110, 1426-1437.	1.4	14
498	Evidence of compositional differences between the extracellular and intracellular DNA of a granular sludge biofilm. Letters in Applied Microbiology, 2011, 53, 1-7.	1.0	10
499	Characterization of membrane biofouling at different operating conditions (flux) in drinking water treatment using confocal laser scanning microscopy (CLSM) and image analysis. Journal of Membrane Science, 2011, 382, 194-201.	4.1	44
500	The acceleration of sludge granulation using the chlamydospores of Phanerochaete sp. HSD. Journal of Hazardous Materials, 2011, 192, 963-969.	6.5	16
501	Gamma ray irradiation for sludge solubilization and biological nitrogen removal. Radiation Physics and Chemistry, 2011, 80, 1386-1390.	1.4	16
502	Impacts of sludge retention time on the performance of submerged membrane bioreactor with the addition of calcium ion. Separation and Purification Technology, 2011, 82, 148-155.	3.9	47
503	Efficacy of natural biocide on control of microbial induced corrosion in oil pipelines mediated by Desulfovibrio vulgaris and Desulfovibrio gigas. Journal of Environmental Sciences, 2011, 23, 1394-1402.	3.2	27
504	Research on characteristics of aerobic granules treating petrochemical wastewater by acclimation and co-metabolism methods. Desalination, 2011, 279, 69-74.	4.0	52
505	Erodibility of cohesive sediment: The importance of sediment properties. Earth-Science Reviews, 2011, 105, 101-120.	4.0	392
506	Influence of extracellular polymeric substances (EPS) on Cd adsorption by bacteria. Environmental Pollution, 2011, 159, 1369-1374.	3.7	181
507	Sorption of Cu(II) and Cd(II) by extracellular polymeric substances (EPS) from Aspergillus fumigatus. International Biodeterioration and Biodegradation, 2011, 65, 1012-1018.	1.9	96
508	Sorption of carbamazepine, 17α-ethinylestradiol, iopromide and trimethoprim to biomass involves interactions with exocellular polymeric substances. Chemosphere, 2011, 82, 917-922.	4.2	45
509	Influences of influent carbon source on extracellular polymeric substances (EPS) and physicochemical properties of activated sludge. Chemosphere, 2011, 84, 1250-1255.	4.2	109
510	Interference by the activated sludge matrix on the analysis of soluble microbial products in wastewater. Chemosphere, 2011, 85, 1139-1145.	4.2	14
511	Application of physico-chemical pretreatment methods to enhance the sludge disintegration and subsequent anaerobic digestion: an up to date review. Reviews in Environmental Science and Biotechnology, 2011, 10, 215-242.	3.9	204
512	Effect of Farnesol on Structure and Composition of Staphylococcus epidermidis Biofilm Matrix. Current Microbiology, 2011, 63, 354-359.	1.0	38

#	Article	IF	CITATIONS
513	Optimizing aeration rates for minimizing membrane fouling and its effect on sludge characteristics in a moving bed membrane bioreactor. Journal of Hazardous Materials, 2011, 186, 1097-1102.	6.5	59
514	Activated sludge characteristics affecting sludge filterability in municipal and industrial MBRs: Unraveling correlations using multi-component regression analysis. Journal of Membrane Science, 2011, 378, 330-338.	4.1	60
515	Contributions of functional groups and extracellular polymeric substances on the biosorption of dyes by aerobic granules. Bioresource Technology, 2011, 102, 805-813.	4.8	61
516	Spatial distributions of biofilm properties and flow pattern in NiiMi process. Bioresource Technology, 2011, 102, 1406-1414.	4.8	13
517	New insights into membrane fouling in a submerged anaerobic membrane bioreactor based on characterization of cake sludge and bulk sludge. Bioresource Technology, 2011, 102, 2373-2379.	4.8	176
518	Characterisation of the mineral fraction in extracellular polymeric substances (EPS) from activated sludges extracted by eight different methods. Bioresource Technology, 2011, 102, 7124-7130.	4.8	36
519	Influence of natural organic matter on the deposition kinetics of extracellular polymeric substances (EPS) on silica. Colloids and Surfaces B: Biointerfaces, 2011, 87, 151-158.	2.5	29
520	Membrane fouling in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Characteristics of membrane foulants and bulk sludge. Process Biochemistry, 2011, 46, 1538-1544.	1.8	91
521	The effect of continuous exposure of copper on the properties and extracellular polymeric substances (EPS) of bulking activated sludge. Environmental Science and Pollution Research, 2011, 18, 1567-1573.	2.7	35
522	Ozone oxidation of biological sludge: Effects on disintegration, anaerobic biodegradability, and filterability. Environmental Progress and Sustainable Energy, 2011, 30, 377-383.	1.3	33
523	Effects of Fenton Preâ€Treatment on Waste Activated Sludge Properties. Clean - Soil, Air, Water, 2011, 39, 626-632.	0.7	29
524	Evaluation on factors influencing the heterotrophic growth on the soluble microbial products of autotrophs. Biotechnology and Bioengineering, 2011, 108, 804-812.	1.7	35
525	Effects of thermal hydrolysis on activated sludge solubilization, surface properties and heavy metals biosorption. Chemical Engineering Journal, 2011, 166, 841-849.	6.6	51
526	Membrane foulants characterization in a membrane bioreactor (MBR) treating hypersaline oily wastewater. Chemical Engineering Journal, 2011, 168, 140-150.	6.6	104
527	Role of extracellular polymeric substances in Cu(II) adsorption on Bacillus subtilis and Pseudomonas putida. Bioresource Technology, 2011, 102, 1137-1141.	4.8	116
528	The effect of acid pretreatment on the anaerobic digestion and dewatering of waste activated sludge. Bioresource Technology, 2011, 102, 4076-4082.	4.8	219
529	Temporal variations of membrane foulants in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Bioresource Technology, 2011, 102, 6863-6869.	4.8	11
530	The perfect slime. Colloids and Surfaces B: Biointerfaces, 2011, 86, 251-259.	2.5	134

#	Article	IF	CITATIONS
531	Low powdered activated carbon concentrations to improve MBR sludge filterability at high salinity and low temperature. Desalination, 2011, 276, 403-407.	4.0	18
532	Degradation and characteristic changes of organic matter in sewage sludge using microbial fuel cell with ultrasound pretreatment. Bioresource Technology, 2011, 102, 272-277.	4.8	67
533	Seasonal variation in the properties of titania photocatalysts produced from Ti-salt flocculated bioresource sludge. Bioresource Technology, 2011, 102, 5545-5549.	4.8	5
534	Effect of low solids retention time and focused pulsed pre-treatment on anaerobic digestion of waste activated sludge. Bioresource Technology, 2011, 102, 2542-2548.	4.8	54
535	Characterization of extracellular polymeric substances (EPS) from phenol degrading aerobic granules. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 645-651.	2.7	32
536	Effect of surface roughness of hollow fiber membranes with gear-shaped structure on membrane fouling by sodium alginate. Journal of Membrane Science, 2011, 366, 389-397.	4.1	69
537	An investigation of the long-term filtration performance of a membrane bioreactor (MBR): The role of specific organic fractions. Journal of Membrane Science, 2011, 372, 102-115.	4.1	53
538	Structure of cake layer in a submerged anaerobic membrane bioreactor. Journal of Membrane Science, 2011, 374, 110-120.	4.1	139
539	pH effects on the adherence and fouling propensity of extracellular polymeric substances in a membrane bioreactor. Journal of Membrane Science, 2011, 378, 186-193.	4.1	59
540	Enhancement of sludge granulation in a zero valence iron packed anaerobic reactor with a hydraulic circulation. Process Biochemistry, 2011, 46, 471-476.	1.8	50
541	Ultrasonic pretreatment of sludge: A review. Ultrasonics Sonochemistry, 2011, 18, 1-18.	3.8	630
542	Role of Fe(III) in Microbial Activity and Extracellular Polymeric Substances. , 2011, , .		1
543	Roles of Two Shewanella oneidensis MR-1 Extracellular Endonucleases. Applied and Environmental Microbiology, 2011, 77, 5342-5351.	1.4	76
544	Characteristics of Extracellular Polymeric Substances (EPS) and Enzymes during the Aerobic/anoxic Digestion of Sewage Sludge after Ultrasonic Pretreatment. Advanced Materials Research, 0, 347-353, 2008-2014.	0.3	2
545	Investigating the mechanism of sludge reduction in activated sludge with an anaerobic side-stream reactor. Water Science and Technology, 2011, 63, 93-99.	1.2	30
546	Multistaged Anaerobic Sludge Digestion Processes. Journal of Environmental Engineering, ASCE, 2011, 137, 746-753.	0.7	15
547	Effect of sludge retention time on sludge properties and membrane fouling of different hydrophobic PTFE membranes. Desalination and Water Treatment, 2011, 30, 105-113.	1.0	8
548	Impact of organic fractions identified by SEC and fluorescence EEM on the hydraulic reversibility of ultrafiltration membrane fouling by secondary effluents. Desalination and Water Treatment, 2011, 29, 73-86.	1.0	32

#	Article	IF	CITATIONS
549	Characteristics of different fractions of microbial flocs and their role in membrane fouling. Water Science and Technology, 2011, 63, 262-269.	1.2	50
550	A real trial of a long-term non-fouling membrane bioreactor for saline sewage treatment. Water Science and Technology, 2011, 63, 1519-1523.	1.2	2
551	Ozonation of endogenous residue and active biomass from a synthetic activated sludge. Water Science and Technology, 2011, 63, 297-302.	1.2	10
552	Comparison of extracellular polymeric substances (EPS) extraction from two different activated sludges. Water Science and Technology, 2012, 66, 1558-1564.	1.2	18
553	Anaerobic and Aerobic Transformations Affecting Stability of Dewatered Sludge during Longâ€Term Storage in a Lagoon. Water Environment Research, 2012, 84, 17-24.	1.3	5
554	Effects of extracellular polymeric substances on granulation of anoxic sludge in sequencing batch reactor. Water Science and Technology, 2012, 66, 543-548.	1.2	0
555	Membrane Processes for Greywater and Rainwater Treatment. , 2012, , 382-412.		0
556	Toward a Reliable and Generic Applicable Soluble Microbial Polymer Extraction Protocol. Environmental Engineering Science, 2012, 29, 174-179.	0.8	5
557	Effect of Pharmaceuticals on the Performance of a Novel Osmotic Membrane Bioreactor (OMBR). Separation Science and Technology, 2012, 47, 543-554.	1.3	55
558	Biosorption properties of extracellular polymeric substances towards Zn(II) and Cu(II). Desalination and Water Treatment, 2012, 45, 40-47.	1.0	13
559	Membrane Fouling in MBRs: Mechanisms and Control. , 2012, , 96-139.		0
560	Investigation of a new anaerobic side-stream reactor (ASSR) process for sludge reduction in biological wastewater treatment. Proceedings of the Water Environment Federation, 2012, 2012, 1235-1248.	0.0	2
561	Comparison of COD and Toxicity Removal during Activated Sludge and MBBR Treatment of Kraft Pulp Mill Effluent. Proceedings of the Water Environment Federation, 2012, 2012, 3959-3969.	0.0	0
562	Monthly variation of activated sludge extracellular polymeric substances and their correlation with the removal of anthropogenic micropollutants. Proceedings of the Water Environment Federation, 2012, 2012, 3852-3862.	0.0	0
563	Impact of calcium-to-magnesium ratio on the performance of submerged membrane bioreactors. Desalination and Water Treatment, 2012, 49, 181-188.	1.0	1
564	Combined effects of flow rate and light on characteristics of biofilms grown on three-dimensional elastic carriers. Desalination and Water Treatment, 2012, 45, 241-249.	1.0	2
565	Impact of temperature on raw wastewater composition and activated sludge filterability in full-scale MBR systems for municipal sewage treatment. Journal of Membrane Science, 2012, 423-424, 348-361.	4.1	89
566	Impacts of biogenic structures on benthic assemblages: microbes, meiofauna, macrofauna and related ecosystem functions. Marine Ecology - Progress Series, 2012, 465, 85-97.	0.9	40

#	Article	IF	CITATIONS
567	Fouling characteristics of a novel rotating tubular membrane bioreactor. Chemical Engineering and Processing: Process Intensification, 2012, 62, 39-46.	1.8	35
568	Structural, physicochemical and microbial properties of flocs and biofilms in integrated fixed-film activated sludge (IFFAS) systems. Water Research, 2012, 46, 5085-5101.	5.3	114
569	Further examination of polysaccharides causing membrane fouling in membrane bioreactors (MBRs): Application of lectin affinity chromatography and MALDI-TOF/MS. Water Research, 2012, 46, 5725-5734.	5.3	50
571	Study of the Correlations Between Filtration Variables, Sludge Properties and Operational Conditions Via Statistical Analysisin a MBR Pilot Plant. Procedia Engineering, 2012, 44, 823-825.	1.2	Ο
572	REMOVED: Bioflocculation of Sewage in High Loaded Membrane Bioreactors. Procedia Engineering, 2012, 44, 793-795.	1.2	0
573	Role of microorganism growth phase in the accumulation and characteristics of biomacromolecules (BMM) in a membrane bioreactor. RSC Advances, 2012, 2, 453-460.	1.7	14
574	The influence of operating conditions on the filtration behavior of actual extracellular polymeric substances (EPS) using dead-end membrane filtration cell. Desalination and Water Treatment, 2012, 44, 52-59.	1.0	5
575	Microbial community structure stability, a key parameter in monitoring the development of constructed wetland mesocosms during start-up. Research in Microbiology, 2012, 163, 28-35.	1.0	41
576	Selection of effective methods for extracting extracellular polymeric substances (EPSs) from Bacillus megaterium TF10. Separation and Purification Technology, 2012, 95, 216-221.	3.9	47
577	Characterization of the heterotrophic biomass and the endogenous residue of activated sludge. Water Research, 2012, 46, 653-668.	5.3	33
578	Effects of increase modes of shear force on granule disruption in upflow anaerobic reactors. Water Research, 2012, 46, 3189-3196.	5.3	25
579	Electricity assisted anaerobic treatment of salinity wastewater and its effects on microbial communities. Water Research, 2012, 46, 3535-3543.	5.3	87
580	Compression dewatering of municipal activated sludge: Effects of salt and pH. Water Research, 2012, 46, 4448-4456.	5.3	204
581	Fractional, biodegradable and spectral characteristics of extracted and fractionated sludge extracellular polymeric substances. Water Research, 2012, 46, 4387-4396.	5.3	41
582	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 116, 259-265.	4.8	225
583	Stable operation during pilot-scale anaerobic digestion of nutrient-supplemented maize/sugar beet silage. Bioresource Technology, 2012, 118, 445-454.	4.8	34
584	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 119, 7-14.	4.8	158
585	A novel integrated approach to quantitatively evaluate the efficiency of extracellular polymeric substances (EPS) extraction process. Applied Microbiology and Biotechnology, 2012, 96, 1577-1585.	1.7	29

#	Article	IF	CITATIONS
586	The presence and role of bacterial quorum sensing in activated sludge. Microbial Biotechnology, 2012, 5, 621-633.	2.0	106
587	Identification of Proteins Associated with the <i>Pseudomonas aeruginosa</i> Biofilm Extracellular Matrix. Journal of Proteome Research, 2012, 11, 4906-4915.	1.8	198
588	Influence of Bacterial Extracellular Polymeric Substances on the Formation of Carbonaceous and Nitrogenous Disinfection Byproducts. Environmental Science & Technology, 2012, 46, 11361-11369.	4.6	63
589	Surface adhesion of microphytobenthic biofilms is enhanced under Hediste diversicolor (O.F. Müller) trophic pressure. Journal of Experimental Marine Biology and Ecology, 2012, 438, 52-60.	0.7	13
590	The role of EPS concentration on membrane fouling control: Comparison analysis of hybrid membrane bioreactor and conventional membrane bioreactor. Desalination, 2012, 305, 38-43.	4.0	68
591	Microfiltration performance with two-phase flow. Separation and Purification Technology, 2012, 98, 165-173.	3.9	4
592	Influence of temperature and temperature shock on sludge properties, cake layer structure, and membrane fouling in a submerged anaerobic membrane bioreactor. Journal of Membrane Science, 2012, 421-422, 131-144.	4.1	58
593	Microbial Products of Activated Sludge in Biological Wastewater Treatment Systems: A Critical Reviews in Environmental Science and Technology, 2012, 42, 187-223.	6.6	67
594	SMP production by activated sludge in the presence of a metabolic uncoupler, 3,3′,4′,5-tetrachlorosalicylanilide (TCS). Applied Microbiology and Biotechnology, 2012, 95, 1313-1321.	1.7	32
595	Organic Fouling of Ultrafiltration Membrane: Detailed Characterization by Liquid Chromatography with Organic Carbon Detector (LC-OCD). Separation Science and Technology, 2012, 48, 199-207.	1.3	15
596	Comparison and Analysis of Membrane Fouling between Flocculent Sludge Membrane Bioreactor and Granular Sludge Membrane Bioreactor. PLoS ONE, 2012, 7, e40819.	1.1	12
597	Effects of Experimental Conditions on Extraction Yield of Extracellular Polymeric Substances by Cation Exchange Resin. Scientific World Journal, The, 2012, 2012, 1-6.	0.8	6
598	Enzyme research and applications in biotechnological intensification of biogas production. Critical Reviews in Biotechnology, 2012, 32, 172-186.	5.1	159
599	Dissolved organic matters transformation and sludge characteristics in zeoliteâ€enhanced contactâ€adsorption regenerationâ€stabilization process. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 396-405.	0.8	1
601	Wood Adhesives Based on Alkaline Extracts from Wastewater Biosolids and Mustard Protein. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1315-1323.	0.8	5
602	Extracellular Polymeric Substances (EPS) from Aerobic Granular Sludges: Extraction, Fractionation, and Anionic Properties. Applied Biochemistry and Biotechnology, 2012, 166, 1685-1702.	1.4	34
603	Step-by-step strategy for protein enrichment and proteome characterisation of extracellular polymeric substances in wastewater treatment systems. Applied Microbiology and Biotechnology, 2012, 95, 767-776.	1.7	30
604	Insights into membrane fouling of submerged membrane bioreactors by characterizing different fouling layers formed on membrane surfaces. Chemical Engineering Journal, 2012, 179, 169-177.	6.6	59

#	Article	IF	CITATIONS
605	Influence of organic loading rate on the performance of ultrafiltration and microfiltration membrane bioreactors at high sludge retention time. Chemical Engineering Journal, 2012, 181-182, 132-143.	6.6	32
606	Influence of humic acid on the transport behavior of bacteria in quartz sand. Colloids and Surfaces B: Biointerfaces, 2012, 91, 122-129.	2.5	78
607	Determination of main components in the extracellular polymeric substances extracted from activated sludge using a spectral probing method. Colloids and Surfaces B: Biointerfaces, 2012, 94, 151-156.	2.5	8
608	Influences of sludge retention time on the performance of submerged membrane bioreactors with the addition of iron ion. Desalination, 2012, 296, 24-29.	4.0	25
609	An anaerobic reactor packed with a pair of Fe-graphite plate electrodes for bioaugmentation of azo dye wastewater treatment. Biochemical Engineering Journal, 2012, 63, 31-37.	1.8	49
610	Stable limited filamentous bulking through keeping the competition between floc-formers and filaments in balance. Bioresource Technology, 2012, 103, 7-15.	4.8	46
611	Effect of powdered activated carbon (PAC) and cationic polymer on biofouling mitigation in hybrid MBRs. Bioresource Technology, 2012, 113, 165-168.	4.8	52
612	Influence of biofilm carriers on membrane fouling propensity in moving biofilm membrane bioreactor. Bioresource Technology, 2012, 113, 161-164.	4.8	48
613	Enhanced aerobic nitrifying granulation by static magnetic field. Bioresource Technology, 2012, 110, 105-110.	4.8	78
614	Performance of halophilic marine bacteria inocula on nutrient removal from hypersaline wastewater in an intermittently aerated biological filter. Bioresource Technology, 2012, 113, 280-287.	4.8	51
615	Effects of extraction methods on the composition and molar mass distributions of exopolymeric substances of the bacterium Sinorhizobium meliloti. Bioresource Technology, 2012, 114, 603-609.	4.8	32
616	The influence of nonconjugative Escherichia coli plasmids on biofilm formation and resistance. Journal of Applied Microbiology, 2012, 113, 373-382.	1.4	42
617	Extraction and purification of hydrolytic enzymes from activated sludge. Resources, Conservation and Recycling, 2012, 59, 9-13.	5.3	30
618	Characteristics of foulants in air-sparged side-stream tubular membranes used in a municipal wastewater membrane bioreactor. Separation and Purification Technology, 2012, 93, 83-91.	3.9	14
619	Influence of activated sludge properties on flux behavior in osmosis membrane bioreactor (OMBR). Journal of Membrane Science, 2012, 390-391, 270-276.	4.1	51
620	Effects of potassium ferrate on extracellular polymeric substances (EPS) and physicochemical properties of excess activated sludge. Journal of Hazardous Materials, 2012, 199-200, 158-163.	6.5	108
621	The biological treatment of high salinity synthetic oilfield produced water in a submerged membrane bioreactor using a halophilic bacterial consortium. Journal of Chemical Technology and Biotechnology, 2013, 88, 2016-2026.	1.6	28
622	Effect of growth phase on harvesting characteristics, autoflocculation and lipid content of Ettlia texensis for microalgal biodiesel production. Bioresource Technology, 2013, 138, 214-221.	4.8	58

#	Article	IF	CITATIONS
623	Mathematical modelling of filtration in submerged anaerobic MBRs (SAnMBRs): Long-term validation. Journal of Membrane Science, 2013, 446, 303-309.	4.1	17
624	Potential Foulants and Fouling Indicators in MBRs: A Critical Review. Separation Science and Technology, 2013, 48, 22-50.	1.3	52
625	A simple method for quantifying biomass cell and polymer distribution in biofilms. Journal of Microbiological Methods, 2013, 94, 367-374.	0.7	20
626	Biosorption properties of Cd(II), Pb(II), and Cu(II) of extracellular polymeric substances (EPS) extracted from Aspergillus fumigatus and determined by polarographic method. Environmental Monitoring and Assessment, 2013, 185, 6713-6718.	1.3	21
627	A new insight into membrane fouling mechanism in submerged membrane bioreactor: Osmotic pressure during cake layer filtration. Water Research, 2013, 47, 2777-2786.	5.3	117
628	The treatment of pharmaceutical wastewater using in a submerged membrane bioreactor under different sludge retention times. Journal of Membrane Science, 2013, 442, 72-82.	4.1	59
629	Coupled interactions between metals and bacterial biofilms in porous media: Implications for biofilm stability, fluid flow and metal transport. Chemical Geology, 2013, 337-338, 20-29.	1.4	33
630	Biofouling Control with Bead-Entrapped Quorum Quenching Bacteria in Membrane Bioreactors: Physical and Biological Effects. Environmental Science & Technology, 2013, 47, 836-842.	4.6	207
631	Initial transport and retention behaviors of ZnO nanoparticles in quartz sand porous media coated with Escherichia coli biofilm. Environmental Pollution, 2013, 174, 38-49.	3.7	63
632	Thermodynamic analysis of membrane fouling in a submerged membrane bioreactor and its implications. Bioresource Technology, 2013, 146, 7-14.	4.8	83
633	Characterization of extracellular polymeric substances (EPS) from periphyton using liquid chromatography-organic carbon detection–organic nitrogen detection (LC-OCD-OND). Environmental Science and Pollution Research, 2013, 20, 3214-3223.	2.7	64
634	Innovative combination of electrolysis and Fe(II)-activated persulfate oxidation for improving the dewaterability of waste activated sludge. Bioresource Technology, 2013, 136, 654-663.	4.8	187
635	Characterization of dissolved organic matter in a dynamic membrane bioreactor for wastewater treatment. Science Bulletin, 2013, 58, 1717-1724.	1.7	10
636	Improved bioproduction of short-chain fatty acids from waste activated sludge by perennial ryegrass addition. Water Research, 2013, 47, 4576-4584.	5.3	56
637	Monitoring of slaughterhouse wastewater biodegradation in a SBR using fluorescence and UV–Visible absorbance. Chemosphere, 2013, 91, 648-655.	4.2	33
638	Start-up of the anammox process and membrane fouling analysis in a novel rotating membrane bioreactor. Desalination, 2013, 311, 46-53.	4.0	49
639	Psychrophilic anaerobic membrane bioreactor treatment of domestic wastewater. Water Research, 2013, 47, 1655-1665.	5.3	249
640	Effects of solution conditions on the physicochemical properties of stratification components of extracellular polymeric substances in anaerobic digested sludge. Journal of Environmental Sciences, 2013, 25, 155-162.	3.2	17

#	Article	IF	CITATIONS
641	Fouling characterization and nitrogen removal in a batch granulation membrane bioreactor. International Biodeterioration and Biodegradation, 2013, 85, 491-498.	1.9	22
642	Inhibitory effects of a shock load of Fe(II)-mediated persulfate oxidation on waste activated sludge anaerobic digestion. Chemical Engineering Journal, 2013, 233, 274-281.	6.6	36
643	Staphylococcus epidermidis with the icaAâ^' /icaDâ^' /IS256 â^' genotype and protein or protein/extracellular-DNA biofilm is frequent in ocular infections. Journal of Medical Microbiology, 2013, 62, 1579-1587.	0.7	34
644	Filtration properties of activated sludge in municipal MBR wastewater treatment plants are related to microbial community structure. Water Research, 2013, 47, 6719-6730.	5.3	25
645	Phosphorus Removal in an Enhanced Biological Phosphorus Removal Process: Roles of Extracellular Polymeric Substances. Environmental Science & Technology, 2013, 47, 11482-11489.	4.6	167
646	The effect of extracellular polymeric substances on the adhesion of bacteria to clay minerals and goethite. Chemical Geology, 2013, 360-361, 118-125.	1.4	60
647	Formation, characterization and mathematical modeling of the aerobic granular sludge. Springer Theses, 2013, , .	0.0	5
648	A statistical comparison of protein and carbohydrate characterisation methodology applied on sewage sludge samples. Water Research, 2013, 47, 1751-1762.	5.3	71
649	Photocatalytic pretreatment for the redox conversion of waste activated sludge to enhance biohydrogen production. International Journal of Hydrogen Energy, 2013, 38, 7246-7252.	3.8	22
650	A review of the properties of biosludge and its relevance to enhanced dewatering processes. Biomass and Bioenergy, 2013, 58, 365-378.	2.9	211
651	Performance of industrial scale hollow-fibre membranes in a submerged anaerobic MBR (HF-SAnMBR) system at mesophilic and psychrophilic conditions. Separation and Purification Technology, 2013, 104, 290-296.	3.9	34
652	Using graphene oxide to enhance the activity of anammox bacteria for nitrogen removal. Bioresource Technology, 2013, 131, 527-530.	4.8	104
653	Quantification of the interactions between Ca2+, Hg2+ and extracellular polymeric substances (EPS) of sludge. Chemosphere, 2013, 93, 1436-1441.	4.2	112
654	<i>In situ</i> imaging of biopolymers and extracellular enzymes in activated sludge flocs of a municipal wastewater treatment plant. Journal of Chemical Technology and Biotechnology, 2013, 88, 1295-1304.	1.6	10
655	Influence of extraction method on size exclusion chromatography fingerprints of EPS from wastewater sludges. Environmental Technology (United Kingdom), 2013, 34, 321-332.	1.2	9
656	Comparison of the characteristics of extracellular polymeric substances for two different extraction methods and sludge formation conditions. Chemosphere, 2013, 90, 237-244.	4.2	43
657	Thermodynamic analysis on the binding of heavy metals onto extracellular polymeric substances (EPS) of activated sludge. Water Research, 2013, 47, 607-614.	5.3	289
658	Evaluation of recycling the effluent of hydrogen fermentation for biobutanol production: Kinetic study with butyrate and sucrose concentrations. Chemosphere, 2013, 93, 597-603.	4.2	11

#	Article	IF	CITATIONS
659	Extended filaments of bulking sludge sink in the floc layer with particulate substrate. Chemosphere, 2013, 93, 2725-2731.	4.2	17
660	A novel wastewater treatment and biomass cultivation system combining photosynthetic bacteria and membrane bioreactor technology. Desalination, 2013, 322, 176-181.	4.0	48
661	Effect of acid, heat and combined acid-heat pretreatments of anaerobic sludge on hydrogen production by anaerobic mixed cultures. International Journal of Hydrogen Energy, 2013, 38, 6146-6153.	3.8	67
662	Characterization of soluble and bound EPS obtained from 2 submerged membrane bioreactors by 3D-EEM and HPSEC. Talanta, 2013, 115, 706-712.	2.9	50
663	Impact of calcium on biofilm morphology, structure, detachment and performance in denitrifying fluidized bed bioreactors (DFBBRs). Chemical Engineering Journal, 2013, 232, 183-195.	6.6	15
664	Physical characteristics and formation mechanism of denitrifying granular sludge in high-load reactor. Bioresource Technology, 2013, 142, 683-687.	4.8	46
665	Mechanisms of membrane fouling controlled by online ultrasound in an anaerobic membrane bioreactor for digestion of waste activated sludge. Journal of Membrane Science, 2013, 445, 119-126.	4.1	56
666	Degradation of Extracellular Polymeric Substances (EPS) in Anaerobic Digestion of Dewatered Sludge. Procedia Environmental Sciences, 2013, 18, 515-521.	1.3	30
667	Influence of extraction methods on proteins and carbohydrates analysis from MBR activated sludge flocs in view of improving EPS determination. Separation and Purification Technology, 2013, 112, 1-10.	3.9	71
668	Fouling mitigation in membrane bioreactors using multivalent cations. Colloids and Surfaces B: Biointerfaces, 2013, 109, 90-96.	2.5	24
669	Critical assessment of extracellular polymeric substances extraction methods from mixed culture biomass. Water Research, 2013, 47, 5564-5574.	5.3	116
670	Effect of magnetic nanoparticles on the performance of activated sludge treatment system. Bioresource Technology, 2013, 143, 555-561.	4.8	84
671	Changes of the reactor performance and the properties of granular sludge under tetracycline (TC) stress. Bioresource Technology, 2013, 139, 170-175.	4.8	99
672	Impact of nitrogen loading rates on treatment performance of domestic wastewater and fouling propensity in submerged membrane bioreactor (MBR). Bioresource Technology, 2013, 141, 46-49.	4.8	21
673	Effect of solid retention time on sludge filterability and biomass activity: Long-term experiment on a pilot-scale membrane bioreactor treating municipal wastewater. Chemical Engineering Journal, 2013, 221, 176-184.	6.6	36
674	Influence of sulfate on the transport of bacteria in quartz sand. Colloids and Surfaces B: Biointerfaces, 2013, 110, 443-449.	2.5	13
675	The characteristics of extracellular polymeric substances and soluble microbial products in moving bed biofilm reactor-membrane bioreactor. Bioresource Technology, 2013, 148, 436-442.	4.8	73
676	Effects of ferric iron on the anaerobic treatment and microbial biodiversity in a coupled microbial electrolysis cell (MEC) – Anaerobic reactor. Water Research, 2013, 47, 5719-5728.	5.3	104

#	Article	IF	CITATIONS
677	Species of phosphorus in the extracellular polymeric substances of EBPR sludge. Bioresource Technology, 2013, 142, 714-718.	4.8	56
678	The effect of continuous Zn (II) exposure on the organic degradation capability and soluble microbial products (SMP) of activated sludge. Journal of Hazardous Materials, 2013, 244-245, 489-494.	6.5	23
679	Systematic analysis of biomass characteristics associated membrane fouling during start-up of a hybrid membrane bioreactor using worm reactor for sludge reduction. Bioresource Technology, 2013, 136, 155-162.	4.8	5
680	Application of high OLR-fed aerobic granules for the treatment of low-strength wastewater: Performance, granule morphology and microbial community. Journal of Environmental Sciences, 2013, 25, 1549-1556.	3.2	9
681	Influence of operating conditions on extracellular polymeric substances and surface properties of sludge flocs. Carbohydrate Polymers, 2013, 92, 510-515.	5.1	30
682	Effect of sludge properties on the filtration characteristics of self-forming dynamic membranes (SFDMs) in aerobic bioreactors: Formation time, filtration resistance, and fouling propensity. Journal of Membrane Science, 2013, 436, 186-194.	4.1	54
683	Impact of certain household micropollutants on bacterial behavior. Toxicity tests/study of extracellular polymeric substances in sludge. Science of the Total Environment, 2013, 463-464, 355-365.	3.9	35
684	Nitrogen-removal performance and community structure ofÂnitrifying bacteria under different aeration modes in an oxidation ditch. Water Research, 2013, 47, 3845-3853.	5.3	44
685	Extraction and Characterization of Extracellular Polymeric Substances in Biofilm and Sludge via Completely Autotrophic Nitrogen Removal Over Nitrite System. Applied Biochemistry and Biotechnology, 2013, 169, 526-538.	1.4	15
686	Biases during DNA extraction of activated sludge samples revealed by high throughput sequencing. Applied Microbiology and Biotechnology, 2013, 97, 4607-4616.	1.7	139
687	Fluorescence detection to determine proteins and humic-like substances fingerprints of exopolymeric substances (EPS) from biological sludges performed by size exclusion chromatography (SEC). Bioresource Technology, 2013, 131, 159-165.	4.8	62
688	Microbial Biofilms. , 2013, , 343-372.		13
689	Microalgae autoflocculation: an alternative to high-energy consuming harvesting methods. Journal of Applied Phycology, 2013, 25, 991-999.	1.5	128
690	Bactericidal activity of Ag-doped multi-walled carbon nanotubes and the effects of extracellular polymeric substances and natural organic matter. Colloids and Surfaces B: Biointerfaces, 2013, 104, 133-139.	2.5	36
691	Improving the Properties of Slurry Fuel Preparation To Recycle Municipal Sewage Sludge by Alkaline Pretreatment. Energy & Fuels, 2013, 27, 2883-2889.	2.5	21
692	Anaerobic co-digestion of microalgae Chlorella sp. and waste activated sludge. Bioresource Technology, 2013, 142, 585-590.	4.8	151
693	Roles of extracellular polymeric substances (EPS) in the migration and removal of sulfamethazine in activated sludge system. Water Research, 2013, 47, 5298-5306.	5.3	264
694	Growth and metabolism characteristics of anaerobic ammonium-oxidizing bacteria aggregates. Applied Microbiology and Biotechnology, 2013, 97, 5575-5583.	1.7	63

#	Article	IF	CITATIONS
696	Hydraulic resistance of biofilms. Journal of Membrane Science, 2013, 429, 436-447.	4.1	100
697	Transport and Retention of Selected Engineered Nanoparticles by Porous Media in the Presence of a Biofilm. Environmental Science & Technology, 2013, 47, 2246-2253.	4.6	89
698	Interaction of erythromycin ethylsuccinate and acetaminophen with protein fraction of extracellular polymeric substances (EPS) from various bacterial aggregates. Environmental Science and Pollution Research, 2013, 20, 7275-7285.	2.7	28
699	Electricity generation from dissolved organic matter in polluted lake water using a microbial fuel cell (MFC). Biochemical Engineering Journal, 2013, 71, 57-61.	1.8	23
700	Correlation between effluent organic matter characteristics and membrane fouling in a membrane bioreactor using advanced organic matter characterization tools. Desalination, 2013, 309, 74-83.	4.0	16
701	Significance of chemical conditioning to improve dewaterability of biosludge generated from tanneries. Clean Technologies and Environmental Policy, 2013, 15, 945-953.	2.1	4
702	Mini-review: microbial problems in paper production. Biofouling, 2013, 29, 683-696.	0.8	34
703	Achieving Biogas Generation and Minimized Sludge Production Using a High-Rate Anaerobic Side-stream Reactor (ASSR) Process - Pilot Study. Proceedings of the Water Environment Federation, 2013, 2013, 27-46.	0.0	0
704	Effects of Microwave Irradiation on Dewaterability and Extracellular Polymeric Substances of Waste Activated Sludge. Water Environment Research, 2013, 85, 278-285.	1.3	10
705	Ragging phenomenon characterisation and impact in a full-scale MBR. Water Science and Technology, 2013, 67, 810-816.	1.2	17
706	Aerobic Granulation in a Sequencing Batch Reactor for the Treatment of Piggery Wastewater. Water Environment Research, 2013, 85, 239-245.	1.3	2
707	Effect of Aeration Intensity on Membrane Fouling of Non-Woven Fibers - MBR. Advanced Materials Research, 2013, 726-731, 1695-1698.	0.3	1
708	Biological Nutrient Removal and EPS Performance in Aerobic-MBR and SBR-MBR Systems. Advanced Materials Research, 2013, 699, 291-297.	0.3	0
709	A Review on Utilization of Organic Matters in Activated Sludge. Advanced Materials Research, 0, 773, 353-361.	0.3	0
710	Performance of a Novel Decentralised Sewage Treatment Reactor. Journal of Chemistry, 2013, 2013, 1-6.	0.9	1
711	Effect of Hydraulic Retention Time on Sludge Properties, Cake Layer Structure, and Membrane Fouling in a Thermophilic Submerged Aerobic Membrane Bioreactor. Separation Science and Technology, 2013, 48, 1529-1536.	1.3	9
712	EXTRACTION OF LIPASE AND PROTEASE AND CHARACTERIZATION OF ACTIVATED SLUDGE FROM PULP AND PAPER INDUSTRY. Preparative Biochemistry and Biotechnology, 2013, 43, 152-162.	1.0	11
713	Metagenome Survey of a Multispecies and Alga-Associated Biofilm Revealed Key Elements of Bacterial-Algal Interactions in Photobioreactors. Applied and Environmental Microbiology, 2013, 79, 6196-6206.	1.4	111

#	Article	IF	CITATIONS
714	High β-Lactamase Levels Change the Pharmacodynamics of β-Lactam Antibiotics in Pseudomonas aeruginosa Biofilms. Antimicrobial Agents and Chemotherapy, 2013, 57, 196-204.	1.4	69
715	Investigation of Characteristics of Microalgae Grown in Different Wastewater and Their Enhancing Anaerobic Digestibility of Waste Activated Sludge. Proceedings of the Water Environment Federation, 2013, 2013, 2071-2080.	0.0	1
716	Proliferation of Purple Sulphur Bacteria at the Sediment Surface Affects Intertidal Mat Diversity and Functionality. PLoS ONE, 2013, 8, e82329.	1.1	11
717	Enhanced Butanol Production by <i>Clostridium acetobutylicum</i> NCIMB 13357 Grown on Date Fruit as Carbon Source in P2 Medium. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	30
718	Fouling Issues in Membrane Bioreactors (MBRs) for Wastewater Treatment: Major Mechanisms, Prevention and Control Strategies. Processes, 2014, 2, 795-866.	1.3	90
719	Self-preservation strategies during bacterial biomineralization with reference to hydrozincite and implications for fossilization of bacteria. Journal of the Royal Society Interface, 2014, 11, 20140845.	1.5	8
720	Fungal Treatment for Wastewater Settleability. Environmental Engineering Science, 2014, 31, 18-23.	0.8	4
721	Enhanced Stabilization of Digested Sludge During Long-Term Storage in Anaerobic Lagoons. Water Environment Research, 2014, 86, 291-295.	1.3	2
722	Effects of alumina trihydrate (ATH) on formation of biofilms settled on inert carriers of polyethylene terephthalate (PET). Desalination and Water Treatment, 2014, 52, 5454-5461.	1.0	1
723	Analysis of extracellular polymeric substance (EPS) release in anaerobic sludge holding tank and its effects on membrane fouling in a membrane bioreactor (MBR). Water Science and Technology, 2014, 70, 82-88.	1.2	4
724	Monitoring and examination of adaptation period of microorganisms in membrane-bioreactor system treating fruit juice industry wastewaters. International Journal of Global Warming, 2014, 6, 160.	0.2	1
725	Influence of biofilm thickness on nitrous oxide (N2O) emissions from denitrifying fluidized bed bioreactors (DFBBRs). Journal of Biotechnology, 2014, 192, 281-290.	1.9	18
726	Biofouling ecology as a means to better understand membrane biofouling. Applied Microbiology and Biotechnology, 2014, 98, 8047-8072.	1.7	61
727	Fouling of anion exchange resin by fluorescence analysis in advanced treatment of municipal wastewaters. Water Research, 2014, 66, 233-241.	5.3	26
728	Enhanced organic pollutant removal influenced by activated-ferric-sludge. Environmental Technology (United Kingdom), 2014, 35, 2528-2537.	1.2	1
729	Highly efficient secondary dewatering of dewatered sewage sludge using low boiling point solvents. Environmental Technology (United Kingdom), 2014, 35, 95-103.	1.2	11
730	Correlation among extracellular polymeric substances, tetracycline resistant bacteria and tetracycline resistance genes under trace tetracycline. Chemosphere, 2014, 117, 658-662.	4.2	29
731	Environmental Research on the Effects of Fenton Reaction Conditions on the Dehydration Properties of Lake Dongting Mud. Advanced Materials Research, 0, 977, 259-263.	0.3	Ο

#	Article	IF	CITATIONS
732	Effect of Suspended Carriers on Extracellular Polymeric Substances in MBR. Advanced Materials Research, 0, 955-959, 1939-1943.	0.3	0
733	Classification and extraction methods of the clog components of constructed wetland. Ecological Engineering, 2014, 70, 327-331.	1.6	19
734	Impact of Tourmaline on Biofilm Morphology, Structure and Performance in Sequencing Batch Biofilm Reactors. Advanced Materials Research, 2014, 1030-1032, 404-409.	0.3	0
735	Adsorption behavior of tightly bound extracellular polymeric substances on model organic surfaces under different pH and cations with surface plasmon resonance. Water Research, 2014, 57, 31-39.	5.3	56
736	Impact of biofilm accumulation on transmembrane and feed channel pressure drop: Effects of crossflow velocity, feed spacer and biodegradable nutrient. Water Research, 2014, 50, 200-211.	5.3	51
737	Investigation of measurement methods and characterization of zeta potential for aerobic granular sludge. Journal of Environmental Chemical Engineering, 2014, 2, 1142-1147.	3.3	30
738	Mechanism of toxicity formation and spatial distribution in activated sludge treating synthetic effluent containing bisphenol A (BPA). Chemical Engineering Journal, 2014, 250, 91-98.	6.6	57
739	Surfactant-mediated settleability and dewaterability of activated sludge. Chemical Engineering Science, 2014, 116, 228-234.	1.9	54
740	Influences of d-tyrosine on the stability of activated sludge flocs. Bioresource Technology, 2014, 154, 26-31.	4.8	13
741	Biofilms on the surface of gravels and aquatic plants in rivers and lakes with reusing reclaimed water. Environmental Earth Sciences, 2014, 72, 743-755.	1.3	9
742	Characterization of heme protein expressed by ammonia-oxidizing bacteria under low dissolved oxygen conditions. Applied Microbiology and Biotechnology, 2014, 98, 3231-3239.	1.7	9
743	Measuring the soil-microbial interface: Extraction of extracellular polymeric substances (EPS) from soil biofilms. Soil Biology and Biochemistry, 2014, 72, 163-171.	4.2	130
744	Mechanism behind autoflocculation of unicellular green microalgae Ettlia texensis. Journal of Biotechnology, 2014, 174, 34-38.	1.9	108
745	Kinetics of nutrient removal and expression of extracellular polymeric substances of the microalgae, Chlorella sp. and Micractinium sp., in wastewater treatment. Bioresource Technology, 2014, 154, 131-137.	4.8	181
746	Regulation of aerobic granular sludge reformulation after granular sludge broken: Effect of poly aluminum chloride (PAC). Bioresource Technology, 2014, 158, 201-208.	4.8	49
747	Characterization of the interactions between tetracycline antibiotics and microbial extracellular polymeric substances with spectroscopic approaches. Environmental Science and Pollution Research, 2014, 21, 1786-1795.	2.7	83
748	A critical review of extracellular polymeric substances (EPSs) in membrane bioreactors: Characteristics, roles in membrane fouling and control strategies. Journal of Membrane Science, 2014, 460, 110-125.	4.1	583
749	Structure, composition, and strength of nitrifying membrane-aerated biofilms. Water Research, 2014, 57, 151-161.	5.3	64

#	Article	IF	CITATIONS
750	Ultrasonic sludge disintegration for improving the co-slurrying properties of municipal waste sludge and coal. Fuel Processing Technology, 2014, 125, 94-105.	3.7	31
751	The ability of an antimicrobial agent to penetrate a biofilm is not correlated with its killing or removal efficiency. Biofouling, 2014, 30, 675-683.	0.8	34
752	Polydopamine coating effects on ultrafiltration membrane to enhance power density and mitigate biofouling of ultrafiltration microbial fuel cells (UF-MFCs). Water Research, 2014, 54, 62-68.	5.3	105
753	High loaded MBRs for organic matter recovery fromÂsewage: Effect of solids retention time on bioflocculation and on the role of extracellular polymers. Water Research, 2014, 56, 258-266.	5.3	73
754	<i>In Situ</i> Analysis of Bacterial Extracellular Polymeric Substances from a <i>Pseudomonas fluorescens</i> Biofilm by Combined Vibrational and Single Molecule Force Spectroscopies. Journal of Physical Chemistry B, 2014, 118, 6702-6713.	1.2	24
755	Biodegradative Bacteria. , 2014, , .		9
756	Immobilization of selenium by biofilm ofShewanella putrefacienswith and without Fe(III)-citrate complex. Journal of Nuclear Science and Technology, 2014, 51, 108-115.	0.7	5
757	Influences of environmental factors on bacterial extracellular polymeric substances production in porous media. Journal of Hydrology, 2014, 519, 3153-3162.	2.3	33
758	Enhancement of sludge reduction and methane production by removing extracellular polymeric substances from waste activated sludge. Chemosphere, 2014, 117, 552-558.	4.2	34
759	Use of aerobic granules for treating synthetic high-strength ammonium wastewaters. Environmental Technology (United Kingdom), 2014, 35, 1785-1790.	1.2	16
760	Effect of dissolved oxygen and temperature on macromolecular composition and PHB storage of activated sludge. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 857-862.	0.9	6
761	Simultaneous nitrification denitrification in a Batch Granulation Membrane Airlift Bioreactor. International Biodeterioration and Biodegradation, 2014, 95, 139-143.	1.9	29
762	Nutrient release, recovery and removal from waste sludge of a biological nutrient removal system. Environmental Technology (United Kingdom), 2014, 35, 2734-2742.	1.2	8
763	Efficacy of the novel oxazolidinone compound FYL-67 for preventing biofilm formation by Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2014, 69, 3011-3019.	1.3	29
764	The role of bacterial extracellular polymeric substances in geomicrobiology. Chemical Geology, 2014, 386, 115-132.	1.4	166
765	Variation of extracellular polymeric substances (EPS) and specific resistance to filtration in sludge granulation process to the change of influent organic loading rate. Desalination and Water Treatment, 2014, 52, 4376-4387.	1.0	24
766	Ultrasonic Treatment of Waste Sludge: A Review on Mechanisms and Applications. Critical Reviews in Environmental Science and Technology, 2014, 44, 1220-1288.	6.6	158
767	Mitigation of nitrous oxide (N 2 O) emissions from denitrifying fluidized bed bioreactors (DFBBRs) using calcium. Bioresource Technology, 2014, 173, 272-283.	4.8	5

#	Article	IF	CITATIONS
768	Impacts of microalgae pre-treatments for improved anaerobic digestion: Thermal treatment, thermal hydrolysis, ultrasound and enzymatic hydrolysis. Water Research, 2014, 65, 350-361.	5.3	148
769	Change of pH during excess sludge fermentation under alkaline, acidic and neutral conditions. Bioresource Technology, 2014, 174, 1-5.	4.8	22
770	Filamentous and non-filamentous bulking of activated sludge encountered under nutrients limitation or deficiency conditions. Chemical Engineering Journal, 2014, 255, 453-461.	6.6	72
771	Effects of phosphate limitation in feed water on biofouling in forward osmosis (FO) process. Desalination, 2014, 349, 51-59.	4.0	31
772	Salt stress in a membrane bioreactor: Dynamics of sludge properties, membrane fouling and remediation through powdered activated carbon dosing. Water Research, 2014, 63, 112-124.	5.3	33
773	A new classification paradigm of extracellular polymeric substances (EPS) in activated sludge: Separation and characterization of exopolymers between floc level and microcolony level. Water Research, 2014, 64, 53-60.	5.3	63
774	The effect of poly-β-hydroxyalkanoates degradation rate on nitrous oxide production in a denitrifying phosphorus removal system. Bioresource Technology, 2014, 170, 175-182.	4.8	25
775	Understanding the role of extracellular polymeric substances in an enhanced biological phosphorus removal granular sludge system. Bioresource Technology, 2014, 169, 307-312.	4.8	77
776	Extraction and characterization of bound extracellular polymeric substances from cultured pure cyanobacterium (Microcystis wesenbergii). Journal of Environmental Sciences, 2014, 26, 1725-1732.	3.2	25
777	Methodological approaches for studying the microbial ecology of drinking water distribution systems. Water Research, 2014, 65, 134-156.	5.3	215
778	Effect of Activated Sludge Retention Time, Operating Temperature, and Influent Phosphorus Deficiency on Floc Physicochemical Characteristics and UV Disinfection. Industrial & Engineering Chemistry Research, 2014, 53, 12485-12493.	1.8	7
779	Waste Biomass-Extracted Surfactants for Heavy Oil Removal. Industrial & Engineering Chemistry Research, 2014, 53, 3612-3621.	1.8	22
780	Enumeration of non-labile oxygen atoms in dissolved organic matter by use of 160/180 exchange and Fourier transform ion-cyclotron resonance mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 6655-6664.	1.9	46
781	The important implications of particulate substrate in determining the physicochemical characteristics of extracellular polymeric substances (EPS) in activated sludge. Water Research, 2014, 58, 1-8.	5.3	50
782	The influence of SBR parameters on the sludge toxicity of synthetic wastewater containing bisphenol A. Environmental Science and Pollution Research, 2014, 21, 9287-9296.	2.7	6
783	Characterization of dewatering process of activated sludge assisted by cationic surfactants. Biochemical Engineering Journal, 2014, 91, 174-178.	1.8	59
784	Long-term effect of the antibiotic cefalexin on methane production during waste activated sludge anaerobic digestion. Bioresource Technology, 2014, 169, 644-651.	4.8	76
785	Anaerobic digestion of pulp and paper mill wastewater and sludge. Water Research, 2014, 65, 321-349.	5.3	197

#	Article	IF	CITATIONS
786	Possible causes of excess sludge reduction adding metabolic uncoupler, 3,3′,4′,5-tetrachlorosalicylanilide (TCS), in sequence batch reactors. Bioresource Technology, 2014, 173, 96-103.	4.8	51
787	Evaluation of the damage of cell wall and cell membrane for various extracellular polymeric substance extractions of activated sludge. Journal of Biotechnology, 2014, 188, 130-135.	1.9	68
788	Mechanism of membrane filterability amelioration via tuning mixed liquor property by pre-ozonation. Journal of Membrane Science, 2014, 454, 111-118.	4.1	18
789	A comparison study on membrane fouling in a sponge-submerged membrane bioreactor and a conventional membrane bioreactor. Bioresource Technology, 2014, 165, 69-74.	4.8	100
790	Toxicity formation and distribution in activated sludge during treatment of N,N-dimethylformamide (DMF) wastewater. Journal of Hazardous Materials, 2014, 264, 278-285.	6.5	28
791	The effect of solids retention times on the characterization of extracellular polymeric substances and soluble microbial products in a submerged membrane bioreactor. Bioresource Technology, 2014, 163, 395-398.	4.8	35
792	Combined electrical-alkali pretreatment to increase the anaerobic hydrolysis rate of waste activated sludge during anaerobic digestion. Applied Energy, 2014, 128, 93-102.	5.1	188
793	Experimental evidence for osmotic pressure-induced fouling in a membrane bioreactor. Bioresource Technology, 2014, 158, 119-126.	4.8	22
794	Effects of ultrasound assisted Fenton treatment on textile dyeing sludge structure and dewaterability. Chemical Engineering Journal, 2014, 242, 102-108.	6.6	75
795	Characteristics of extracellular polymeric substances of phototrophic biofilms at different aquatic habitats. Carbohydrate Polymers, 2014, 106, 1-6.	5.1	44
796	Using graphene oxide to reactivate the anaerobic ammonium oxidizers after long-term storage. Journal of Environmental Chemical Engineering, 2014, 2, 974-980.	3.3	12
797	Short-term fouling propensity and flux behavior in an osmotic membrane bioreactor for wastewater treatment. Desalination, 2014, 332, 91-99.	4.0	77
798	Bio-fouling of subsurface type drip emitters applying reclaimed water under medium soil thermal variation. Agricultural Water Management, 2014, 133, 12-23.	2.4	28
799	Analytical methods for soluble microbial products (SMP) and extracellular polymers (ECP) in wastewater treatment systems: A review. Water Research, 2014, 61, 1-18.	5.3	198
800	Enhanced reductive transformation of p-chloronitrobenzene in a novel bioelectrode–UASB coupled system. Bioresource Technology, 2014, 167, 303-309.	4.8	26
801	Computer simulation of a submerged membrane bioreactor treating high COD industrial wastewater. Frontiers in Environmental Science, 2014, 2, .	1.5	3
802	Influence of Temperature on Treatment Performance of Synthetic Sewage by Anaerobic Membrane Bioreactor (AnMBR). Journal of Japan Society on Water Environment, 2014, 37, 197-204.	0.1	2
803	Evaluation of a pretreatment method using cation exchange resin to enhance the sludge solubilization and disintegration for improving the efficiency of anaerobic digestion. Desalination and Water Treatment, 0, , 1-8.	1.0	0

ARTICLE IF CITATIONS Correlation of Filtration Resistance with Microbial Polymeric Substances Extracted from Membranes 804 0.7 2 in a Submerged Membrane Bioreactor. Clean - Soil, Air, Water, 2014, 42, 1712-1720. Activated Sludge – 100 Years and Counting. Water Intelligence Online, 0, 13, . 0.3 Microwave and its combined processes: an effective way for enhancing anaerobic digestion and 806 1.2 14 dewaterability of sewage sludge?. Journal of Water Reuse and Desalination, 2015, 5, 264-270. NMR and MALDI-TOF MS based characterization of exopolysaccharides in anaerobic microbial aggregates from full-scale reactors. Scientific Reports, 2015, 5, 14316. Back to Basics – The Influence of DNA Extraction and Primer Choice on Phylogenetic Analysis of 808 1.1 437 Activated Sludge Communities. PLoS ONE, 2015, 10, e0132783. Highâ€Rate Anaerobic Sideâ€Stream Reactor (ASSR) Processes to Minimize the Production of Excess Sludge. Water Environment Research, 2015, 87, 2090-2097. 809 1.3 Mechanism of Activated Sludge Floc Disintegration Induced by Excess Addition of NaCl. Clean - Soil, 810 0.7 26 Air, Water, 2015, 43, 1197-1206. Isolation of Extracellular Polymeric Substances from Biofilms of the Thermoacidophilic Archaeon 2.0 Sulfolobus acidocaldarius. Frontiers in Bioengineering and Biotechnology, 2015, 3, 123. Release of Extracellular Polymeric Substance and Disintegration of Anaerobic Granular Sludge under 812 1.6 33 Reduced Sulfur Compounds-Rich Conditions. Energies, 2015, 8, 7968-7985. Metagenomic sequencing of marine periphyton: taxonomic and functional insights into biofilm 1.5 49 communities. Frontiers in Microbiology, 2015, 6, 1192. Microbial Problems in Papermaking and Consequences., 2015, , 21-52. 814 0 The starvation tolerance of anammox bacteria culture at 35°C. Journal of Bioscience and 1.1 Bioengineering, 2015, 120, 450-455. Distribution of extracellular polymeric substances in anammox granules and their important roles 816 1.8 93 during anammox granulation. Biochemical Engineering Journal, 2015, 101, 126-133. Composition of extracellular polymeric substances in a partial nitrification reactor treating high 4.8 ammonia wastewater and nitrous oxide emission. Bioresource Technology, 2015, 190, 474-479. Effect of operating and design parameters on the performance of a microbial fuel cell with 818 1.8 35 Lactobacillus pentosus. Biochemical Engineering Journal, 2015, 104, 34-40. Resources availability mediated EPS production regulate microbial cluster formation in activated sludge system. Chemical Engineering Journal, 2015, 279, 129-135. Application of dispersed and immobilized hydrolases for membrane fouling mitigation in anaerobic 820 4.1 16 membrane bioreactors. Journal of Membrane Science, 2015, 491, 99-109. The role of paraffin oil on the interaction between denitrifying anaerobic methane oxidation and Anammox processes. Applied Microbiology and Biotechnology, 2015, 99, 7925-7936.

#	Article	IF	CITATIONS
822	Effects of metabolic uncouplers on excess sludge reduction and microbial products of activated sludge. Bioresource Technology, 2015, 185, 1-6.	4.8	40
823	Quantification of wastewater sludge dewatering. Water Research, 2015, 82, 2-13.	5.3	121
824	Overview of Fenton pre-treatment of sludge aiming to enhance anaerobic digestion. Reviews in Environmental Science and Biotechnology, 2015, 14, 453-472.	3.9	49
825	Effect of initial pH on short chain fatty acid production during the anaerobic fermentation of membrane bioreactor sludge enhanced by alkyl polyglcoside. International Biodeterioration and Biodegradation, 2015, 104, 283-289.	1.9	60
826	Hydrolytic enzyme protease in sludge: Recovery and its application. Biotechnology and Bioprocess Engineering, 2015, 20, 652-661.	1.4	20
827	The effect of shear stress on the formation and removal of Bacillus cereus biofilms. Food and Bioproducts Processing, 2015, 93, 242-248.	1.8	58
828	Role and significance of extracellular polymeric substances from granular sludge for simultaneous removal of organic matter and ammonia nitrogen. Bioresource Technology, 2015, 179, 460-466.	4.8	87
829	Optimization of full-scale membrane bioreactors for wastewater treatment through a model-based approach. Chemical Engineering Journal, 2015, 267, 34-42.	6.6	36
830	Study of biofilms on PVDF membranes after chemical cleaning by sodium hypochlorite. Separation and Purification Technology, 2015, 141, 314-321.	3.9	43
831	Ultrasound, thermal and alkali treatments affect extracellular polymeric substances (EPSs) and improve waste activated sludge dewatering. Process Biochemistry, 2015, 50, 438-446.	1.8	73
832	Influence of zero valent scrap iron (ZVSI) supply on methane production from waste activated sludge. Chemical Engineering Journal, 2015, 263, 461-470.	6.6	160
833	A cost-effective method for the treatment of reject water from sludge dewatering process using supernatant from sludge lime stabilization. Separation and Purification Technology, 2015, 142, 123-128.	3.9	28
834	Relationship between electrical and rheological properties of sewage sludge – Impact of temperature. Water Research, 2015, 73, 1-8.	5.3	14
835	Response of aerobic granular sludge to the long-term presence to nanosilver in sequencing batch reactors: Reactor performance, sludge property, microbial activity and community. Science of the Total Environment, 2015, 506-507, 226-233.	3.9	39
836	A refined technique for extraction of extracellular matrices from bacterial biofilms and its applicability. Microbial Biotechnology, 2015, 8, 392-403.	2.0	106
837	Effects of ultrasonic-assisted thermophilic bacteria pretreatment on hydrolysis, acidification, and microbial communities in waste-activated sludge fermentation process. Environmental Science and Pollution Research, 2015, 22, 9100-9109.	2.7	25
838	Role of extracellular polymeric substance in determining the high aggregation ability ofÂanammox sludge. Water Research, 2015, 75, 51-62.	5.3	541
839	Membrane biofouling retardation and improved sludge characteristics using quorum quenching bacteria in submerged membrane bioreactor. Journal of Membrane Science, 2015, 483, 75-83.	4.1	70

#	Article	IF	CITATIONS
840	Fate of Organic Pollutants in a Full-Scale Drinking Water Treatment Plant Using O ₃ -BAC. Ozone: Science and Engineering, 2015, 37, 257-268.	1.4	11
841	Engineering soil organic matter quality: Biodiesel Co-Product (BCP) stimulates exudation of nitrogenous microbial biopolymers. Geoderma, 2015, 259-260, 205-212.	2.3	8
842	Investigation of anaerobic digestion of Chlorella sp. and Micractinium sp. grown in high-nitrogen wastewater and their co-digestion with waste activated sludge. Biomass and Bioenergy, 2015, 80, 30-37.	2.9	81
843	Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. Journal of Environmental Management, 2015, 161, 181-187.	3.8	27
844	Enhancement of activated sludge dewatering performance by combined composite enzymatic lysis and chemical re-flocculation with inorganic coagulants: Kinetics of enzymatic reaction and re-flocculation morphology. Water Research, 2015, 83, 367-376.	5.3	163
845	Characterization of the extracellular polymeric substances and microbial community of aerobic granulation sludge exposed to cefalexin. International Biodeterioration and Biodegradation, 2015, 102, 375-382.	1.9	61
846	Study of the sludge reduction in an oxic–settling–anaerobic activated sludge process based on UNITANK. Water Science and Technology, 2015, 71, 111-116.	1.2	4
847	Extracellular polymeric substances govern the development of biofilm and mass transfer of polycyclic aromatic hydrocarbons for improved biodegradation. Bioresource Technology, 2015, 193, 274-280.	4.8	109
848	Optimization for extracellular polymeric substances extraction of microbial aggregates. Water Science and Technology, 2015, 71, 1106-1112.	1.2	17
849	Impact of Substrate Feed Patterns on Solids Reduction by the Cannibal Process. Water Environment Research, 2015, 87, 274-280.	1.3	6
850	Effects of Activated Sludge Process Conditions on the Production of Extracellular Polymeric Substances: Results of Yearlong Monitoring in a Warm Climate. Environmental Engineering Science, 2015, 32, 582-592.	0.8	10
851	Degradation of slime extracellular polymeric substances and inhibited sludge flocs destruction contribute to sludge dewaterability enhancement during fungal treatment of sludge using filamentous fungus Mucor sp. GY-1. Bioresource Technology, 2015, 192, 514-521.	4.8	25
852	Free nitrous acid breaks down extracellular polymeric substances in waste activated sludge. RSC Advances, 2015, 5, 43312-43318.	1.7	51
853	Biofilm formation mechanisms and targets for developing antibiofilm agents. Future Medicinal Chemistry, 2015, 7, 493-512.	1.1	492
854	Adsorption of Pb(II), Cd(II) and Zn(II) by extracellular polymeric substances extracted from aerobic granular sludge: Efficiency of protein. Journal of Environmental Chemical Engineering, 2015, 3, 1223-1232.	3.3	95
855	Bacteria viability and decay in water and soil of vertical subsurface flow constructed wetlands. Ecological Engineering, 2015, 82, 49-56.	1.6	26
856	Studies on the interactions of Ca2+ and Mg2+ with EPS and their role in determining the physicochemical characteristics of granular sludges in SBR system. Process Biochemistry, 2015, 50, 966-972.	1.8	76
857	Survival and activity of individual bioaugmentation strains. Bioresource Technology, 2015, 186, 192-199.	4.8	53

#	Article	IF	CITATIONS
858	Synergetic conditioning of sewage sludge via Fe2+/persulfate and skeleton builder: Effect on sludge characteristics and dewaterability. Chemical Engineering Journal, 2015, 270, 572-581.	6.6	131
859	FeO enhanced acetification of propionate and granulation of sludge in acidogenic reactor. Applied Microbiology and Biotechnology, 2015, 99, 6083-6089.	1.7	14
860	Monitoring Simulated Bioflocculation: Application of Micro-Flow Imaging Technology. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	2
861	Dynamic biofilm component in reclaimed water during rapid growth period. Environmental Earth Sciences, 2015, 73, 4325-4338.	1.3	10
862	Comparison between moving bed-membrane bioreactor and conventional membrane bioreactor systems. Part I: membrane fouling. Environmental Earth Sciences, 2015, 73, 4881-4890.	1.3	17
863	Influence of Fe ²⁺ -sodium persulfate on extracellular polymeric substances and dewaterability of sewage sludge. Desalination and Water Treatment, 2015, 53, 2655-2663.	1.0	22
864	A multi-disciplinarily designed mesocosm to address the complex flow-sediment-ecology tripartite relationship on the microscale. Environmental Sciences Europe, 2015, 27, .	11.0	3
865	Protein and polysaccharide content of tightly and loosely bound extracellular polymeric substances and the development of a granular activated sludge floc. Water Research, 2015, 82, 104-117.	5.3	204
866	Physicochemical composition and techno-functional properties of bee pollen collected in Serbia. LWT - Food Science and Technology, 2015, 62, 301-309.	2.5	75
867	Assessment of bacterial community structure in nitrifying biofilm under inorganic carbon-sufficient and -limited conditions. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 201-212.	0.9	7
868	Influence of solids retention time on membrane fouling: characterization of extracellular polymeric substances and soluble microbial products. Biofouling, 2015, 31, 181-191.	0.8	17
869	Mesophilic anaerobic co-digestion of waste activated sludge and Egeria densa : Performance assessment and kinetic analysis. Applied Energy, 2015, 148, 78-86.	5.1	126
870	Role of extracellular polymeric substances (EPS) production in bioaggregation: application to wastewater treatment. Applied Microbiology and Biotechnology, 2015, 99, 9883-9905.	1.7	177
871	Impact of biofilm on bacterial transport and deposition in porous media. Journal of Contaminant Hydrology, 2015, 183, 109-120.	1.6	18
872	Instrumentation and control of anaerobic digestion processes: a review and some research challenges. Reviews in Environmental Science and Biotechnology, 2015, 14, 615-648.	3.9	118
873	High-rate activated sludge system for carbon management – Evaluation of crucial process mechanisms and design parameters. Water Research, 2015, 87, 476-482.	5.3	192
874	Evaluation of EPS extraction protocols from anaerobic sludge for gel-based proteomic studies. Water Science and Technology, 2015, 72, 535-542.	1.2	4
875	Biostabilization of cohesive sediments: revisiting the role of abiotic conditions, physiology and diversity of microbes, polymeric secretion, and biofilm architecture. Geobiology, 2015, 13, 68-97.	1.1	136

# 876	ARTICLE Effects of alkalinity on membrane bioreactors for reject water treatment: Performance improvement, fouling mitigation and microbial structures. Bioresource Technology, 2015, 197, 217-226.	IF 4.8	Citations 40
877	Effect of sulfate radical oxidation on disintegration of waste activated sludge. International Biodeterioration and Biodegradation, 2015, 104, 384-390.	1.9	63
878	Variations in extracellular polymeric substances (EPS) during adaptation of activated sludges to new feeding conditions. International Biodeterioration and Biodegradation, 2015, 105, 137-145.	1.9	25
879	A study on TOC and nutrients removal in SBR and CFSTR systems in relation to sludge EPS during granulation process. Desalination and Water Treatment, 2015, 55, 1683-1689.	1.0	6
880	Anaerobic co-digestion of municipal wastewater sludge with food waste with different fat, oil, and grease contents: study of reactor performance and extracellular polymeric substances. RSC Advances, 2015, 5, 103547-103556.	1.7	23
881	The effect of continuous Ni(II) exposure on the organic degradation and soluble microbial product (SMP) formation in two-phase anaerobic reactor. Journal of Environmental Sciences, 2015, 33, 78-87.	3.2	18
882	Evaluation of a MBR pilot treating industrial wastewater with a high COD/N ratio. Journal of Chemical Technology and Biotechnology, 2015, 90, 26-33.	1.6	19
883	Granulation, control of bacterial contamination, and enhanced lipid accumulation by driving nutrient starvation in coupled wastewater treatment and Chlorella regularis cultivation. Applied Microbiology and Biotechnology, 2015, 99, 1531-1541.	1.7	29
884	Remediation of pharmaceuticals and personal care products using an aerobic granular sludge sequencing bioreactor and microbial community profiling using Solexa sequencing technology analysis. Bioresource Technology, 2015, 179, 104-112.	4.8	82
885	Extraction of extracellular polymeric substances in activated sludge using sequential extraction. Journal of Chemical Technology and Biotechnology, 2015, 90, 1448-1454.	1.6	3
886	Free nitrous acid pretreatment of wasted activated sludge to exploit internal carbon source for enhanced denitrification. Bioresource Technology, 2015, 179, 20-25.	4.8	66
887	Influence of support media on COD and BOD removal from domestic wastewater using biological treatment in batch mode. Desalination and Water Treatment, 2015, 54, 37-43.	1.0	6
888	Dewaterability of anaerobic digestate from food waste: Relationship with extracellular polymeric substances. Chemical Engineering Journal, 2015, 262, 932-938.	6.6	78
889	Feasibility of bioleaching combined with Fenton oxidation to improve sewage sludge dewaterability. Journal of Environmental Sciences, 2015, 28, 37-42.	3.2	25
890	Spectroscopic characterization of extracellular polymeric substances from a mixed culture dominated by ammonia-oxidizing bacteria. Water Research, 2015, 68, 740-749.	5.3	357
891	Influence of extracellular polymeric substances (EPS) from Pseudomonas NCIMB 2021 on the corrosion behaviour of 70Cu–30Ni alloy in seawater. Journal of Electroanalytical Chemistry, 2015, 737, 184-197.	1.9	37
892	Extraction procedure optimization and the characteristics of dissolved extracellular organic matter (dEOM) and bound extracellular organic matter (bEOM) from Chlorella pyrenoidosa. Colloids and Surfaces B: Biointerfaces, 2015, 125, 238-246.	2.5	66
893	Enhancement of Activated Sludge Dewaterability by Using Filamentous Fungi as Bioadditives. Water (Switzerland), 2016, 8, 531.	1.2	3

	Сітатіо	N REPORT	
#	Article	IF	CITATIONS
894	A Look inside the Listeria monocytogenes Biofilms Extracellular Matrix. Microorganisms, 2016, 4, 22.	1.6	71
895	Cellulase in Waste Management Applications. , 2016, , 237-256.		14
896	Detection Techniques for Extracellular Polymeric Substances in Biofilms: A Review. BioResources, 2016, 11, 8092-8115.	0.5	41
897	Influence of Flow Velocity on the Characteristics of <i>Pseudomonas fluorescens</i> Biofilms. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	40
898	Enhancing metaproteomics—The value of models and defined environmental microbial systems. Proteomics, 2016, 16, 783-798.	1.3	62
899	Understanding key constituents and feature of the biopolymer in activated sludge responsible for binding heavy metals. Chemical Engineering Journal, 2016, 304, 527-532.	6.6	60
900	Effects of Extracellular Polymeric Substance Composition on Bacteria Disinfection by Monochloramine: Application of MALDI-TOF/TOF–MS and Multivariate Analysis. Environmental Science & Technology, 2016, 50, 9197-9205.	4.6	21
901	Protein to polysaccharide ratio in EPS as an indicator of non-optimized operation of tertiary nitrifying MBBR. Water Quality Research Journal of Canada, 2016, 51, 297-306.	1.2	12
902	Redox properties of extracellular polymeric substances (EPS) from electroactive bacteria. Scientific Reports, 2016, 6, 39098.	1.6	81
903	Effective methods for extracting extracellular polymeric substances from Shewanella oneidensis MR-1. Water Science and Technology, 2016, 74, 2987-2996.	1.2	34
904	Effects of substrate shock on extracellular polymeric substance (EPS) excretion and characteristics of attached biofilm anammox granules. RSC Advances, 2016, 6, 113289-113297.	1.7	53
905	The Perfect Slime: Microbial Extracellular Polymeric Substances (EPS). Water Intelligence Online, 2016, 15, 9781780407425-9781780407425.	0.3	30
906	Greenhouse gas emission and microbial community dynamics during simultaneous nitrification and denitrification process. Bioresource Technology, 2016, 210, 94-100.	4.8	90
907	Characterizing fluorescent dissolved organic matter in a membrane bioreactor via excitation–emission matrix combined with parallel factor analysis. Bioresource Technology, 2016, 209, 31-39.	4.8	87
908	Exposure of activated sludge to nanosilver and silver ion: Inhibitory effects and binding to the fractions of extracellular polymeric substances. Bioresource Technology, 2016, 211, 691-697.	4.8	15
909	Community dynamics and significance of anaerobic protozoa during biomethanation of lignocellulosic waste. Renewable Energy, 2016, 98, 148-152.	4.3	6
910	Chronic impact of sulfamethoxazole on the metabolic activity and composition of enriched nitrifying microbial culture. Water Research, 2016, 100, 546-555.	5.3	43
911	Genomic insights into members of the candidate phylum Hyd24-12 common in mesophilic anaerobic digesters. ISME Journal, 2016, 10, 2352-2364.	4.4	62

#	Article	IF	CITATIONS
912	Discrepant membrane fouling of partial nitrification and anammox membrane bioreactor operated at the same nitrogen loading rate. Bioresource Technology, 2016, 214, 729-736.	4.8	34
913	Sulfhydryl Binding Sites within Bacterial Extracellular Polymeric Substances. Environmental Science & Technology, 2016, 50, 5498-5505.	4.6	44
914	Comparison between mixed liquors of two side-stream membrane bioreactors treating wastewaters from waste management plants with high and low solids anaerobic digestion. Water Research, 2016, 100, 517-525.	5.3	13
915	Acyl-homoserine lactone-based quorum sensing and quorum quenching hold promise to determine the performance of biological wastewater treatments: An overview. Chemosphere, 2016, 157, 137-151.	4.2	204
916	Heavy metals removal from wastewater using extracellular polymeric substances produced by Cloacibacterium normanense in wastewater sludge supplemented with crude glycerol and study of extracellular polymeric substances extraction by different methods. Bioresource Technology, 2016, 212, 120-129.	4.8	109
917	Leaching of polycyclic aromatic hydrocarbons (PAHs) from industrial wastewater sludge by ultrasonic treatment. Ultrasonics Sonochemistry, 2016, 33, 61-66.	3.8	38
918	Effects of Fe(III) on biofilm and its extracellular polymeric substances (EPS) in fixed bed biofilm reactors. Water Science and Technology, 2016, 73, 2060-2066.	1.2	25
919	The effects of substrate exposure history and carbon starvation-induced stress on the EPS synthesis of TCE degrading toluene oxidizing soil bacteria. Environmental Earth Sciences, 2016, 75, 1.	1.3	3
920	Characteristics of extracellular polymeric substances from sludge and biofilm in a simultaneous nitrification and denitrification system under high salinity stress. Bioprocess and Biosystems Engineering, 2016, 39, 1375-1389.	1.7	59
921	Extraction of extracellular polymeric substances from activated sludge using sodium oxalate. International Journal of Environmental Science and Technology, 2016, 13, 1697-1706.	1.8	9
922	Effect of solid retention time on membrane fouling in membrane bioreactor: from the perspective of quorum sensing and quorum quenching. Applied Microbiology and Biotechnology, 2016, 100, 7887-7897.	1.7	32
923	Principal component analysis on sewage sludge characteristics and its implication to dewatering performance with Fe2+/persulfate-skeleton builder conditioning. International Journal of Environmental Science and Technology, 2016, 13, 2283-2292.	1.8	19
924	Null mutants ofCandida albicansfor cell-wall-related genes form fragile biofilms that display an almost identical extracellular matrix proteome. FEMS Yeast Research, 2016, 16, fow075.	1.1	11
925	Behaviour of fouling-related components in an enhanced membrane bioreactor using marine activated sludge. Bioresource Technology, 2016, 220, 401-406.	4.8	12
926	Enhancement of Membrane Fouling Control in Hybrid Aerobic Membrane Bioreactor System for Domestic Waste Water Application: Effect of Alum Concentration. Procedia Engineering, 2016, 148, 726-734.	1.2	5
927	Bioflocculation management through high-rate contact-stabilization: A promising technology to recover organic carbon from low-strength wastewater. Water Research, 2016, 104, 485-496.	5.3	88
928	Enhanced stable long-term operation of biotrickling filters treating VOCs by low-dose ozonation and its affecting mechanism on biofilm. Chemosphere, 2016, 162, 139-147.	4.2	29
929	Responses of soluble microbial products and extracellular polymeric substances to the presence of toxic 2,6-dichlorophenol in aerobic granular sludge system. Journal of Environmental Management, 2016, 183, 594-600.	3.8	33

#	Article	IF	CITATIONS
930	Biosynthesised magnetic iron nanoparticles for sludge dewatering via Fenton process. Environmental Science and Pollution Research, 2016, 23, 21416-21430.	2.7	14
931	Performance of submerged anaerobic membrane bioreactor for thermomechanical pulping wastewater treatment. Journal of Water Process Engineering, 2016, 13, 70-78.	2.6	22
932	Effect of static magnetic field on the performances of and anode biofilms in microbial fuel cells. RSC Advances, 2016, 6, 82301-82308.	1.7	26
933	Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. Biotechnology Advances, 2016, 34, 1159-1179.	6.0	310
934	Investigating the significance of coagulation kinetics on maintaining membrane permeability in an MBR following reactive coagulant dosing. Journal of Membrane Science, 2016, 516, 64-73.	4.1	5
935	Enhancement of dewatering performance of digested paper mill sludge by chemical pretreatment. IOP Conference Series: Earth and Environmental Science, 2016, 39, 012069.	0.2	Ο
936	Effect of wet oxidation on the fingerprints of polymeric substances from an activated sludge. Water Research, 2016, 105, 282-290.	5.3	18
937	Biofouling control by biostimulation of quorumâ€quenching bacteria in a membrane bioreactor for wastewater treatment. Biotechnology and Bioengineering, 2016, 113, 2624-2632.	1.7	59
938	Membrane fouling behavior and microbial community succession in a submerged membrane bioreactor treating harbor oily wastewater. Journal of Zhejiang University: Science A, 2016, 17, 745-757.	1.3	2
939	Insight into the roles of tightly and loosely bound extracellular polymeric substances on a granular sludge in ammonium nitrogen removal. Bioresource Technology, 2016, 222, 408-412.	4.8	36
940	Using flow cytometry to evaluate thermal extraction of EPS from Synechocystis sp. PCC 6803. Algal Research, 2016, 20, 276-281.	2.4	24
941	Aerobic granular sludge to treat paper mill effluent: selection of ideal strains that contribute to the formation of strong aggregates. Desalination and Water Treatment, 2016, 57, 28537-28550.	1.0	2
942	Interaction between mercuric chloride and extracellular polymers of biofilm-forming mercury resistant marine bacterium Bacillus thuringiensis PW-05. RSC Advances, 2016, 6, 109793-109802.	1.7	23
943	Enhancement of activated sludge disintegration and dewaterability by Fenton process. IOP Conference Series: Earth and Environmental Science, 2016, 36, 012018.	0.2	3
945	Extraction of Structural Extracellular Polymeric Substances from Aerobic Granular Sludge. Journal of Visualized Experiments, 2016, , .	0.2	63
946	Effect of Worm Predation on Changes in Waste Activated Sludge Properties. Water Environment Research, 2016, 88, 387-393.	1.3	4
947	Mechanism and kinetics of biofilm growth process influenced by shear stress in sewers. Water Science and Technology, 2016, 73, 1572-1582.	1.2	28
948	Simultaneous denitrification and phosphorus removal by Agrobacterium sp. LAD9 under varying oxygen concentration. Applied Microbiology and Biotechnology, 2016, 100, 3337-3346.	1.7	25

#	Article	IF	CITATIONS
949	Excess sludge and herbaceous plant co-digestion for volatile fatty acids generation improved by protein and cellulose conversion enhancement. Environmental Science and Pollution Research, 2016, 23, 1492-1504.	2.7	11
950	Impact of sludge retention time on the fine composition of the microbial community and extracellular polymeric substances in a membrane bioreactor. Applied Microbiology and Biotechnology, 2016, 100, 8507-8521.	1.7	18
951	Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation of mixed microalgae consortia. International Journal of Hydrogen Energy, 2016, 41, 21628-21640.	3.8	82
952	A review of practical tools for rapid monitoring of membrane bioreactors. Water Research, 2016, 102, 252-262.	5.3	22
953	The viscoelastic characterisation of thermally-treated waste activated sludge. Chemical Engineering Journal, 2016, 304, 362-368.	6.6	25
954	Discrepant hexavalent chromium tolerance and detoxification by two strains of Trichoderma asperellum with high homology. Chemical Engineering Journal, 2016, 298, 75-81.	6.6	25
955	Effects of bacterial cells and two types of extracellular polymers on bioclogging of sand columns. Journal of Hydrology, 2016, 535, 293-300.	2.3	36
956	Effects of short-time aerobic digestion on extracellular polymeric substances and sludge features of waste activated sludge. Chemical Engineering Journal, 2016, 299, 177-183.	6.6	56
957	Use of anaerobic hydrolysis pretreatment to enhance ultrasonic disintegration of excess sludge. Water Science and Technology, 2016, 73, 1190-1196.	1.2	1
958	A grit separation module for inorganic matter removal from activated sludge: investigation on characteristics of split sludge from the module. Environmental Technology (United Kingdom), 2016, 37, 3168-3176.	1.2	3
959	HAOPs pretreatment to reduce membrane fouling: Foulant identification, removal, and interactions. Journal of Membrane Science, 2016, 515, 219-229.	4.1	13
960	The effect of seasonality upon the development of lotic biofilms and microbial biostabilisation. Freshwater Biology, 2016, 61, 963-978.	1.2	17
961	Structure and formation of anoxic granular sludge—A string-bag hypothesis. Frontiers of Environmental Science and Engineering, 2016, 10, 311-318.	3.3	5
962	Degradation of extracellular polymeric substances (EPS) extracted from activated sludge by low-concentration ozonation. Chemosphere, 2016, 147, 248-255.	4.2	76
963	Proteins dominate in the surface layers formed on materials exposed to extracellular polymeric substances from bacterial cultures. Biofouling, 2016, 32, 95-108.	0.8	36
964	Variations in distribution and composition of extracellular polymeric substances (EPS) of biological sludge under potassium ferrate conditioning: Effects of pH and ferrate dosage. Biochemical Engineering Journal, 2016, 106, 37-47.	1.8	88
965	Denitrifying sulfide removal process on high-tetracycline wastewater. Bioresource Technology, 2016, 205, 254-257.	4.8	28
966	Effect of pressure on fouling of microfiltration membranes by activated sludge. Desalination and Water Treatment, 2016, 57, 6159-6171	1.0	3

#	Article	IF	CITATIONS
967	Influence of wastewater sludge treatment using combined peroxyacetic acid oxidation and inorganic coagulants re-flocculation on characteristics of extracellular polymeric substances (EPS). Water Research, 2016, 88, 728-739.	5.3	225
968	Influence of COD:N ratio on sludge properties and their role in membrane fouling of a submerged membrane bioreactor. Water Research, 2016, 89, 132-141.	5.3	92
969	Extracellular polymeric substances (EPS) and surface properties of activated sludges: effect of organic carbon sources. Environmental Science and Pollution Research, 2016, 23, 1653-1663.	2.7	45
970	Characterization of exopolysaccharides from floccular and aerobic granular activated sludge as alginate-like-exoPS. Desalination and Water Treatment, 2016, 57, 2534-2545.	1.0	32
971	"Protein―Measurement in Biological Wastewater Treatment Systems: A Critical Evaluation. Environmental Science & Technology, 2016, 50, 3074-3081.	4.6	83
972	Extracellular polymeric substances extraction induced the increased purification performance of percoll density gradient centrifugation for anammox bacteria. Chemical Engineering Journal, 2016, 287, 529-536.	6.6	11
973	Biological stability and dewaterability of CAS and MBR sludge. Desalination and Water Treatment, 2016, 57, 22926-22933.	1.0	5
974	Biofilm activity and sludge characteristics affected by exogenous N-acyl homoserine lactones in biofilm reactors. Bioresource Technology, 2016, 211, 339-347.	4.8	74
975	Activation of immobilized Clostridium saccharoperbutylacetonicum N1-4 for butanol production under different oscillatory frequencies and chemical buffers. International Biodeterioration and Biodeterioration. 2016, 110, 129-135.	1.9	6
976	New insight into fouling behavior and foulants accumulation property of cake sludge in a full-scale membrane bioreactor. Journal of Membrane Science, 2016, 510, 10-17.	4.1	50
977	Improving the performance of an aerobic membrane bioreactor (MBR) treating pharmaceutical wastewater with powdered activated carbon (PAC) addition. Bioprocess and Biosystems Engineering, 2016, 39, 661-676.	1.7	26
978	Silver nanoparticles formation by extracellular polymeric substances (EPS) from electroactive bacteria. Environmental Science and Pollution Research, 2016, 23, 8627-8633.	2.7	30
979	Composition and morphology characterization of exopolymeric substances produced by the PAH-degrading fungus of Mucor mucedo. Environmental Science and Pollution Research, 2016, 23, 8421-8430.	2.7	12
980	Quantitative and qualitative validations of a sonication-based DNA extraction approach for PCR-based molecular biological analyses. Analytical Biochemistry, 2016, 501, 44-46.	1.1	6
981	Nonoxidative removal of organics in the activated sludge process. Critical Reviews in Environmental Science and Technology, 2016, 46, 1-38.	6.6	27
982	Catalytic ozonation of organic pollutants from bio-treated dyeing and finishing wastewater using recycled waste iron shavings as a catalyst: Removal and pathways. Water Research, 2016, 92, 140-148.	5.3	148
983	Colorimetric measurement of carbohydrates in biological wastewater treatment systems: A critical evaluation. Water Research, 2016, 94, 280-287.	5.3	83
984	Effects of pH and Salinity on Adsorption of Hypersaline Photosynthetic Microbial Mat Exopolymers to Goethite: A Study Using a Quartz Crystal Microbalance and Fluorescence Spectroscopy. Geomicrobiology Journal, 2016, 33, 332-337.	1.0	5

		CITATION REPORT	
#	Article	IF	CITATIONS
985	Enhancement of anaerobic digestive efficiency by the use of exchange resin to remove cations ir sewage sludge. Desalination and Water Treatment, 2016, 57, 6202-6208.	ו.0	6
986	Antibiofilm and antifouling activities of extracellular polymeric substances isolated from the bacteria associated with marine gastropod <i>Turbo</i> sp. Oceanological and Hydrobiological Studies, 2016, 45, 11-19.	0.3	17
987	Biomethane recovery from Egeria densa in a microbial electrolysis cell-assisted anaerobic system Performance and stability assessment. Chemosphere, 2016, 149, 121-129.	: 4.2	36
988	Roles of iron species and pH optimization on sewage sludge conditioning with Fenton's reagent lime. Water Research, 2016, 95, 124-133.	and 5.3	203
989	Cysteamine Enhances Biofilm Eradication Efficacy of Calcium Hydroxide. Journal of Endodontics, 42, 742-746.	2016, 1.4	6
990	Mitigated membrane fouling of anammox membrane bioreactor by microbiological immobilization Bioresource Technology, 2016, 201, 312-318.	on. 4.8	39
991	The influences of shear stress on Extracellular Polymeric Substances of activated sludge. Desalination and Water Treatment, 2016, 57, 15835-15842.	1.0	6
992	Comparing three methods for photosynthetic bacteria separation and recycling during wastewa treatment. Desalination and Water Treatment, 2016, 57, 12467-12477.	ter 1.0	11
993	Characterization, structure, and function of extracellular polymeric substances (EPS) of microbia biofilm in biological wastewater treatment systems: a review. Desalination and Water Treatment 57, 16220-16237.		101
994	Effect of Cr(VI) on the microbial activity of aerobic granular sludge. Desalination and Water Treatment, 2016, 57, 7000-7008.	1.0	5
995	Effects of trace element addition on process stability during anaerobic co-digestion of OFMSW a slaughterhouse waste. Waste Management, 2016, 47, 11-20.	and 3.7	116
996	Combined organic matter and nitrogen removal from a chemical industry wastewater in a two-si MBBR system. Environmental Technology (United Kingdom), 2016, 37, 96-107.	tage 1.2	17
997	Microbial behavior and characteristics of biomass during starvation and their influence on ultrafiltration of activated sludge. Desalination and Water Treatment, 2016, 57, 7487-7494.	1.0	1
998	The autofluorescence characteristics of bacterial intracellular and extracellular substances during the operation of anammox reactor. Scientific Reports, 2017, 7, 39289.	g 1.6	16
999	Effect of anionic surfactant inhibition on sewage treatment by a submerged anaerobic membrar bioreactor: Efficiency, sludge activity and methane recovery. Chemical Engineering Journal, 2017 83-91.		45
1000	Efficiency of producing bioflocs with aquaculture waste by using poly-β-hydroxybutyric acid as a carbon source in suspended growth bioreactors. Aquacultural Engineering, 2017, 76, 34-40.	1.4	12
1001	Potential coupling effects of ammonia-oxidizing and anaerobic ammonium-oxidizing bacteria on completely autotrophic nitrogen removal over nitrite biofilm formation induced by the second messenger cyclic diguanylate. Applied Microbiology and Biotechnology, 2017, 101, 3821-3828.	1.7	25
1002	Interactions between metal ions and the biopolymer in activated sludge: quantification and effersystem pH value. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	cts of 3.3	15

#	Article	IF	Citations
1003	Rheological measurements as a tool for monitoring the performance of high pressure and high temperature treatment of sewage sludge. Water Research, 2017, 114, 254-263.	5.3	21
1004	Dry anaerobic digestion of food waste and cardboard at different substrate loads, solid contents and co-digestion proportions. Bioresource Technology, 2017, 233, 166-175.	4.8	87
1005	Characterization and functional analysis of <i>clpB</i> gene from <i>Acidovorax avenae</i> subsp. <i>avenae</i> RSâ€1. Plant Pathology, 2017, 66, 1369-1379.	1.2	10
1006	Immobilization of Cu by Bacillus subtilis DBM and the Role of Extracellular Polymeric Substances. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	8
1007	Influences of activated sludge surface properties on adsorption of aqueous fullerene C60 nanoparticles. International Journal of Environmental Science and Technology, 2017, 14, 1989-1998.	1.8	2
1008	Extracellular polymeric substances and sludge solid/liquid separation under <i>Moringa oleifera</i> and chitosan conditioning: a review. Environmental Technology Reviews, 2017, 6, 59-73.	2.1	5
1009	Improved PVDF membrane performance by doping extracellular polymeric substances of activated sludge. Water Research, 2017, 113, 89-96.	5.3	18
1010	Hollow fiber membrane bioreactor affects microbial community and morphology of the DAMO and Anammox co-culture system. Bioresource Technology, 2017, 232, 247-253.	4.8	48
1011	Treatment of chemical synthesis-based pharmaceutical wastewater in an ozonation-anaerobic membrane bioreactor (AnMBR) system. Chemical Engineering Journal, 2017, 322, 293-301.	6.6	70
1012	Novel extracellular polymeric substances produced by <i>Cupriavidus necator</i> IPT 027 grown on glucose and crude glycerol originated from biodiesel. Polymers for Advanced Technologies, 2017, 28, 549-556.	1.6	10
1013	Chemical additives affect sulfate reducing bacteria biofilm properties adsorbed on stainless steel 316L surface in circulating cooling water system. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	9
1014	A study of the osmotic membrane bioreactor process using a sodium chloride solution and an industrial effluent as draw solutions. Chemical Engineering Journal, 2017, 322, 603-610.	6.6	24
1015	Applying rheological analysis to better understand the mechanism of acid conditioning on activated sludge dewatering. Water Research, 2017, 122, 398-406.	5.3	92
1016	Preparation, characterization and application of low-cost pyrophyllite-alumina composite ceramic membranes for treating low-strength domestic wastewater. Journal of Membrane Science, 2017, 536, 108-115.	4.1	51
1017	Extracellular Polymeric Substances from a Fungus Are More Effective than Those from a Bacterium in Polycyclic Aromatic Hydrocarbon Biodegradation. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	11
1018	A strategy to speed up formation and strengthen activity of biofilms at low temperature. RSC Advances, 2017, 7, 22788-22796.	1.7	21
1019	Microstructure of anammox granules and mechanisms endowing their intensity revealed by microscopic inspection and rheometry. Water Research, 2017, 120, 22-31.	5.3	107
1020	Unified understanding of physico-chemical properties of activated sludge and fouling propensity. Water Research, 2017, 120, 117-132.	5.3	48

		15	0
#	ARTICLE	IF	CITATIONS
1021	Pollutant removal and microorganism evolution of activated sludge under ofloxacin selection pressure. Bioresource Technology, 2017, 241, 849-856.	4.8	72
1022	Effect of free ammonium and free nitrous acid on the activity, aggregate morphology and extracellular polymeric substance distribution of ammonium oxidizing bacteria in partial nitrification. Journal of Bioscience and Bioengineering, 2017, 124, 319-326.	1.1	33
1023	Global parametric sensitivity analysis of a model for dead-end microfiltration of bacterial suspensions. Journal of Membrane Science, 2017, 537, 119-127.	4.1	2
1024	Impact of food to microorganism ratio and alcohol ethoxylate dosage on methane production in treatment of low-strength wastewater by a submerged anaerobic membrane bioreactor. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	16
1025	Achievement, performance and characteristics of microbial products in a partial nitrification sequencing batch reactor as a pretreatment for anaerobic ammonium oxidation. Chemosphere, 2017, 183, 212-218.	4.2	39
1026	Treatment of food waste recycling wastewater using anaerobic ceramic membrane bioreactor for biogas production in mainstream treatment process of domestic wastewater. Water Research, 2017, 123, 86-95.	5.3	82
1027	Protein recovery from solubilized sludge by hydrothermal treatments. Waste Management, 2017, 67, 278-287.	3.7	50
1028	Microbial fuel cell technology as a downstream process of a membrane bioreactor for sludge reduction. Chemical Engineering Journal, 2017, 326, 222-230.	6.6	26
1029	Matrix interference reduction for the analysis of carbohydrate in wastewater using H-point standard addition method. Water Science and Technology, 2017, 76, 1059-1064.	1.2	2
1030	Deciphering pretreatment-induced repartition among stratified extracellular biopolymers and its effect on anaerobic biodegradability and dewaterability of waste activated sludge. Journal of Environmental Chemical Engineering, 2017, 5, 3014-3023.	3.3	14
1031	Comparison of different treatment methods for protein solubilisation from waste activated sludge. Water Research, 2017, 122, 492-502.	5.3	95
1032	Effects of hexavalent chromium on performance, extracellular polymeric substances and microbial community structure of anaerobic activated sludge in a sequencing batch reactor. Journal of Chemical Technology and Biotechnology, 2017, 92, 2719-2730.	1.6	26
1033	Applying fermentation liquid of food waste as carbon source to a pilot-scale anoxic/oxic-membrane bioreactor for enhancing nitrogen removal: Microbial communities and membrane fouling behaviour. Bioresource Technology, 2017, 236, 164-173.	4.8	53
1034	Continuous micro-current stimulation to upgrade methanolic wastewater biodegradation and biomethane recovery in an upflow anaerobic sludge blanket (UASB) reactor. Chemosphere, 2017, 180, 229-238.	4.2	33
1035	Free ammonia pre-treatment of secondary sludge significantly increases anaerobic methane production. Water Research, 2017, 118, 12-19.	5.3	119
1036	Enhancement of microbial density and methane production in advanced anaerobic digestion of secondary sewage sludge by continuous removal of ammonia. Bioresource Technology, 2017, 232, 380-388.	4.8	55
1037	Biosorption of diethyl phthalate ester by living and nonliving Burkholderia cepacia and the role of its cell surface components. Chemosphere, 2017, 178, 187-196.	4.2	18
1038	Various Sludge Pretreatments: Their Impact on Biogas Generation. , 2017, , 39-71.		8

#	Article	IF	CITATIONS
1039	Effects of magnetic nanoparticles on aerobic granulation process. Bioresource Technology, 2017, 227, 44-49.	4.8	38
1040	Influence of extracellular polymeric substances (EPS) treated by combined ultrasound pretreatment and chemical re-flocculation on water treatment sludge settling performance. Chemosphere, 2017, 170, 196-206.	4.2	54
1041	Effects of phenol on physicochemical properties and treatment performances of partial nitrifying granules in sequencing batch reactors. Biotechnology Reports (Amsterdam, Netherlands), 2017, 13, 13-18.	2.1	15
1042	Development and application of an improved protocol to characterize biofilms in biologically active drinking water filters. Environmental Science: Water Research and Technology, 2017, 3, 249-261.	1.2	17
1043	Efficient methanogenic degradation of alcohol ethoxylates and microbial community acclimation in treatment of municipal wastewater using a submerged anaerobic membrane bioreactor. Bioresource Technology, 2017, 226, 181-190.	4.8	30
1044	Zinc toxicity stimulates microbial production of extracellular polymers in a copiotrophic acid soil. International Biodeterioration and Biodegradation, 2017, 119, 413-418.	1.9	18
1045	A comparatively optimization of dosages of oxidation agents based on volatile solids and dry solids content in dewatering of sewage sludge. Water Research, 2017, 126, 342-350.	5.3	58
1046	The roles of loosely-bound and tightly-bound extracellular polymer substances in enhanced biological phosphorus removal. Chemosphere, 2017, 189, 679-688.	4.2	44
1047	How myristyltrimethylammonium bromide enhances biomass harvesting and pigments extraction from Synechocystis sp. PCC 6803. Water Research, 2017, 126, 189-196.	5.3	23
1048	Rapid establishment of phenol- and quinoline-degrading consortia driven by the scoured cake layer in an anaerobic baffled ceramic membrane bioreactor. Environmental Science and Pollution Research, 2017, 24, 26125-26135.	2.7	22
1049	Quantitative and qualitative characterization of extracellular polymeric substances from Anammox enrichment. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 738-746.	2.7	8
1050	Investigating extracellular polymeric substances from microbial mat upon exposure to sunlight. Polymer Degradation and Stability, 2017, 146, 192-200.	2.7	9
1051	Changing profiles of bound water content and distribution in the activated sludge treatment by NaCl addition and pH modification. Chemosphere, 2017, 186, 702-708.	4.2	74
1052	Characterization of syntrophic <i>Geobacter</i> communities using ToF-SIMS. Biointerphases, 2017, 12, 05G601.	0.6	23
1053	Combined pretreatment of electrolysis and ultra-sonication towards enhancing solubilization and methane production from mixed microalgae biomass. Bioresource Technology, 2017, 245, 196-200.	4.8	43
1054	Achieving enhanced denitrification via hydrocyclone treatment on mixed liquor recirculation in the anoxic/aerobic process. Chemosphere, 2017, 189, 206-212.	4.2	15
1055	Prospective of Microbial Exopolysaccharide for Heavy Metal Exclusion. Applied Biochemistry and Biotechnology, 2017, 183, 582-600.	1.4	73
1056	Response of extracellular polymeric substances to thermal treatment in sludge dewatering process. Environmental Pollution, 2017, 231, 1388-1392.	3.7	45

#	Article	IF	CITATIONS
1057	Kinetic study of dry anaerobic co-digestion of food waste and cardboard for methane production. Waste Management, 2017, 69, 470-479.	3.7	40
1058	Removal of lignin from straw spent pulping liquor using synthetic cationic and biobased flocculants. Separation and Purification Technology, 2017, 188, 348-357.	3.9	8
1059	Effect of hydraulic retention time on deterioration/restarting of sludge anaerobic digestion: Extracellular polymeric substances and microbial response. Bioresource Technology, 2017, 244, 261-269.	4.8	38
1060	Impact of water characteristics on the bioenergy recovery from sewage treatment by anaerobic membrane bioreactor via a comprehensive study on the response of microbial community and methanogenic activity. Energy, 2017, 139, 459-467.	4.5	31
1061	Evolution of nitrogen species in landfill leachates under various stabilization states. Waste Management, 2017, 69, 225-231.	3.7	19
1062	Biosorption and Binding Mechanisms of Ni ²⁺ and Cd ²⁺ with Aerobic Granules Cultivated in Different Synthetic Media. Chemical Engineering and Technology, 2017, 40, 2179-2187.	0.9	13
1063	Changes in the process performance, sludge production and microbial activity in an activated sludge reactor with addition of a metabolic uncoupler under different operating conditions. Journal of Environmental Management, 2017, 203, 349-357.	3.8	17
1064	Optimum selection of extraction methods of extracellular polymeric substances in activated sludge for effective extraction of the target components. Biochemical Engineering Journal, 2017, 127, 136-146.	1.8	45
1065	The performance and evolution of bacterial community of activated sludge exposed to trimethoprim in a sequencing batch reactor. Bioresource Technology, 2017, 244, 872-879.	4.8	37
1066	Biofouling of membrane distillation, forward osmosis and pressure retarded osmosis: Principles, impacts and future directions. Journal of Membrane Science, 2017, 542, 378-398.	4.1	137
1067	Applying rheological analysis to understand the mechanism of polyacrylamide (PAM) conditioning for sewage sludge dewatering. RSC Advances, 2017, 7, 30274-30282.	1.7	29
1068	Characterization of uranium in the extracellular polymeric substances of anaerobic granular sludge used to treat uranium-contaminated groundwater. RSC Advances, 2017, 7, 54188-54195.	1.7	9
1069	Quantification of Humic Substances in Natural Water Using Nitrogen-Doped Carbon Dots. Environmental Science & Technology, 2017, 51, 14092-14099.	4.6	35
1070	Impact of sludge retention time on MBR fouling: role of extracellular polymeric substances determined through membrane autopsy. Biofouling, 2017, 33, 556-566.	0.8	13
1071	Characterization of changes in floc morphology, extracellular polymeric substances and heavy metals speciation of anaerobically digested biosolid under treatment with a novel chelated-Fe2+ catalyzed Fenton process. Bioresource Technology, 2017, 243, 641-651.	4.8	38
1072	The influence of protruding filamentous bacteria on floc stability and solid-liquid separation in the activated sludge process. Water Research, 2017, 123, 578-585.	5.3	70
1073	Effects of hydraulic retention time on adsorption behaviours of EPS in an A/O-MBR: biofouling study with QCM-D. Scientific Reports, 2017, 7, 2895.	1.6	6
1074	Value-Added Bio-products From Sewage Sludge. , 2017, , 27-42.		7

#	Article	IF	Citations
1075	Exploring the potential of iTRAQ proteomics for tracking the transformation of extracellular	4.8	32
1076	chemical characterization of Pseudomonas veronii 2E soluble exopolymer as Cd(II) ligand for the biotreatment of electroplating wastes. International Biodeterioration and Biodegradation, 2017, 119, 605-613.	1.9	12
1077	Effect of bioflocculation on fouling-related biofoulants in a membrane bioreactor during saline wastewater treatments. Bioresource Technology, 2017, 224, 285-291.	4.8	24
1078	Heavy metals removal by osmotic membrane bioreactor (OMBR) and their effect on sludge properties. Desalination, 2017, 403, 117-127.	4.0	42
1079	Physicochemical, functional, and nutritional characteristics of stabilized rice bran form tarom cultivar. Food Science and Nutrition, 2017, 5, 407-414.	1.5	34
1080	Dewatering and removal of metals from urban anaerobically digested sludge by Fenton's oxidation. Environmental Technology (United Kingdom), 2017, 38, 495-505.	1.2	20
1081	Physical and biochemical changes in sludge upon <i>Tubifex tubifex</i> predation. Environmental Technology (United Kingdom), 2017, 38, 1524-1538.	1.2	12
1082	Effects of CeO2, CuO, and ZnO nanoparticles on physiological features of Microcystis aeruginosa and the production and composition of extracellular polymeric substances. Environmental Science and Pollution Research, 2017, 24, 226-235.	2.7	49
1083	Flocculation of wheat straw soda lignin by hemoglobin and chicken blood: effects of cationic polymer or calcium chloride. Journal of Chemical Technology and Biotechnology, 2017, 92, 793-800.	1.6	9
1084	Biotoxicity Evaluations of Three Typical Biochars Using a Simulated System of Fast Pyrolytic Biochar Extracts on Organisms of Three Kingdoms. ACS Sustainable Chemistry and Engineering, 2017, 5, 481-488.	3.2	55
1085	Overview of pretreatment strategies for enhancing sewage sludge disintegration and subsequent anaerobic digestion: Current advances, full-scale application and future perspectives. Renewable and Sustainable Energy Reviews, 2017, 69, 559-577.	8.2	619
1086	Development of montmorillonite-supported nano CaO2 for enhanced dewatering of waste-activated sludge by synergistic effects of filtration aid and peroxidation. Chemical Engineering Journal, 2017, 307, 418-426.	6.6	39
1087	Characterizing the free ammonia exposure to the nutrients removal in activated sludge systems. RSC Advances, 2017, 7, 55088-55097.	1.7	13
1088	Enhancement mechanisms of short-time aerobic digestion for waste activated sludge in the presence of cocoamidopropyl betaine. Scientific Reports, 2017, 7, 13491.	1.6	27
1089	The importance of filamentous cyanobacteria in the development of oxygenic photogranules. Scientific Reports, 2017, 7, 17944.	1.6	78
1090	Influence of Pyrolytic Biochar on Settleability and Denitrification of Activated Sludge Process. Chinese Journal of Chemical Physics, 2017, 30, 357-364.	0.6	10
1091	Effects of the Food-to-Microorganism (F/M) Ratio on N2O Emissions in Aerobic Granular Sludge Sequencing Batch Airlift Reactors. Water (Switzerland), 2017, 9, 477.	1.2	11
1092	The Social Life of Aeromonas through Biofilm and Quorum Sensing Systems. Frontiers in Microbiology, 2017, 8, 37.	1.5	86

#	Article	IF	Citations
1093	Impact of selected non-steroidal anti-inflammatory pharmaceuticals on microbial community assembly and activity in sequencing batch reactors. PLoS ONE, 2017, 12, e0179236.	1.1	41
1095	Performance and microbial shift during acidification of a real pharmaceutical wastewater by using an anaerobic sequencing batch reactor (AnSBR). Journal of Environmental Management, 2018, 212, 186-197.	3.8	9
1096	Impact of cationic substances on biofilm formation from sieved fine particles of anaerobic granular sludge at high salinity. Bioresource Technology, 2018, 257, 69-75.	4.8	20
1097	Focusing manipulation of microalgae in a microfluidic device using self-produced macromolecules. Lab on A Chip, 2018, 18, 1017-1025.	3.1	8
1098	Impact of recharge water temperature on bioclogging during managed aquifer recharge: a laboratory study. Hydrogeology Journal, 2018, 26, 2173-2187.	0.9	10
1099	Post-treatment of anaerobic effluent containing 1,4-dioxane and heavy metals via auto-aerated down-flow hanging luffa (ADHL) system. Chemical Engineering Research and Design, 2018, 117, 22-32.	2.7	20
1100	Effects of temperature on anammox performance and community structure. Bioresource Technology, 2018, 260, 186-195.	4.8	114
1101	The action of chemical and mechanical stresses on single and dual species biofilm removal of drinking water bacteria. Science of the Total Environment, 2018, 631-632, 987-993.	3.9	31
1102	Direct solidâ€state evidence of H ₂ â€induced partial U(VI) reduction concomitant with adsorption by extracellular polymeric substances (EPS). Biotechnology and Bioengineering, 2018, 115, 1685-1693.	1.7	31
1103	Reduction of clog matter in constructed wetlands by metabolism of Eisenia foetida: Process and modeling. Environmental Pollution, 2018, 238, 803-811.	3.7	23
1104	Methanosarcina plays a main role during methanogenesis of high-solids food waste and cardboard. Waste Management, 2018, 76, 423-430.	3.7	38
1105	Effect of wastewater particles on catalytic ozonation in the advanced treatment of petrochemical secondary effluent. Chemical Engineering Journal, 2018, 345, 280-289.	6.6	42
1106	Role of extracellular polymeric substances in the acute inhibition of activated sludge by polystyrene nanoparticles. Environmental Pollution, 2018, 238, 859-865.	3.7	105
1107	Role of extracellular polymeric substances in biosorption of Pb2+ by a high metal ion tolerant fungal strain Aspergillus niger PTN31. Journal of Environmental Chemical Engineering, 2018, 6, 2733-2742.	3.3	34
1108	Fenton treatment of bio-treated fermentation-based pharmaceutical wastewater: removal and conversion of organic pollutants as well as estimation of operational costs. Environmental Science and Pollution Research, 2018, 25, 12083-12095.	2.7	15
1109	Nitrogen removal enhancement using lactic acid fermentation products from food waste as external carbon sources: Performance and microbial communities. Bioresource Technology, 2018, 256, 259-268.	4.8	59
1110	Extracellular DNA enhances the adsorption of Sulfobacillus thermosulfidooxidans strain ST on chalcopyrite surface. Hydrometallurgy, 2018, 176, 97-103.	1.8	33
1111	Unraveling the catalyzing behaviors of different iron species (Fe2+ vs. Fe0) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. Water Research, 2018, 134, 101-114.	5.3	202

#	Article	IF	CITATIONS
1112	Adsorption of cesium ion by marine actinobacterium Nocardiopsis sp. 13H and their extracellular polymeric substances (EPS) role in bioremediation. Environmental Science and Pollution Research, 2018, 25, 4254-4267.	2.7	23
1113	Auto-aggregation properties of a novel aerobic denitrifier Enterobacter sp. strain FL. Applied Microbiology and Biotechnology, 2018, 102, 2019-2030.	1.7	44
1114	Evaluating the effect of enzymatic pretreatment on the anaerobic digestibility of pulp and paper biosludge. Biotechnology Reports (Amsterdam, Netherlands), 2018, 17, 77-85.	2.1	42
1115	Microbial Communities on the Submerged Membranes in Full-Scale Membrane Bioreactors Treating Municipal Wastewater. Journal of Environmental Engineering, ASCE, 2018, 144, 04017084.	0.7	8
1116	Interpretation of the disparity in harvesting efficiency of different types of Microcystis aeruginosa using polyethylenimine (PEI)-coated magnetic nanoparticles. Algal Research, 2018, 29, 257-265.	2.4	29
1117	Effects of high-concentration influent suspended solids on aerobic granulation in pilot-scale sequencing batch reactors treating real domestic wastewater. Water Research, 2018, 131, 74-89.	5.3	68
1118	Effects of sample preservation and DNA extraction on enumeration of antibiotic resistance genes in wastewater. FEMS Microbiology Ecology, 2018, 94, .	1.3	33
1119	Emergence of a multi host biofilm forming opportunistic pathogen Staphylococcus sciuri D26 in coral Favites abdita. Microbial Pathogenesis, 2018, 120, 204-212.	1.3	6
1120	Ca 2+ -aided separation of polysaccharides and proteins by microfiltration: Implications for sludge processing. Separation and Purification Technology, 2018, 202, 318-325.	3.9	16
1121	Experimental and theoretical analyses on the impacts of ionic surfactants on sludge properties. Science of the Total Environment, 2018, 633, 198-205.	3.9	20
1122	Highly effective enhancement of waste activated sludge dewaterability by altering proteins properties using methanol solution coupled with inorganic coagulants. Water Research, 2018, 138, 181-191.	5.3	123
1123	Cultivation of microalgal biomass using swine manure for biohydrogen production: Impact of dilution ratio and pretreatment. Bioresource Technology, 2018, 260, 16-22.	4.8	50
1124	Co-digestion of untreated macro and microalgal biomass for biohydrogen production: Impact of inoculum augmentation and microbial insights. International Journal of Hydrogen Energy, 2018, 43, 11484-11492.	3.8	25
1125	Qualitative and quantitative spectrometric evaluation of soluble microbial products formation in aerobic granular sludge system treating nitrate wastewater. Bioprocess and Biosystems Engineering, 2018, 41, 841-850.	1.7	4
1126	Distribution Characteristics of Extracellular Polymeric Substance Extracted from Dewatered Sludge Treated with Enzymes and Thermal Pressure. Waste and Biomass Valorization, 2018, 9, 1523-1533.	1.8	4
1127	A comparative study of the influence of salt concentration on the performance of an osmotic membrane bioreactor and a sequencing batch reactor. Journal of Chemical Technology and Biotechnology, 2018, 93, 72-79.	1.6	5
1128	Inhibitory effect of high phenol concentration in treating coal gasification wastewater in anaerobic biofilter. Journal of Environmental Sciences, 2018, 64, 207-215.	3.2	36
1129	Long-term operation of oxygen-limiting membrane bioreactor (MBR) for the development of simultaneous partial nitrification, anammox and denitrification (SNAD) process. Environmental Technology (United Kingdom), 2018, 39, 2193-2202.	1.2	13

	Сітатіс	on Report	
#	Article	IF	CITATIONS
1130	Biosorption of Long Half-life Radionuclide of Strontium Ion (Sr ⁺) by Marine Actinobacterium <i>Nocardiopsis</i> sp. 13H. Geomicrobiology Journal, 2018, 35, 300-310.	1.0	12
1131	High-performing antifouling bacterial consortium for submerged membrane bioreactor treating synthetic wastewater. International Journal of Environmental Science and Technology, 2018, 15, 395-404.	1.8	6
1132	Conditioning of sewage sludge via combined ultrasonication-flocculation-skeleton building to improve sludge dewaterability. Ultrasonics Sonochemistry, 2018, 40, 353-360.	3.8	68
1133	Insights into sludge granulation during anaerobic treatment of high-strength leachate via a full-scale IC reactor with external circulation system. Journal of Environmental Sciences, 2018, 64, 227-234.	3.2	44
1134	Insight into the effect of organic and inorganic draw solutes on the flux stability and sludge characteristics in the osmotic membrane bioreactor. Bioresource Technology, 2018, 249, 758-766.	4.8	30
1135	Deep purification of low-strength ammonium-containing wastewater with ANRE process. Biochemical Engineering Journal, 2018, 129, 57-63.	1.8	5
1136	Development of sludge-derived mesoporous material with loaded nano CaO2 and doped Fe for re-utilization of dewatered waste-activated sludge as dewatering aids. Chemical Engineering Journal, 2018, 335, 161-168.	6.6	26
1137	Impacts of applied voltage on microbial electrolysis cell-anaerobic membrane bioreactor (MEC-AnMBR) and its membrane fouling mitigation mechanism. Chemical Engineering Journal, 2018, 333, 630-635.	6.6	108
1138	Microbial dynamics of biofilm and suspended flocs in anammox membrane bioreactor: The effect of non-woven fabric membrane. Bioresource Technology, 2018, 247, 259-266.	4.8	30
1139	Qualitatively and quantitatively assessing the aggregation ability of sludge during aerobic granulation process combined XDLVO theory with physicochemical properties. Journal of Environmental Sciences, 2018, 67, 154-160.	3.2	29
1140	Moving Bed Biofilm Reactor (MBBR). , 2018, , 37-74.		18
1141	Cationic proteins for enhancing biosludge dewaterability: A comparative assessment of surface and conditioning characteristics of synthetic polymers, surfactants and proteins. Separation and Purification Technology, 2018, 191, 200-207.	3.9	13
1142	Composition and functional group characterization of extracellular polymeric substances (EPS) in activated sludge: the impacts of polymerization degree of proteinaceous substrates. Water Research, 2018, 129, 133-142.	5.3	232
1143	Stabilizing interaction of exopolymers with nano-Se and impact on mercury immobilization in soil and groundwater. Environmental Science: Nano, 2018, 5, 456-466.	2.2	22
1144	Microbial consortia: a critical look at microalgae co-cultures for enhanced biomanufacturing. Critical Reviews in Biotechnology, 2018, 38, 690-703.	5.1	115
1145	Biological leachate treatment using anaerobic/aerobic process: suspended growth-activated sludge versus aerobic granular sludge. International Journal of Environmental Science and Technology, 2018, 15, 2295-2302.	1.8	22
1146	Bacterial community evolutions driven by organic matter and powder activated carbon in simultaneous anammox and denitrification (SAD) process. Bioresource Technology, 2018, 251, 13-21.	4.8	43
1147	Synergetic pretreatment of waste activated sludge by hydrodynamic cavitation combined with Fenton reaction for enhanced dewatering. Ultrasonics Sonochemistry, 2018, 42, 609-618.	3.8	49

#	Article	IF	CITATIONS
1148	Granulation and microbial community dynamics in the chitosan-supplemented anaerobic treatment of wastewater polluted with organic solvents. Water Research, 2018, 130, 376-387.	5.3	46
1149	Characteristics of different molecular weight EPS fractions from mixed culture dominated by AnAOB and their role in binding metal ions. Environmental Science and Pollution Research, 2018, 25, 5491-5500.	2.7	8
1150	Mechanism and performance of a self-flocculating marine bacterium in saline wastewater treatment. Chemical Engineering Journal, 2018, 334, 732-740.	6.6	56
1151	Effect of multilayer substrate configuration in horizontal subsurface flow constructed wetlands: assessment of treatment performance, biofilm development, and solids accumulation. Environmental Science and Pollution Research, 2018, 25, 1883-1891.	2.7	15
1152	An improved protocol for extracting extracellular polymeric substances from granular filter media. Water Research, 2018, 129, 419-427.	5.3	40
1153	Breakage–reflocculation implemented by two-stage shear for enhancing waste-activated sludge dewaterability: Effects of shear condition and extracellular polymeric substances. Drying Technology, 2018, 36, 418-434.	1.7	7
1154	Application of membrane bioreactor for sulfamethazine-contained wastewater treatment. Chemosphere, 2018, 193, 840-846.	4.2	33
1155	Improving the Dewaterability of Sewage Sludge Using Rice Husk and Fe ²⁺ -Sodium Persulfate Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 872-881.	3.2	32
1156	Different transport behaviors of Bacillus subtilis cells and spores in saturated porous media: Implications for contamination risks associated with bacterial sporulation in aquifer. Colloids and Surfaces B: Biointerfaces, 2018, 162, 35-42.	2.5	14
1157	Dewaterability of CAS and MBR Sludge: Effect of Biological Stability and EPS Composition. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	11
1158	Subtidal Microphytobenthos: A Secret Garden Stimulated by the Engineer Species Crepidula fornicata. Frontiers in Marine Science, 2018, 5, .	1.2	5
1159	Effects of potassium permanganate conditioning on dewatering and rheological behavior of pulping activated sludge: mechanism and feasibility. RSC Advances, 2018, 8, 41172-41180.	1.7	12
1160	Organic loading rate shock impact on extracellular polymeric substances and physicochemical characteristics of nitrifying sludge treating high-strength ammonia wastewater under unsteady-state conditions. RSC Advances, 2018, 8, 41681-41691.	1.7	12
1161	Effect of H2O2Oxidation/Alkaline Hydrolysis on Waste Activated Sludge Disintegration and Dewaterability. E3S Web of Conferences, 2018, 65, 05021.	0.2	1
1162	ULTRASONIC PRE-TREATMENT OF WASTEWATER SLUDGE FROM A MEAT PROCESSING INDUSTRY. Brazilian Journal of Chemical Engineering, 2018, 35, 909-918.	0.7	5
1163	Effect of Acidithiobacillus ferrooxidans on Humic-Acid Passivation Layer on Pyrite Surface. Minerals (Basel, Switzerland), 2018, 8, 422.	0.8	12
1164	Simultaneously enhanced biopolymers production and sludge dewaterability of waste activated sludge by synergetic integration process of short-time aerobic digestion with cocoamidopropyl betaine and calcium oxide. Chemosphere, 2018, 213, 541-550.	4.2	12
1165	Migration and transformation of phosphorus in municipal sludge by the hydrothermal treatment and its directional adjustment. Waste Management, 2018, 81, 196-201.	3.7	43

#	Article	IF	CITATIONS
1166	Ozonation and Depolymerization of Extracellular Polymeric Substances (EPS) Extracted from a Biofilter Treating Gaseous Toluene. Polymers, 2018, 10, 763.	2.0	7
1167	Temperature susceptibility of a mesophilic anaerobic membrane bioreactor treating saline phenol-containing wastewater. Chemosphere, 2018, 213, 92-102.	4.2	27
1168	The role of the operating parameters of SBR systems on the SMP production and on membrane fouling reduction. Journal of Environmental Management, 2018, 228, 205-212.	3.8	15
1169	Improvement of anaerobic digestion of sewage mixed sludge using free nitrous acid and Fenton pre-treatment. Biotechnology for Biofuels, 2018, 11, 233.	6.2	24
1170	Advanced biofilm staining techniques for TEM and SEM in geomicrobiology: Implications for visualizing EPS architecture, mineral nucleation, and microfossil generation. Chemical Geology, 2018, 498, 115-127.	1.4	41
1171	The effect of light intensity and shear stress on microbial biostabilization and the community composition of natural biofilms. Research and Reports in Biology, 0, Volume 9, 1-16.	0.2	8
1172	Investigation of the Fate and Dynamics of Extracellular Polymeric Substances (EPS) during Sludge-Based Photogranulation under Hydrostatic Conditions. Environmental Science & Technology, 2018, 52, 10462-10471.	4.6	35
1173	Spatial Configuration of Extracellular Organic Substances Responsible for the Biogas Conversion of Sewage Sludge. ACS Sustainable Chemistry and Engineering, 2018, 6, 8308-8316.	3.2	32
1174	Natural flocculants from fresh and saline wastewater: Comparative properties and flocculation performances. Chemical Engineering Journal, 2018, 349, 622-632.	6.6	55
1175	Pilot-scale study on catalytic ozonation of bio-treated dyeing and finishing wastewater using recycled waste iron shavings as a catalyst. Scientific Reports, 2018, 8, 7555.	1.6	23
1176	A New Concept of Promoting Nitrate Reduction in Surface Waters: Simultaneous Supplement of Denitrifiers, Electron Donor Pool, and Electron Mediators. Environmental Science & Technology, 2018, 52, 8617-8626.	4.6	38
1177	Combined sludge conditioning with NaCl-cationic polyacrylamide-rice husk powders to improve sludge dewaterability. Powder Technology, 2018, 336, 191-198.	2.1	23
1178	Impact of dosing order of the coagulant and flocculant on sludge dewatering performance during the conditioning process. Science of the Total Environment, 2018, 643, 1065-1073.	3.9	55
1179	Response of enhanced sludge methanogenesis by red mud to temperature: Spectroscopic and electrochemical elucidation of endogenous redox mediators. Water Research, 2018, 143, 240-249.	5.3	36
1180	Characterization and Production of Extracellular Polysaccharides (EPS) by Bacillus Pseudomycoides U10. Environments - MDPI, 2018, 5, 63.	1.5	22
1181	Understanding and optimization of the flocculation process in biological wastewater treatment processes: A review. Chemosphere, 2018, 210, 401-416.	4.2	49
1182	Value-Added Products Derived from Waste Activated Sludge: A Biorefinery Perspective. Water (Switzerland), 2018, 10, 545.	1.2	40
1183	Different bacterial species and their extracellular polymeric substances (EPSs) significantly affected reverse osmosis (RO) membrane fouling potentials in wastewater reclamation. Science of the Total Environment, 2018, 644, 486-493.	3.9	37

#	Article	IF	CITATIONS
1184	Effect of high salinity in wastewater on surface properties of anammox granular sludge. Chemosphere, 2018, 210, 366-375.	4.2	69
1185	Optimization of integrated ultrasonic-Fenton system for metal removal and dewatering of anaerobically digested sludge by Box-Behnken design. Science of the Total Environment, 2018, 645, 573-584.	3.9	57
1186	Combined CdS nanoparticles-assisted photocatalysis and periphytic biological processes for nitrate removal. Chemical Engineering Journal, 2018, 353, 237-245.	6.6	84
1187	Evaluating the role of total organic carbon in predicting the treatment efficacy of biosand filters for the removal of Vibrio cholerae in drinking water during startup. Journal of Applied Microbiology, 2018, 125, 917-928.	1.4	4
1188	A new approach for excess sludge reduction by manganese dioxide oxidation: performance, kinetics, and mechanism studies. Environmental Science and Pollution Research, 2018, 25, 29356-29365.	2.7	13
1189	Cultivation and stable operation of aerobic granular sludge at low temperature by sieving out the batt-like sludge. Chemosphere, 2018, 211, 1219-1227.	4.2	49
1190	Free-conditioning dewatering of sewage sludge through in situ propane hydrate formation. Water Research, 2018, 145, 464-472.	5.3	25
1191	Cellular and compositional insight into the sludge dewatering process using enzyme treatment. Environmental Science and Pollution Research, 2018, 25, 28942-28953.	2.7	11
1192	The treatment of flowback water in a sequencing batch reactor with aerobic granular sludge: Performance and microbial community structure. Chemosphere, 2018, 211, 1065-1072.	4.2	25
1193	In situ generation of zero valent iron for enhanced hydroxyl radical oxidation in an electrooxidation system for sewage sludge dewatering. Water Research, 2018, 145, 162-171.	5.3	64
1194	Efficient production of short-chain fatty acids from anaerobic fermentation of liquor wastewater and waste activated sludge by breaking the restrictions of low bioavailable substrates and microbial activity. Bioresource Technology, 2018, 268, 549-557.	4.8	46
1195	Membrane filtration-based recovery of extracellular polymer substances from excess sludge and analysis of their heavy metal ion adsorption properties. Chemical Engineering Journal, 2018, 354, 866-874.	6.6	39
1196	Performance and kinetic model of degradation on treating pharmaceutical solvent wastewater at psychrophilic condition by a pilot-scale anaerobic membrane bioreactor. Bioresource Technology, 2018, 269, 319-328.	4.8	18
1197	A comprehensive review on harvesting of microalgae for biodiesel – Key challenges and future directions. Renewable and Sustainable Energy Reviews, 2018, 91, 1103-1120.	8.2	211
1198	Influence of organic matter type in wastewater on soluble microbial products production and on further ultrafiltration. Journal of Chemical Technology and Biotechnology, 2018, 93, 3284-3291.	1.6	5
1199	Sludge dewaterability of a starch-based flocculant and its combined usage with ferric chloride. Chemical Engineering Journal, 2018, 349, 737-747.	6.6	87
1200	Pre-treatments to enhance the biodegradability of waste activated sludge: Elucidating the rate limiting step. Biotechnology Advances, 2018, 36, 1434-1469.	6.0	177
1201	Effect of CaO2 addition on anaerobic digestion of waste activated sludge at different temperatures and the promotion of valuable carbon source production under ambient condition. Bioresource Technology, 2018, 265, 247-256.	4.8	72

#	Article	IF	CITATIONS
1202	Biofilm monitoring as a tool to assess the efficiency of artificial reefs as substrates: Toward 3D printed reefs. Ecological Engineering, 2018, 120, 230-237.	1.6	17
1203	Mechanism insights into bio-floc bound water transformation based on synchrotron X-ray computed microtomography and viscoelastic acoustic response analysis. Water Research, 2018, 142, 480-489.	5.3	42
1204	Transesterification of Waste Activated Sludge for Biosolids Reduction and Biodiesel Production. Water Environment Research, 2018, 90, 180-186.	1.3	8
1205	Deep dewatering process of sludge by chemical conditioning and its potential influence on wastewater treatment plants. Environmental Science and Pollution Research, 2019, 26, 33838-33846.	2.7	13
1206	Optimization of a single chamber microbial fuel cell using Lactobacillus pentosus: Influence of design and operating parameters. Science of the Total Environment, 2019, 648, 263-270.	3.9	47
1207	Effects of extra-cellular polymeric substances towards physical properties of biomass under magnetic field exposure. International Journal of Environmental Science and Technology, 2019, 16, 3801-3808.	1.8	10
1208	Extraction of extracellular polymeric substances of activated sludge and their application for wastewater treatment. IOP Conference Series: Earth and Environmental Science, 2019, 302, 012018.	0.2	1
1209	Impact of EPS and chitosan combination on enhancement of anaerobic granule quality during simultaneous microbial adaptation and granulation. Journal of Chemical Technology and Biotechnology, 2019, 94, 3725-3735.	1.6	10
1210	Formation and characterization of the micro-size granular sludge in denitrifying sulfur-conversion associated enhanced biological phosphorus removal (DS-EBPR) process. Bioresource Technology, 2019, 291, 121871.	4.8	4
1211	Response of microbes to biochar strengthen nitrogen removal in subsurface flow constructed wetlands: Microbial community structure and metabolite characteristics. Science of the Total Environment, 2019, 694, 133687.	3.9	77
1212	Performance evaluation of a hybrid sequencing batch reactor under saline and hyper saline conditions. Journal of Biological Engineering, 2019, 13, 64.	2.0	6
1213	Evaluating the effects of the preoxidation of H2O2, NaClO, and KMnO4 and reflocculation on the dewaterability of sewage sludge. Chemosphere, 2019, 234, 942-952.	4.2	47
1214	The impact of biodegradable carbon sources on microbial clogging of vertical up-flow sand filters treating inorganic nitrogen wastewater. Science of the Total Environment, 2019, 691, 360-366.	3.9	12
1215	Identification and nitrogen removal characteristics of Thauera sp. FDN-01 and application in sequencing batch biofilm reactor. Science of the Total Environment, 2019, 690, 61-69.	3.9	36
1216	Disposal of Fenton sludge with anaerobic digestion and the roles of humic acids involved in Fenton sludge. Water Research, 2019, 163, 114900.	5.3	61
1217	Strengthened dewaterability of coke-oven plant oily sludge by altering extracellular organics using Fe(II)-activated persulfate oxidation. Science of the Total Environment, 2019, 688, 1155-1161.	3.9	26
1218	Enhanced denitrification performance and biocatalysis mechanisms of polyoxometalates as environmentally-friendly inorganic redox mediators. Bioresource Technology, 2019, 291, 121816.	4.8	43
1219	Effects of High Sludge Cycle Frequency on Performance and Syntrophic Metabolism of Anaerobic Membrane Bioreactor for Treating High-Lipid Kitchen Waste Slurry. Energies, 2019, 12, 2673.	1.6	3

#	Article	IF	CITATIONS
1220	A Rapid Fenton treatment of bio-treated dyeing and finishing wastewater at second-scale intervals: kinetics by stopped-flow technique and application in a full-scale plant. Scientific Reports, 2019, 9, 9689.	1.6	12
1221	Molecular insight into electron transfer properties of extracellular polymeric substances of electroactive bacteria by surface-enhanced Raman spectroscopy. Science China Technological Sciences, 2019, 62, 1679-1687.	2.0	26
1222	Interactions between tetracycline and extracellular polymeric substances in anammox granular sludge. Bioresource Technology, 2019, 293, 122069.	4.8	23
1223	Enhanced waste activated sludge dewaterability by tannic acid conditioning: Efficacy, process parameters, role and mechanism studies. Journal of Cleaner Production, 2019, 241, 118287.	4.6	39
1224	Effects of chlorine disinfection on the membrane fouling potential of bacterial strains isolated from fouled reverse osmosis membranes. Science of the Total Environment, 2019, 693, 133579.	3.9	32
1225	Effect of additional food waste slurry generated by mesophilic acidogenic fermentation on nutrient removal and sludge properties during wastewater treatment. Bioresource Technology, 2019, 294, 122218.	4.8	20
1226	Investigation on Characteristics of Microwave Treatment of Organic Matter in Municipal Dewatered Sludge. Applied Sciences (Switzerland), 2019, 9, 1175.	1.3	2
1227	Role of extracellular polymeric substances in biofilm formation by Pseudomonas stutzeri strain XL-2. Applied Microbiology and Biotechnology, 2019, 103, 9169-9180.	1.7	25
1228	A comprehensive review on microalgal harvesting strategies: Current status and future prospects. Algal Research, 2019, 44, 101683.	2.4	82
1229	Sludge dewaterability: The variation of extracellular polymeric substances during sludge conditioning with two natural organic conditioners. Journal of Environmental Management, 2019, 251, 109559.	3.8	11
1230	Membrane fouling and performance of anaerobic ceramic membrane bioreactor treating phenol- and quinoline-containing wastewater: granular activated carbon vs polyaluminum chloride. Environmental Science and Pollution Research, 2019, 26, 34167-34176.	2.7	16
1231	Aerobic granular sludge operation and nutrients removal mechanism in a novel configuration reactor combined sequencing batch reactor and continuous-flow reactor. Bioresource Technology, 2019, 292, 122024.	4.8	31
1232	Microbial Origin of Excreted DNA in Particular Fractions of Extracellular Polymers (EPS) in Aerobic Granules. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	11
1233	Insight into a new two-step approach of ozonation and chitosan conditioning for sludge deep-dewatering. Science of the Total Environment, 2019, 697, 134032.	3.9	39
1234	Soil biofilm formation enhances microbial community diversity and metabolic activity. Environment International, 2019, 132, 105116.	4.8	80
1235	Altering Extracellular Biopolymers and Water Distribution of Waste Activated Sludge by Fe(II) Persulfate Oxidation with Natural Zeolite and Polyelectrolyte as Skeleton Builders for Positive Feedbacks to Dewaterability. ACS Sustainable Chemistry and Engineering, 2019, 7, 16549-16559.	3.2	15
1236	Quorum sensing control and wastewater treatment in quorum quenching/ submerged membrane electro-bioreactor (SMEBR(QQ)) hybrid system. Biomass and Bioenergy, 2019, 128, 105329.	2.9	8
1237	Layered Extraction and Adsorption Performance of Extracellular Polymeric Substances from Activated Sludge in the Enhanced Biological Phosphorus Removal Process. Molecules, 2019, 24, 3358.	1.7	9

#	Article	IF	CITATIONS
1238	Biological characteristics of microorganisms immobilization media for nitrogen removal. Journal of Water Process Engineering, 2019, 32, 100979.	2.6	9
1239	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. Renewable and Sustainable Energy Reviews, 2019, 115, 109392.	8.2	103
1240	Use of the osmotic membrane bioreactor for the management of tannery wastewater using absorption liquid waste as draw solution. Chemical Engineering Research and Design, 2019, 131, 292-299.	2.7	11
1241	An electrokinetic perspective into the mechanism of divalent and trivalent cation sorption by extracellular polymeric substances of Pseudomonas fluorescens. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110450.	2.5	11
1242	Characteristics of a Self-Forming Dynamic Membrane Coupled with a Bioreactor in Application of Anammox Processes. Environmental Science & amp; Technology, 2019, 53, 13158-13167.	4.6	23
1243	Influence of Extracellular Polymeric Substances on the Adsorption of Cadmium onto Three Bacterial Species. Geomicrobiology Journal, 2019, 36, 412-422.	1.0	8
1244	Effective gel-like floc matrix destruction and water seepage for enhancing waste activated sludge dewaterability under hybrid microwave-initiated Fe(II)-persulfate oxidation process. Chemosphere, 2019, 221, 141-153.	4.2	62
1245	A holistic analysis of ANAMMOX process in response to salinity: From adaptation to collapse. Separation and Purification Technology, 2019, 215, 342-350.	3.9	78
1246	Evaluating the effect of antiscalants on membrane biofouling using FTIR and multivariate analysis. Biofouling, 2019, 35, 1-14.	0.8	38
1247	Characterization of interactions between a metabolic uncoupler O-chlorophenol and extracellular polymeric substances of activated sludge. Environmental Pollution, 2019, 247, 1020-1027.	3.7	26
1248	Assessment of the Sludge Reduction of the Metabolic Uncoupler 3,3′,4′,5-tetrachlorosalicylanilide (TCS) in Activated Sludge Culture. International Journal of Environmental Research and Public Health, 2019, 16, 1686.	1.2	5
1249	Enhanced aerobic sludge granulation by applying carbon fibers as nucleating skeletons. Chemical Engineering Journal, 2019, 373, 946-954.	6.6	41
1250	Free nitrous acid pretreatment of sludge to achieve nitritation: The effect of sludge concentration. Bioresource Technology, 2019, 285, 121358.	4.8	13
1251	Extraction of extracellular polymeric substances (EPS) from red soils (Ultisols). Soil Biology and Biochemistry, 2019, 135, 283-285.	4.2	28
1252	Partial characterization of cyanobacterial extracellular polymeric substances for aquatic ecosystems. Aquatic Ecology, 2019, 53, 431-440.	0.7	21
1253	Hydrocyclone-induced pretreatment for sludge solubilization to enhance anaerobic digestion. Chemical Engineering Journal, 2019, 374, 1364-1372.	6.6	39
1254	Comparison of extracellular polymeric substance (EPS) in nitrification and nitritation bioreactors. International Biodeterioration and Biodegradation, 2019, 143, 104713.	1.9	46
1255	Performance of microaerobic granular sludge system for pentachlorophenol (PCP) degradation responding to PCP loading shock. Nordic Pulp and Paper Research Journal, 2019, 34, 138-146.	0.3	0

#	Article	IF	CITATIONS
1256	Impact of osmotic backwashing, particle size distribution and feed-side cross-flow velocity on flux in the forward osmosis membrane bioreactor (FO-MBR). Journal of Water Process Engineering, 2019, 31, 100861.	2.6	17
1257	Microbial action and mechanisms for Cr(VI) removal performance by layered double hydroxide modified zeolite and quartz sand in constructed wetlands. Journal of Environmental Management, 2019, 246, 636-646.	3.8	36
1258	Treatment of polluted surface water with nylon silk carrier-aerated biofilm reactor (CABR). Bioresource Technology, 2019, 289, 121617.	4.8	20
1259	Towards a cleaner wastewater treatment: Influence of folic acid addition on sludge reduction and biomass characteristics. Journal of Cleaner Production, 2019, 232, 858-866.	4.6	19
1260	After the Taxonomic Identification Phase: Addressing the Functions of Symbiotic Communities Within Marine Invertebrates. , 2019, , 105-144.		2
1261	Overcoming the instability of aerobic granular sludge under nitrogen deficiency through shortening settling time. Bioresource Technology, 2019, 289, 121620.	4.8	18
1262	CO2 promotes the conjugative transfer of multiresistance genes by facilitating cellular contact and plasmid transfer. Environment International, 2019, 129, 333-342.	4.8	60
1263	Insight into the fenton-induced degradation process of extracellular polymeric substances (EPS) extracted from activated sludge. Chemosphere, 2019, 234, 318-327.	4.2	28
1264	Sludge char-to-fuel approaches based on the pyrolysis III: Adding protein without dehydration. Waste Management, 2019, 93, 47-53.	3.7	2
1265	Extraction of Extracellular Matrix in Static and Dynamic Candida Biofilms Using Cation Exchange Resin and Untargeted Analysis of Matrix Metabolites by Ultra-High-Performance Liquid Chromatography-Tandem Quadrupole Time-of-Flight Mass Spectrometry (UPLC-Q-TOF-MS). Frontiers in Microbiology. 2019. 10. 752.	1.5	1
1266	Soluble substrate removal determination through intracellular storage in high-rate activated sludge systems using stoichiometric mass balance approach. New Biotechnology, 2019, 52, 84-93.	2.4	8
1267	Hormesis effects of phosphorus on the viability of Chlorella regularis cells under nitrogen limitation. Biotechnology for Biofuels, 2019, 12, 121.	6.2	30
1268	Enzyme immobilization in cage-like 3D-network PVA-H and GO modified PVA-H (GO@PVA-H) with stable conformation and high activity. Chemical Engineering Journal, 2019, 372, 946-955.	6.6	33
1269	Recent developments on thermal municipal sludge pretreatment technologies for enhanced anaerobic digestion. Renewable and Sustainable Energy Reviews, 2019, 110, 423-443.	8.2	156
1270	Role of Cationization in Bioflocculant Efficiency: a Review. Environmental Processes, 2019, 6, 355-376.	1.7	18
1271	Synergistic effect and biodegradation kinetics of sewage sludge and food waste mesophilic anaerobic co-digestion and the underlying stimulation mechanisms. Fuel, 2019, 253, 40-49.	3.4	75
1272	Impact of sludge recirculation ratios on the performance of anaerobic membrane bioreactor for wastewater treatment. Bioresource Technology, 2019, 288, 121473.	4.8	22
1273	Enhanced adsorption of Zn2+ by salinity-aided aerobic granular sludge: Performance and binding mechanism. Journal of Environmental Management, 2019, 242, 266-271.	3.8	25

#	Article	IF	CITATIONS
1274	Membrane fouling caused by lipopolysaccharides: A suggestion for alternative model polysaccharides for MBR fouling research. Separation and Purification Technology, 2019, 223, 224-233.	3.9	26
1275	Regulating Secretion of Extracellular Polymeric Substances through Dosing Magnetite and Zerovalent Iron Nanoparticles To Affect Anaerobic Digestion Mode. ACS Sustainable Chemistry and Engineering, 2019, 7, 9655-9662.	3.2	74
1276	Phosphate depletion controls lipid content and accumulation of heterotrophic bacteria during growth of Synechocystis sp. PCC 6803. Applied Microbiology and Biotechnology, 2019, 103, 5007-5014.	1.7	6
1277	Impact of molecular structure and charge property of chitosan based polymers on flocculation conditioning of advanced anaerobically digested sludge for dewaterability improvement. Science of the Total Environment, 2019, 670, 98-109.	3.9	36
1278	Evaluation of the effect of agitation speed on the growth and highâ€value LCâ€PUFA formation of <scp><i>Porphyridium cruentum</i></scp> based on basic rheological analysis. Journal of Chemical Technology and Biotechnology, 2019, 94, 2158-2166.	1.6	6
1279	Pre-coagulation coupled with sponge-membrane filtration for organic matter removal and membrane fouling control during drinking water treatment. Water Research, 2019, 157, 155-166.	5.3	72
1280	Mechanism analysis to improve sludge dewaterability during anaerobic digestion based on moisture distribution. Chemosphere, 2019, 227, 247-255.	4.2	24
1281	Effects of NaCl and phenol on anammox performance in mainstream reactors with low nitrogen concentration and low temperature. Biochemical Engineering Journal, 2019, 147, 72-80.	1.8	14
1282	Effect of divalent nickel on the anammox process in a UASB reactor. Chemosphere, 2019, 226, 934-944.	4.2	20
1283	Enhanced photo-fermentative hydrogen production by synergistic effects of formed biofilm and added L-cysteine. Renewable Energy, 2019, 139, 643-650.	4.3	16
1284	Insights into the effects of acidification on sewage sludge dewaterability through pH repeated adjustment. Chemosphere, 2019, 227, 269-276.	4.2	46
1285	Chemical characterization methods for the analysis of structural extracellular polymeric substances (EPS). Water Research, 2019, 157, 201-208.	5.3	192
1286	Bioremediation of Sr ²⁺ ion radionuclide by using marine <i>Streptomyces</i> sp. CuOff24 extracellular polymeric substances. Journal of Chemical Technology and Biotechnology, 2020, 95, 893-903.	1.6	9
1287	Extraction of extracellular polymeric substances (EPS) from a newly isolated self-flocculating microalga Neocystis mucosa SX with different methods. Algal Research, 2019, 40, 101479.	2.4	27
1288	A flow cytometry method for bacterial quantification and biomass estimates in activated sludge. Journal of Microbiological Methods, 2019, 160, 73-83.	0.7	40
1289	Removal of selenate and cadmium by anaerobic granular sludge: EPS characterization and microbial community analysis. Chemical Engineering Research and Design, 2019, 126, 150-159.	2.7	25
1290	Unraveling the water states of waste-activated sludge through transverse spin-spin relaxation time of low-field NMR. Water Research, 2019, 155, 266-274.	5.3	43
1291	Effects of cerium oxide nanoparticles on bacterial growth and behaviors: induction of biofilm formation and stress response. Environmental Science and Pollution Research, 2019, 26, 9293-9304.	2.7	26

#	Article	IF	CITATIONS
1292	Analysis of Pseudomonas aeruginosa biofilm membrane vesicles supports multiple mechanisms of biogenesis. PLoS ONE, 2019, 14, e0212275.	1.1	92
1293	The role of microbial quorum sensing on the characteristics and functionality of bioflocs in aquaculture systems. Aquaculture, 2019, 504, 420-426.	1.7	22
1294	Variations in macro and micro physicochemical properties of activated sludge under a moderate oxidation-in situ coagulation conditioning: Relationship between molecular structure and dewaterability. Water Research, 2019, 155, 245-254.	5.3	87
1295	Enhancement of biological fermented sludge dewaterability by inoculation of filamentous fungi <i>Mucor circinelloides</i> XY-Z and <i>Penicillium oxalicum</i> LY-1. Drying Technology, 2019, 37, 1678-1687.	1.7	7
1296	Enhanced Effects of Tourmaline on Moving Bed Biofilm Reactor–Based Partial Nitrification Process. Journal of Environmental Engineering, ASCE, 2019, 145, 04019009.	0.7	2
1297	Effects of acid-heat combined treatment on sludge dewatering performance at low temperature. E3S Web of Conferences, 2019, 136, 06037.	0.2	1
1298	A simple way to improve a conventional A/O-MBR for high simultaneous carbon and nutrient removal from synthetic municipal wastewater. PLoS ONE, 2019, 14, e0214976.	1.1	9
1299	Growth Progression of Oxygenic Photogranules and Its Impact on Bioactivity for Aeration-Free Wastewater Treatment. Environmental Science & Technology, 2020, 54, 486-496.	4.6	58
1301	Mass transfer affects reactor performance, microbial morphology, and community succession in the methane-dependent denitrification and anaerobic ammonium oxidation co-culture. Science of the Total Environment, 2019, 651, 291-297.	3.9	27
1302	Identification and role of Opuntia ficus indica constituents in the flocculation mechanism of colloidal solutions. Separation and Purification Technology, 2019, 209, 892-899.	3.9	21
1303	Thiothrix eikelboomii interferes oxygen transfer in activated sludge. Water Research, 2019, 151, 134-143.	5.3	63
1304	Sludge dewaterability by dual conditioning using Fenton's reagent with Moringa oleifera. Journal of Environmental Chemical Engineering, 2019, 7, 102838.	3.3	6
1305	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. Bioresource Technology, 2019, 275, 163-171.	4.8	88
1306	Oil reservoirs, an exceptional habitat for microorganisms. New Biotechnology, 2019, 49, 1-9.	2.4	134
1307	Cocoamidopropyl Betaine Dosage Dependence of Short-Time Aerobic Digestion for Waste-Activated Sludge Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 877-884.	3.2	4
1308	Dynamic characteristics of soluble microbial products in a granular sludge reactor. Journal of Cleaner Production, 2019, 212, 576-581.	4.6	19
1309	Effect of nitrogen deficiency on the stability of aerobic granular sludge. Bioresource Technology, 2019, 275, 307-313.	4.8	31
1310	Characterization of changes in extracellular polymeric substances and heavy metal speciation of waste activated sludge during typical oxidation solubilization processes. Journal of Environmental Sciences, 2019, 80, 146-158.	3.2	16

#	Article	IF	CITATIONS
1311	New insights into the effect of thermal treatment on sludge dewaterability. Science of the Total Environment, 2019, 656, 1082-1090.	3.9	47
1312	New horizons in culture and valorization of red microalgae. Biotechnology Advances, 2019, 37, 193-222.	6.0	85
1313	Rapid reformation of larger aerobic granular sludge in an internal-circulation membrane bioreactor after long-term operation: Effect of short-time aeration. Bioresource Technology, 2019, 273, 462-467.	4.8	18
1314	Combined use of inorganic coagulants and cationic polyacrylamide for enhancing dewaterability of sewage sludge. Journal of Cleaner Production, 2019, 211, 387-395.	4.6	72
1315	Enhancement of dewaterability and heavy metals solubilization of waste activated sludge conditioned by natural vanadium-titanium magnetite-activated peroxymonosulfate oxidation with rice husk. Chemical Engineering Journal, 2019, 359, 217-224.	6.6	55
1316	In-situ power generation and nutrients recovery from waste activated sludge – Long-term performance and system optimization. Chemical Engineering Journal, 2019, 361, 1207-1214.	6.6	22
1317	Effective Anaerobic Bio-Treatment of Fresh Leachate From Municipal Solid Waste Incineration Plant by Full-Scale Internal Circulation Reactor. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	0
1318	Linking Exoproteome Function and Structure to Anammox Biofilm Development. Environmental Science & Technology, 2019, 53, 1490-1500.	4.6	77
1319	Treatment of Liquid Phase of Digestate from Agricultural Biogas Plant in a System with Aerobic Granules and Ultrafiltration. Water (Switzerland), 2019, 11, 104.	1.2	10
1320	Flocculation-dewatering behavior of waste activated sludge particles under chemical conditioning with inorganic polymer flocculant: Effects of typical sludge properties. Chemosphere, 2019, 218, 930-940.	4.2	51
1321	Bulk pH and Carbon Source Are Key Factors for Calcium Phosphate Granulation. Environmental Science & Technology, 2019, 53, 1334-1343.	4.6	15
1322	Colloids, flocculation and carbon capture – a comprehensive plant-wide model. Water Science and Technology, 2019, 79, 15-25.	1.2	10
1323	The effects of biocarriers on the mixed liquor characteristics, extracellular polymeric substances, and fouling rates of a hybrid membrane bioreactor. Biochemical Engineering Journal, 2019, 141, 278-284.	1.8	16
1324	Evaluation of acidification and oxidation of sludge to improve the effect of a starch-based flocculant on the dewaterability of sewage sludge. Journal of Environmental Management, 2019, 231, 405-412.	3.8	23
1325	Overcoming challenges in mainstream Anammox applications: Utilization of nanoscale zero valent iron (nZVI). Science of the Total Environment, 2019, 651, 3023-3033.	3.9	40
1326	Continuous biological removal of selenate in the presence of cadmium and zinc in UASB reactors at psychrophilic and mesophilic conditions. Biochemical Engineering Journal, 2019, 141, 102-111.	1.8	20
1327	Unraveling oxidation behaviors for intracellular and extracellular from different oxidants (HOCl vs.) Tj ETQq0 0 0 r 60-69.	gBT /Over 5.3	lock 10 Tf 50 130
1328	Potential of Crystalline and Amorphous Ferric Oxides for Biostimulation of Anaerobic Digestion. ACS Sustainable Chemistry and Engineering, 2019, 7, 697-708.	3.2	58

#	Article	IF	CITATIONS
1329	Changes in extracellular polymeric substances (EPS) content and composition in aerobic granule size-fractions during reactor cycles at different organic loads. Bioresource Technology, 2019, 272, 188-193.	4.8	68
1330	Effects of light intensity on biomass, carbohydrate and fatty acid compositions of three different mixed consortia from natural ecological water bodies. Journal of Environmental Management, 2019, 230, 293-300.	3.8	16
1331	Nutrients removal performance and sludge properties using anaerobic fermentation slurry from food waste as an external carbon source for wastewater treatment. Bioresource Technology, 2019, 271, 125-135.	4.8	79
1332	pH dependent of the waste activated sludge reduction by short-time aerobic digestion (STAD) process. Science of the Total Environment, 2019, 649, 1307-1313.	3.9	11
1333	Influence of Al(III) on biofilm and its extracellular polymeric substances in sequencing batch biofilm reactors. Environmental Technology (United Kingdom), 2019, 40, 53-59.	1.2	8
1334	How the nature of the compounds present in solid and liquid compartments of activated sludge impact its rheological characteristics. Environmental Technology (United Kingdom), 2019, 40, 60-71.	1.2	6
1335	Enhancing the auto-flocculation of photosynthetic bacteria to realize biomass recovery in brewery wastewater treatment. Environmental Technology (United Kingdom), 2019, 40, 2147-2156.	1.2	13
1336	Impact of sodium ion on multivalent metal ion content in extracellular polymeric substances of granular sludge from an expanded granular sludge bed. Environmental Technology (United Kingdom), 2019, 40, 3105-3113.	1.2	8
1337	Insight into the distribution of metallic elements in membrane bioreactor: Influence of operational temperature and role of extracellular polymeric substances. Journal of Environmental Sciences, 2019, 76, 111-120.	3.2	9
1338	Effect of starvation on the nitrification performance of constructed rapid infiltration systems. Environmental Technology (United Kingdom), 2019, 40, 1408-1417.	1.2	7
1339	Evaluation of treatment performance of a full-scale membrane bioreactor (MBR) plant from unsteady to steady state condition. Journal of Water Process Engineering, 2019, 30, 100379.	2.6	13
1340	Biokinetic and biotransformation of nitrogen during photosynthetic bacteria wastewater treatment. Environmental Technology (United Kingdom), 2020, 41, 1888-1895.	1.2	4
1341	Effects of alginate immobilization on dynamic membrane formation and H2 fermentation from galactose. International Journal of Hydrogen Energy, 2020, 45, 5874-5880.	3.8	15
1342	Photosensitive cellular polymeric substances accelerate 17α-ethinylestradiol photodegradation. Chemical Engineering Journal, 2020, 381, 122737.	6.6	10
1343	Start-up of aerobic granular biofilm at low temperature: Performance and microbial community dynamics. Science of the Total Environment, 2020, 698, 134311.	3.9	24
1344	Efficient dewatering of polymer-rich aerobic granular sludge with cationic polymer containing hydrocarbons. International Journal of Environmental Science and Technology, 2020, 17, 361-370.	1.8	9
1345	Viscosity dynamics and the production of extracellular polymeric substances and soluble microbial products during anaerobic digestion of pulp and paper mill wastewater sludges. Bioprocess and Biosystems Engineering, 2020, 43, 283-291.	1.7	8
1346	Formation of microbial products by activated sludge in the presence of a metabolic uncoupler o-chlorophenol in long-term operated sequencing batch reactors. Journal of Hazardous Materials, 2020, 384, 121311.	6.5	29

#	Article	IF	CITATIONS
1347	The performance and degradation mechanism of sulfamethazine from wastewater using IFAS-MBR. Chinese Chemical Letters, 2020, 31, 543-546.	4.8	23
1348	Behaviors of dewaterability and heavy metals of wasteÂactivated sludge conditioned by heat-activated peroxymonosulfate oxidation. Chemical Papers, 2020, 74, 641-650.	1.0	10
1349	New insight on the combined effects of hydrothermal treatment and FeSO4/Ca(ClO)2 oxidation for sludge dewaterability improvement: From experimental to theoretical investigation. Fuel Processing Technology, 2020, 197, 106196.	3.7	22
1350	Performance and mechanisms of wastewater sludge conditioning withÂslag-based hydrotalcite-like minerals (Ca/Mg/Al-LDH). Water Research, 2020, 169, 115265.	5.3	57
1351	Reuse of olive mill wastewater as a bioflocculant for water treatment processes. Journal of Cleaner Production, 2020, 246, 119031.	4.6	12
1352	Characterization of stratified EPS and their role in the initial adhesion of anammox consortia. Water Research, 2020, 169, 115223.	5.3	201
1353	Effect of complexing agents on phosphorus release from chemical-enhanced phosphorus removal sludge during anaerobic fermentation. Bioresource Technology, 2020, 301, 122745.	4.8	40
1354	Cultivation substrata differentiate the properties of river biofilm EPS and their binding of heavy metals: A spectroscopic insight. Environmental Research, 2020, 182, 109052.	3.7	42
1355	Improvement of the sludge flocculation dewatering efficient by electromagnetic wave loading: research based on removal of bound water. Environmental Science and Pollution Research, 2020, 27, 3413-3427.	2.7	11
1356	Promoting the granulation process of aerobic granular sludge in an integrated moving bed biofilm-membrane bioreactor under a continuous-flowing mode. Science of the Total Environment, 2020, 703, 135482.	3.9	30
1357	Aggregation-dependent electron transfer via redox-active biochar particles stimulate microbial ferrihydrite reduction. Science of the Total Environment, 2020, 703, 135515.	3.9	57
1358	Metagenomic characterization of the enhanced performance of anaerobic fermentation of waste activated sludge with CaO2 addition at ambient temperature: Fatty acid biosynthesis metabolic pathway and CAZymes. Water Research, 2020, 170, 115309.	5.3	88
1359	Overexpression of a Rice Monosaccharide Transporter Gene (OsMST6) Confers Enhanced Tolerance to Drought and Salinity Stress in Arabidopsis thaliana. Plant Molecular Biology Reporter, 2020, 38, 151-164.	1.0	20
1360	Understanding the role of extracellular polymeric substances in the rheological properties of aerobic granular sludge. Science of the Total Environment, 2020, 705, 135948.	3.9	64
1361	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. Chemosphere, 2020, 243, 125421.	4.2	38
1362	Perspective on enhancing the anaerobic digestion of waste activated sludge. Journal of Hazardous Materials, 2020, 389, 121847.	6.5	160
1363	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. Journal of Industrial and Engineering Chemistry, 2020, 83, 46-52.	2.9	29
1364	Determination of monosaccharides hydrolyzed from polysaccharides in activated sludge by ion chromatography–mass spectrometry with online pretreatment of column switching technique. Analytical and Bioanalytical Chemistry, 2020, 412, 8061-8071.	1.9	2

#	Article	IF	CITATIONS
1365	Exploring Particle Aggregation Using Small Angle Scattering Techniques. ACS Symposium Series, 2020, , 201-257.	0.5	2
1366	Genome-Centric Metagenomic Insights into the Impact of Alkaline/Acid and Thermal Sludge Pretreatment on the Microbiome in Digestion Sludge. Applied and Environmental Microbiology, 2020, 86, .	1.4	12
1367	Exopolysaccharides in the rhizosphere: A comparative study of extraction methods. Application to their quantification in Mediterranean soils. Soil Biology and Biochemistry, 2020, 149, 107961.	4.2	12
1368	Characterization of aerobic granules formed in an aspartic acid fed sequencing batch reactor under unfavorable hydrodynamic selection conditions. Chemosphere, 2020, 260, 127600.	4.2	9
1369	Development of a Quartz Sand Protocol for Exoproteome Exploration from Anammox Consortia. ACS Sustainable Chemistry and Engineering, 2020, 8, 14330-14339.	3.2	5
1370	Thermal/alkaline pretreatment of waste activated sludge combined with a microbial fuel cell operated at alkaline pH for efficient energy recovery. Applied Energy, 2020, 275, 115291.	5.1	27
1371	Enhanced formation of carbonaceous and nitrogenous disinfection byproducts from biofilm extracellular polymeric substances undercatalysis of copper corrosion products. Science of the Total Environment, 2020, 723, 138160.	3.9	23
1372	Exploring flow-biofilm-sediment interactions: Assessment of current status and future challenges. Water Research, 2020, 185, 116182.	5.3	22
1373	Stringent Response Regulates Stress Resistance in Cyanobacterium Microcystis aeruginosa. Frontiers in Microbiology, 2020, 11, 511801.	1.5	9
1374	Proteomic Studies of the Biofilm Matrix including Outer Membrane Vesicles of Burkholderia multivorans C1576, a Strain of Clinical Importance for Cystic Fibrosis. Microorganisms, 2020, 8, 1826.	1.6	11
1375	Enhancing Biosludge Dewaterability with Hemoglobin from Waste Blood as a Bioflocculant. Polymers, 2020, 12, 2755.	2.0	5
1376	Extracellular polymeric substances trigger an increase in redox mediators for enhanced sludge methanogenesis. Environmental Research, 2020, 191, 110197.	3.7	14
1377	Quantitative secretome analysis of polymyxin B resistance in Escherichia coli. Biochemical and Biophysical Research Communications, 2020, 530, 307-313.	1.0	3
1378	<i>Ceobacter</i> Autogenically Secretes Fulvic Acid to Facilitate the Dissimilated Iron Reduction and Vivianite Recovery. Environmental Science & amp; Technology, 2020, 54, 10850-10858.	4.6	65
1379	Effect of temperatures and alternating anoxic/oxic sequencing batch reactor (SBR) operating modes on extracellular polymeric substances in activated sludge. Water Science and Technology, 2020, 82, 120-130.	1.2	2
1380	Tanning process promotes abiotic humification: separation and characterization of humic acid-like polymers complex. Environmental Science and Pollution Research, 2020, 27, 41437-41445.	2.7	8
1381	Mesophilic anaerobic digestion of thermally hydrolyzed sludge in anaerobic membrane bioreactor: Long-term performance, microbial community dynamics and membrane fouling mitigation. Journal of Membrane Science, 2020, 612, 118264.	4.1	42
1382	Organic compounds evolution and sludge properties variation along partial nitritation and subsequent anammox processes treating reject water. Water Research, 2020, 184, 116197.	5.3	88

# 1383	ARTICLE Successful establishment of partial denitrification by introducing hydrolytic acidification of slowly biodegradable organic matter. Bioresource Technology, 2020, 315, 123887.	IF 4.8	Citations 33
1384	A Step Forward to the Characterization of Secondary Effluents to Predict Membrane Fouling in a Subsequent Ultrafiltration. Water (Switzerland), 2020, 12, 1975.	1.2	5
1385	Sludge characteristics, system performance and microbial kinetics of ultra-short-SRT activated sludge processes. Environment International, 2020, 143, 105973.	4.8	32
1386	Interaction of nano-quantum dots (CdSe@ZnS) and extracellular proteins in activated sludge revealed by bio-nano science. Environmental Science: Nano, 2020, 7, 2795-2808.	2.2	3
1387	Sludge pre-treatments change performance and microbiome in methanogenic sludge digesters by releasing different sludge organic matter. Bioresource Technology, 2020, 316, 123909.	4.8	11
1388	Proteomic analysis reveals the temperature-dependent presence of extracytoplasmic peptidases in the biofilm exoproteome of Listeria monocytogenes EGD-e. Journal of Microbiology, 2020, 58, 761-771.	1.3	4
1389	Bioactive polysaccharides from microalgae. , 2020, , 533-571.		12
1390	Anaerobic digestion reduces extracellular antibiotic resistance genes in waste activated sludge: The effects of temperature and degradation mechanisms. Environment International, 2020, 143, 105980.	4.8	38
1391	Denitrification performance of <i>Pseudomonas fluorescens</i> Z03 immobilized by graphene oxide-modified polyvinyl-alcohol and sodium alginate gel beads at low temperature. Royal Society Open Science, 2020, 7, 191542.	1.1	14
1392	Study on synergistic mechanism of PANDAN modification, current and electroactive biofilms on Congo red decolorization in microbial fuel cells. International Journal of Hydrogen Energy, 2020, 45, 29417-29429.	3.8	12
1393	Roles of soluble microbial products and extracellular polymeric substances in membrane fouling. , 2020, , 45-79.		4
1394	Effects of Sludge Retention Time on the Performance of Anaerobic Ceramic Membrane Bioreactor Treating High-Strength Phenol Wastewater. Archaea, 2020, 2020, 1-10.	2.3	8
1395	Characterization and reutilization potential of lipids in sludges from wastewater treatment processes. Scientific Reports, 2020, 10, 12997.	1.6	6
1396	Understanding the mechanism in aggregation ability between aerobic and anammox granular sludge from the perspective of exopolysaccharides. Journal of Water Process Engineering, 2020, 38, 101629.	2.6	17
1397	Comparison of separated and combined photodegradation and biofiltration technology for the treatment of volatile organic compounds: A critical review. Critical Reviews in Environmental Science and Technology, 2022, 52, 1325-1355.	6.6	16
1398	Achieving Partial Nitrification via Intermittent Aeration in SBR and Short-Term Effects of Different C/N Ratios on Reactor Performance and Microbial Community Structure. Water (Switzerland), 2020, 12, 3485.	1.2	18
1399	Digestion Properties of Intracellular Polymers and Extracellular Polymeric Substances and Influences of Extracellular Polymeric Substances on Anaerobic Digestion of Sludge. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	6
1400	Structural extracellular polymeric substances determine the difference in digestibility between waste activated sludge and aerobic granules. Water Research, 2020, 181, 115924.	5.3	57

#	Article	IF	CITATIONS
1401	Insights into the production of extracellular polymeric substances of <i>Cupriavidus pauculus</i> 1490 under the stimulation of heavy metal ions. RSC Advances, 2020, 10, 20385-20394.	1.7	30
1402	Bacteria and photosynthetic cells in a photobioreactor treating real municipal wastewater: Analysis and quantification using flow cytometry. Algal Research, 2020, 50, 101969.	2.4	4
1403	Importance of exopolysaccharide branched chains in determining the aggregation ability of anammox sludge. Science of the Total Environment, 2020, 734, 139470.	3.9	27
1404	Biofilm and Quorum sensing mediated pathogenicity in Pseudomonas aeruginosa. Process Biochemistry, 2020, 96, 49-57.	1.8	94
1405	Evaluation of the dewaterability, heavy metal toxicity and phytotoxicity of sewage sludge in different advanced oxidation processes. Journal of Cleaner Production, 2020, 265, 121839.	4.6	36
1406	Using a strong chemical oxidant, potassium ferrate (K2FeO4), in waste activated sludge treatment: A review. Environmental Research, 2020, 188, 109764.	3.7	71
1407	Metabolomic modulations in a freshwater microbial community exposed to the fungicide azoxystrobin. Journal of Environmental Sciences, 2020, 97, 102-109.	3.2	9
1408	Powdered activated carbon facilitates methane productivity of anaerobic co-digestion via acidification alleviating: Microbial and metabolic insights. Bioresource Technology, 2020, 313, 123706.	4.8	71
1409	Changes in syntrophic microbial communities, EPS matrix, and gene-expression patterns in biofilm anode in response to silver nanoparticles exposure. Science of the Total Environment, 2020, 734, 139395.	3.9	45
1410	Influence of chlortetracycline as an antibiotic residue on nitrous oxide emissions from wastewater treatment. Bioresource Technology, 2020, 313, 123696.	4.8	12
1411	Techno-economic feasibility of energy-saving self-aerated sponge tower combined with up-flow anaerobic sludge blanket reactor for treatment of hazardous landfill leachate. Journal of Water Process Engineering, 2020, 37, 101415.	2.6	22
1412	Sludge predation by aquatic worms: Physicochemical characteristics of sewage sludge and implications for dewaterability. Journal of Cleaner Production, 2020, 258, 120612.	4.6	10
1413	Effects of Four Kinds of Oxide Nanoparticles on Proteins in Extracellular Polymeric Substances of Sludge. BioMed Research International, 2020, 2020, 1-13.	0.9	1
1414	Physicochemical mechanisms underlying soil and organic amendment effects on runoff P losses. Land Degradation and Development, 2020, 31, 2395-2404.	1.8	2
1415	Removal of pharmaceutical compounds commonly-found in wastewater through a hybrid biological and adsorption process. Journal of Environmental Management, 2020, 263, 110368.	3.8	28
1416	Microbiological evaluation of nano-Fe3O4/GO enhanced the micro-aerobic activate sludge system for the treatment of mid-stage pulping effluent. Applied Nanoscience (Switzerland), 2020, 10, 1969-1980.	1.6	9
1417	Removal of organics from shale gas fracturing flowback fluid using expanded granular sludge bed and moving bed biofilm reactor. Environmental Technology (United Kingdom), 2021, 42, 3736-3746.	1.2	6
1418	Effect of DEHP on SCFA Production by Anaerobic Fermentation of Waste Activated Sludge. Advances in Polymer Technology, 2020, 2020, 1-12.	0.8	5

#	Article	IF	CITATIONS
1419	Membrane bioreactors sludge: From production to disposal. , 2020, , 323-351.		3
1420	Influence of bio(de)flocculation on activated sludge processes in membrane bioreactors. , 2020, , 375-396.		1
1421	Combined Effect of Colloids and SMP on Membrane Fouling in MBRs. Membranes, 2020, 10, 118.	1.4	19
1422	Aerobically digested sludge conditioning by Fe2+/citrate chelated-Fe2+ activated peroxymonosulfate oxidation. Chemical Engineering Journal, 2020, 400, 125954.	6.6	17
1423	Bacterial assembly during the initial adhesion phase in wastewater treatment biofilms. Water Research, 2020, 184, 116147.	5.3	28
1424	Influence diversity of extracellular DNA on bioleaching chalcopyrite and pyrite by Sulfobacillus thermosulfidooxidans ST. Journal of Central South University, 2020, 27, 1466-1476.	1.2	8
1425	Microalgal and cyanobacterial biofilms. , 2020, , 127-156.		2
1426	Synergistic effect of biofilm growth and cadmium adsorption via compositional changes of extracellular matrix in montmorillonite system. Bioresource Technology, 2020, 315, 123742.	4.8	19
1427	Acceleration of biofilm formation in start-up of sequencing batch biofilm reactor using carriers immobilized with Pseudomonas stutzeri strain XL-2. Bioresource Technology, 2020, 314, 123736.	4.8	16
1428	Mechanism of phosphate adsorption on superparamagnetic microparticles modified with transitional elements: Experimental observation and computational modelling. Chemosphere, 2020, 258, 127327.	4.2	11
1429	Microbial extracellular polysaccharide production and aggregate stability controlled by switchgrass (Panicum virgatum) root biomass and soil water potential. Soil Biology and Biochemistry, 2020, 143, 107742.	4.2	69
1430	Performance of an up-flow anaerobic bio-electrochemical system (UBES) for treating sulfamethoxazole (SMX) antibiotic wastewater. Bioresource Technology, 2020, 305, 123070.	4.8	27
1431	The wet oxidation of aqueous humic acids. Journal of Hazardous Materials, 2020, 396, 122402.	6.5	34
1432	Bioeffect of static magnetic field on photosynthetic bacteria: Evaluation of bioresources production and wastewater treatment efficiency. Water Environment Research, 2020, 92, 1131-1141.	1.3	8
1433	Using proteomics for an insight into the performance of activated sludge in a lab-scale WWTP. International Biodeterioration and Biodegradation, 2020, 149, 104934.	1.9	10
1434	Resource recovery from an aerobic granular sludge process treating domestic wastewater. Journal of Water Process Engineering, 2020, 34, 101148.	2.6	38
1435	Does the combined free nitrous acid and electrochemical pretreatment increase methane productivity by provoking sludge solubilization and hydrolysis?. Bioresource Technology, 2020, 304, 123006.	4.8	16
1436	Expression, purification, and characterization of human mannose-6-phosphate receptor – Extra cellular domain from a stable cell line utilizing a small molecule biomimetic of the mannose-6-phosphate moiety. Protein Expression and Purification, 2020, 170, 105589.	0.6	5

	CITATION REF	PORT	
Article		IF	CITATIONS
Soil organic carbon, extracellular polymeric substances (EPS), and soil structural stabili affected by previous and current land-use. Geoderma, 2020, 363, 114143.	ty as	2.3	56
Micron-sized silica particles in wastewater influenced the distribution of organic matter and their anaerobic degradation. Journal of Hazardous Materials, 2020, 393, 122340.	rs in sludge	6.5	8
Enhancement of sludge electro-dewaterability during biological conditioning. RSC Adva 3153-3165.	ances, 2020, 10,	1.7	7
Shifts in reclamation management strategies shape the role of exopolysaccharide and lipopolysaccharideâ€producing bacteria during soil formation. Microbial Biotechnology 584-598.	, 2020, 13,	2.0	31
High-level waste activated sludge dewaterability using Fenton-like process based on pr valent scrap iron as an in-situ cycle iron donator. Journal of Hazardous Materials, 2020,		6.5	27
Anaerobic bioconversion of petrochemical wastewater to biomethane in a semi-continu bioreactor: Biodegradability, mineralization behaviors and methane productivity. Biores Technology, 2020, 304, 123005.		4.8	14
Microbial community composition in different carbon source types of biofilm A/O-MBR complete sludge retention. Environmental Technology (United Kingdom), 2021, 42, 29		1.2	6
Cation exchange resin-induced hydrolysis for improving biodegradability of waste activ Characterization of dissolved organic matters and microbial community. Bioresource To 2020, 302, 122870.	ated sludge: echnology,	4.8	60
Enhancing methanogenesis from anaerobic digestion of propionate with addition of Fe supported on conductive carbon cloth. Bioresource Technology, 2020, 302, 122796.	oxides	4.8	48
Unignorable toxicity of formaldehyde on electroactive bacteria in bioelectrochemical sy Environmental Research, 2020, 183, 109143.	vstems.	3.7	23
New insight into enhanced production of short-chain fatty acids from waste activated scation exchange resin-induced hydrolysis. Chemical Engineering Journal, 2020, 388, 12	sludge by 4235.	6.6	92
Motility changes rather than EPS production shape aggregation of Chlamydomonas mi aquatic environment. Environmental Technology (United Kingdom), 2020, 42, 1-9.	crosphaera in	1.2	1
Influence of surface copper content on <i>Stenotrophomonas maltophilia</i> biofilm co chlorine and mechanical stress. Biofouling, 2020, 36, 1-13.	ontrol using	0.8	20
Bacterial foraging facilitates aggregation of Chlamydomonas microsphaera in an organ source-limited aquatic environment. Environmental Pollution, 2020, 259, 113924.	ic carbon	3.7	13

1451	The effect of supporting matrix on sludge granulation under low hydraulic shear force: Performance, microbial community dynamics and microorganisms migration. Science of the Total Environment, 2020, 712, 136562.	3.9	21
1452	How to Cope With Heavy Metal Ions: Cellular and Proteome-Level Stress Response to Divalent Copper and Nickel in Halobacterium salinarum R1 Planktonic and Biofilm Cells. Frontiers in Microbiology, 2020, 10, 3056.	1.5	15
1453	Enhanced reduction of sulfate and chromium under sulfate-reducing condition by synergism between extracellular polymeric substances and graphene oxide. Environmental Research, 2020, 183, 109157.	3.7	30
1454	Bulking and floatation of the anammox-HAP granule caused by low phosphate concentration in the anammox reactor of expanded granular sludge bed (EGSB). Bioresource Technology, 2020, 310, 123421.	4.8	42

#

1437

1438

1439

1441

1442

1443

1444

1445

1446

1447

1448

1449

#	Article	IF	CITATIONS
1455	Effect of Light Intensity and Light Quality on Diatom Behavioral and Physiological Photoprotection. Frontiers in Marine Science, 2020, 7, .	1.2	25
1456	Development of thermal treatment for the extraction of extracellular polymeric substances from Microcystis: Evaluating extraction efficiency and cell integrity. Algal Research, 2020, 48, 101879.	2.4	16
1457	Comprehensive investigation of the relationship between organic content and waste activated sludge dewaterability. Journal of Hazardous Materials, 2020, 394, 122547.	6.5	24
1458	Ultrasound enhanced zero-valent iron-activated peroxymonosulfate oxidation for improving dewaterability of aerobically digested sludge. Chemical Engineering Journal, 2020, 392, 124850.	6.6	50
1459	Exopolysaccharides from marine bacteria: production, recovery and applications. Environmental Sustainability, 2020, 3, 139-154.	1.4	16
1460	The impact of biodegradable carbon sources on nutrients removal in post-denitrification biofilm reactors. Science of the Total Environment, 2020, 720, 137377.	3.9	31
1461	Acetate limitation selects Geobacter from mixed inoculum and reduces polysaccharide in electroactive biofilm. Water Research, 2020, 177, 115776.	5.3	70
1462	The branched chains and branching degree of exopolysaccharides affecting the stability of anammox granular sludge. Water Research, 2020, 178, 115818.	5.3	43
1463	Insight into ferrihydrite effects on methanogenesis in UASB reactors treating high sulfate wastewater: reactor performance and microbial community. Environmental Science: Water Research and Technology, 2020, 6, 1794-1803.	1.2	13
1464	Bacteria from the Genus <i>Arcobacter</i> Are Abundant in Effluent from Wastewater Treatment Plants. Applied and Environmental Microbiology, 2020, 86, .	1.4	65
1465	Determination of Saccharides in Environments Using a Sulfuric Acid-Fluorescence Approach. Environmental Science & Technology, 2020, 54, 6632-6638.	4.6	4
1466	Dewaterability of sewage sludge conditioned with a graft cationic starch-based flocculant: Role of structural characteristics of flocculant. Water Research, 2021, 189, 116578.	5.3	49
1467	Interactions between alkali-activated ground granulated blastfurnace slag and organic matter in soil stabilization/solidification. Transportation Geotechnics, 2021, 26, 100412.	2.0	24
1468	Integration of electrochemical and calcium hypochlorite oxidation for simultaneous sludge deep dewatering, stabilization and phosphorus fixation. Science of the Total Environment, 2021, 750, 141408.	3.9	28
1469	Fouling of membranes in membrane bioreactors for wastewater treatment: Planktonic bacteria can have a significant contribution. Water Environment Research, 2021, 93, 207-216.	1.3	10
1470	Extracellular biopolymers recovered as raw biomaterials from waste granular sludge and potential applications: A critical review. Science of the Total Environment, 2021, 753, 142051.	3.9	62
1471	Effect of polyethylene microplastics on activated sludge process - Accumulation in the sludge and influence on the process and on biomass characteristics. Chemical Engineering Research and Design, 2021, 148, 536-547.	2.7	34
1472	Light exposure interferes with electroactive biofilm enrichment and reduces extracellular electron transfer efficiency. Water Research, 2021, 188, 116512.	5.3	25

#	Article	IF	CITATIONS
1473	Enhanced technology based for sewage sludge deep dewatering: A critical review. Water Research, 2021, 189, 116650.	5.3	217
1474	Adsorbable organic halogens in contaminated water environment: A review of sources and removal technologies. Journal of Cleaner Production, 2021, 283, 124645.	4.6	29
1475	Enhanced sludge stabilization coupled with microbial fuel cells (MFCs). International Journal of Hydrogen Energy, 2021, 46, 29529-29540.	3.8	12
1476	Understanding of the mechanism of extracellular polymeric substances of aerobic granular sludge against tetracycline from the perspective of fluorescence properties. Science of the Total Environment, 2021, 756, 144054.	3.9	29
1477	Understanding synergistic mechanisms of ferrous iron activated sulfite oxidation and organic polymer flocculation for enhancing wastewater sludge dewaterability. Water Research, 2021, 189, 116652.	5.3	52
1478	Application of zero-valent iron/sulfite system for aerobically digested sludge conditioning. Chemical Engineering Journal, 2021, 420, 127650.	6.6	4
1479	Flocculation performance and mechanism of fungal pellets on harvesting of microalgal biomass. Bioresource Technology, 2021, 321, 124463.	4.8	51
1480	Enhanced anaerobic co-metabolism of coal gasification wastewater via the assistance of zero-valent iron. Journal of Water Process Engineering, 2021, 40, 101817.	2.6	13
1481	Enhanced phenols removal and methane production with the assistance of graphene under anaerobic co-digestion conditions. Science of the Total Environment, 2021, 759, 143523.	3.9	22
1482	Anaerobic digestion of sewage sludge pretreated by high pressure homogenization using expanded granular sludge blanket reactor: Feasibility, operation optimization and microbial community. Journal of Environmental Chemical Engineering, 2021, 9, 104720.	3.3	14
1483	Effects of alkalinity on interaction between EPS and hydroxy-aluminum with different speciation in wastewater sludge conditioning with aluminum based inorganic polymer flocculant. Journal of Environmental Sciences, 2021, 100, 257-268.	3.2	25
1484	Co-culture of Chlorella and Scenedesmus could enhance total lipid production under bacteria quorum sensing molecule stress. Journal of Water Process Engineering, 2021, 39, 101739.	2.6	29
1485	Effect of current density on the efficiency of a membrane electro-bioreactor for removal of micropollutants and phosphorus, and reduction of fouling: A pilot plant case study. Journal of Environmental Chemical Engineering, 2021, 9, 104874.	3.3	19
1486	Effect of tannic acid on the dewaterability of dredged sediment and the conditioning mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 104899.	3.3	8
1487	Quantitative analysis of the surficial and adhesion properties of the Gram-negative bacterial species Comamonas testosteroni modulated by c-di-GMP. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111497.	2.5	9
1488	Influence of NaCl salinity on the aggregation performance of anammox granules. Journal of Water Process Engineering, 2021, 39, 101687.	2.6	19
1489	Impact of Extracellular Polymeric Substance in the Inactivation of Harmful Algae by Ag ₂ O/g ₃ N ₄ under Visible Light. Particle and Particle Systems Characterization, 2021, 38, 2000272.	1.2	7
1490	Formation of carbonaceous and nitrogenous iodinated disinfection byproducts from biofilm extracellular polymeric substances by the oxidation of iodide-containing waters with lead dioxide. Water Research, 2021, 188, 116551.	5.3	14

#	Article	IF	CITATIONS
1491	Purple phototrophic bacteria granules under high and low upflow velocities. Water Research, 2021, 190, 116760.	5.3	16
1492	Enhancing waste activated sludge dewaterability by reducing interaction energy of sludge flocs. Environmental Research, 2021, 196, 110328.	3.7	29
1493	Regulation of c-di-GMP in Biofilm Formation of Klebsiella pneumoniae in Response to Antibiotics and Probiotic Supernatant in a Chemostat System. Current Microbiology, 2021, 78, 133-143.	1.0	8
1494	Evaluation of the combined effect of sodium persulfate and thermal hydrolysis on sludge dewatering performance. Environmental Science and Pollution Research, 2021, 28, 7586-7597.	2.7	10
1495	Impact of the nature of organic matter and/or its organo-mineral interaction on microbial activity in dam sediment. Journal of Soils and Sediments, 2021, 21, 561-574.	1.5	1
1496	Explore the effect of Fe ₃ O ₄ nanoparticles (NPs) on anaerobic digestion of sludge. Environmental Technology (United Kingdom), 2021, 42, 1542-1551.	1.2	17
1498	In Vitro Metabolite Profiling of Microbial Biofilm: Role of Gas Chromatography and High-Performance Liquid Chromatography. Springer Protocols, 2021, , 95-113.	0.1	2
1499	The effects of temperature shock on the treatment of high-concentration organic wastewater by an Fe0/GO-anaerobic system. RSC Advances, 2021, 11, 24086-24094.	1.7	0
1500	Role of c-di-GMP in improving stress resistance of alginate-chitosan microencapsulated Bacillus subtilis cells in simulated digestive fluids. Biotechnology Letters, 2021, 43, 677-690.	1.1	3
1501	Methods of Sample Preparation and Assay of Bacterial Biofilms with Special Reference to Their Significance in Agriculture and Extreme Environments. Springer Protocols, 2021, , 39-65.	0.1	2
1502	The connection between aeration regimes and EPS composition in nitritation biofilm. Chemosphere, 2021, 265, 129141.	4.2	9
1503	Improving Medium-Chain Fatty Acid Production from Anaerobic Fermentation of Waste Activated Sludge Using Free Ammonia. ACS ES&T Engineering, 2021, 1, 478-489.	3.7	33
1504	Achieving rapid thiosulfate-driven denitrification (TDD) in a granular sludge system. Water Research, 2021, 190, 116716.	5.3	42
1505	Novel CaO2 beads used in the anaerobic fermentation of iron-rich sludge for simultaneous short-chain fatty acids and phosphorus recovery under ambient conditions. Bioresource Technology, 2021, 322, 124553.	4.8	27
1506	Nature and accessibility of organic matter in lacustrine sediment. Journal of Soils and Sediments, 2021, 21, 1504-1522.	1.5	2
1507	Predictive performance of auto-aerated immobilized biomass reactor treating anaerobic effluent of cardboard wastewater enriched with bronopol (2-bromo-2-nitropropan-1,3-diol) via artificial neural network. Environmental Technology and Innovation, 2021, 21, 101327.	3.0	11
1508	Sludge digestibility and functionally active microorganisms in methanogenic sludge digesters revealed by E. coli-fed digestion and microbial source tracking. Environmental Research, 2021, 193, 110539.	3.7	16
1509	Coupling granular activated carbon and exogenous hydrogen to enhance anaerobic digestion of phenol via predominant syntrophic acetate oxidation and hydrogenotrophic methanogenesis pathway. Bioresource Technology, 2021, 323, 124576.	4.8	23

			2
#	ARTICLE	IF	CITATIONS
1510	Improving waste activated sludge dewaterability with sodium periodate preâ€oxidation on extracellular polymeric substances. Water Environment Research, 2021, 93, 1680-1689.	1.3	7
1511	The differences in characteristics of extracellular polymeric substances of flocs and anammox granules impacted aggregation. Bioprocess and Biosystems Engineering, 2021, 44, 1711-1720.	1.7	22
1512	Effect of operating temperature on the efficiency of ultra-short-sludge retention time activated sludge systems. Environmental Science and Pollution Research, 2021, 28, 39257-39267.	2.7	3
1513	Effect of immobilized anthraquinone-2-sulfonate on antibiotic resistance genes and microbial community in biofilms of anaerobic reactors. Journal of Environmental Management, 2021, 282, 111967.	3.8	3
1514	Surfactant-assisted thermal hydrolysis off waste activated sludge for improved dewaterability, organic release, and volatile fatty acid production. Waste Management, 2021, 124, 339-347.	3.7	22
1515	Entrapment of clay particles enhances durability of bacterial biofilm-associated bioclogging in sand. Acta Geotechnica, 2022, 17, 119-129.	2.9	4
1516	Key role of soluble microbial products in waste activated sludge reduction by synergetic combination of cocoamidopropyl betaine and alkalinity in the short-time aerobic digestion system. Journal of Hazardous Materials, 2021, 408, 124930.	6.5	4
1517	The synergistic strategy and microbial ecology of the anaerobic co-digestion of food waste under the regulation of domestic garbage classification in China. Science of the Total Environment, 2021, 765, 144632.	3.9	25
1518	Performance and bacterial community dynamics of aerobic granular sludge working at low temperature enhanced by melamine framework embedding. Journal of Environmental Chemical Engineering, 2021, 9, 105156.	3.3	13
1519	Effects of pH on extracellular polymeric substances compositions of biofilm in Integrated Fixed Film Activated Sludge process. International Journal of Environmental Science and Technology, 2022, 19, 73-84.	1.8	0
1520	Inhibitory Effect of Salinity and Humic Acid on the Performance of Anaerobic Ammonium Oxidation Process and Recovery of Anammox Activity. Environmental Engineering Science, 2021, 38, 1078-1086.	0.8	2
1521	Application of a novel process using biosurfactant rhamnolipid to reduce bioclogging in quartz sand during artificial recharge. Journal of Hydrology, 2021, 595, 126033.	2.3	4
1522	Production of bioelectricity may play an important role for the survival of Xanthomonas campestris pv. campestris (Xcc) under anaerobic conditions. Science of the Total Environment, 2021, 768, 144335.	3.9	6
1523	Mechanism of cell proliferation during starvation in a continuous stirred tank anaerobic reactor treating food waste. Bioprocess and Biosystems Engineering, 2021, 44, 1659-1669.	1.7	1
1524	Mimicking biofilm formation and development: Recent progress in inÂvitro and inÂvivo biofilm models. IScience, 2021, 24, 102443.	1.9	114
1525	The Effects of Chemical and Mechanical Stresses on Bacillus cereus and Pseudomonas fluorescens Single- and Dual-Species Biofilm Removal. Microorganisms, 2021, 9, 1174.	1.6	10
1526	Organics removal from shale gas wastewater by pre-oxidation combined with biologically active filtration. Water Research, 2021, 196, 117041.	5.3	51
1527	Comparison of different ultrafiltration membranes as first step for the recovery of phenolic compounds from olive-oil washing wastewater. Chemical Engineering Research and Design, 2021, 149, 724-734.	2.7	36

#	Article	IF	Citations
1528	Using Aspergillus niger whole-cell biocatalyst mycelial aerobic granular sludge to treat pharmaceutical wastewater containing Î ² -lactam antibiotics. Chemical Engineering Journal, 2021, 412, 128665.	6.6	30
1529	Treatment of highâ€strength synthetic textile wastewater through anaerobic osmotic membrane bioreactor and effect of sludge characteristics on flux. Environmental Quality Management, 2021, 31, 85-98.	1.0	4
1530	Exposure to 1-Butanol Exemplifies the Response of the Thermoacidophilic Archaeon Sulfolobus acidocaldarius to Solvent Stress. Applied and Environmental Microbiology, 2021, 87, .	1.4	8
1531	Effect of calcification on anaerobic granular sludge: Micro-morphological structure and microbial community. Journal of Water Process Engineering, 2021, 41, 102046.	2.6	9
1532	Enhancement of sewage sludge dewaterability by fungal conditioning with Penicillium simplicissimum NJ12: from bench- to pilot-scale consecutive multi-batch investigations. Environmental Science and Pollution Research, 2021, 28, 62255-62265.	2.7	2
1533	Interactions of microalgae-bacteria consortia for nutrient removal from wastewater: A review. Chemosphere, 2021, 272, 129878.	4.2	171
1534	Effects of microplastic accumulation on floc characteristics and fouling behavior in a membrane bioreactor. Journal of Hazardous Materials, 2021, 411, 124991.	6.5	52
1535	Performance of dynamic anaerobic membrane bioreactor (DAnMBR) with phase separation in treating high strength food processing wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 105245.	3.3	11
1536	Impacts of influent COD/N ratio on floc physicochemical characteristics and microbial community of nitrifying sludge under high-strength ammonia conditions. Journal of Water Process Engineering, 2021, 41, 102002.	2.6	9
1537	High value-added biomaterials recovery from granular sludge based wastewater treatment process. Resources, Conservation and Recycling, 2021, 169, 105481.	5.3	20
1538	Revealing the stability of aerobic granular sludge in a membrane bioreactor under different DO values by proteomics analysis. Bioresource Technology Reports, 2021, 14, 100673.	1.5	4
1539	Use of near-infrared spectroscopy on predicting wastewater constituents to facilitate the operation of a membrane bioreactor. Chemosphere, 2021, 272, 129899.	4.2	2
1540	Environmental applications of microbial extracellular polymeric substance (EPS): A review. Journal of Environmental Management, 2021, 287, 112307.	3.8	120
1541	Evaluation of hydrophobically associating cationic starch-based flocculants in sludge dewatering. Scientific Reports, 2021, 11, 11819.	1.6	12
1542	An innovative approach to the application of ultrasounds to remove polyethylene microspheres from activated sludge. Separation and Purification Technology, 2021, 264, 118429.	3.9	7
1543	Extraction of extracellular polymeric substances from dam lake fresh sediments derived from crystalline bedrock. Chemosphere, 2021, 275, 130103.	4.2	3
1544	Understanding the dependence of start-up and stability of aerobic granule on pH from the perspective of adhesion behavior and properties of extracellular polymeric substances. Environmental Research, 2021, 198, 111311.	3.7	8
1545	The inhibitory effect of in situ extracellular polymeric substances on trimethoprim adsorption by activated sludge. Chemosphere, 2021, 274, 129798.	4.2	10

щ.		15	CITATIONS
#	ARTICLE Effects of cations on biofilm formation and characteristics in integrated fixed film activated sludge	IF	CITATIONS
1546	process at different carbon and nitrogen loadings. Chemosphere, 2021, 275, 130002.	4.2	8
1547	Holistic insights into extracellular polymeric substance (EPS) in anammosx bacterial matrix and the potential sustainable biopolymer recovery: A review. Chemosphere, 2021, 274, 129703.	4.2	50
1548	Bacterial Extracellular Polymers: A Review. Journal of Pure and Applied Microbiology, 2021, 15, 1072-1082.	0.3	1
1549	Contrasting detoxification mechanisms of Chlamydomonas reinhardtii under Cd and Pb stress. Chemosphere, 2021, 274, 129771.	4.2	49
1550	Influence of bisphenol A occurrence in wastewaters on biomass characteristics and activated sludge process performance. Science of the Total Environment, 2021, 778, 146355.	3.9	17
1551	Microorganisms and their metabolic activities affect seepage through porous media in groundwater artificial recharge systems: A review. Journal of Hydrology, 2021, 598, 126256.	2.3	8
1552	Effects of large salinity fluctuations on an anaerobic membrane bioreactor treating phenolic wastewater. Chemical Engineering Journal, 2021, 417, 129263.	6.6	8
1553	Nano zero-valent iron regulates the enrichment of organics-degrading and hydrogenotrophic microbes to stimulate methane bioconversion of waste activated sludge. Chemical Engineering Journal, 2021, 418, 129511.	6.6	24
1554	Compared effects of "solid-based―hydrogen peroxide pretreatment on disintegration and properties of waste activated sludge. Chinese Chemical Letters, 2022, 33, 1293-1297.	4.8	16
1555	Understanding the abiotic interaction between phosphate and macromolecular organic compounds in waste activated sludge during anaerobic treatment. Science of the Total Environment, 2021, 782, 146864.	3.9	3
1556	Stabilization of heavy metals loaded sewage sludge: Reviewing conventional to state-of-the-art thermal treatments in achieving energy sustainability. Chemosphere, 2021, 277, 130310.	4.2	49
1557	Effects of inorganic particles and their interactions with biofilms on dynamic membrane structure and long-term filtration performance. Science of the Total Environment, 2021, 780, 146639.	3.9	9
1558	Changes in molecular structure of extracellular polymeric substances (EPS) with temperature in relation to sludge macro-physical properties. Water Research, 2021, 201, 117316.	5.3	62
1559	Research on Dewatering Ability of Municipal Sludge under the Treatment of Coupled Acid and Microwave. Geofluids, 2021, 2021, 1-11.	0.3	2
1560	Construction of fungi-microalgae symbiotic system and adsorption study of heavy metal ions. Separation and Purification Technology, 2021, 268, 118689.	3.9	56
1561	Model based analysis of carbon fluxes within microalgae-bacteria flocs using respirometric-titrimetric data. Science of the Total Environment, 2021, 784, 147048.	3.9	6
1562	Triclosan weakens the nitrification process of activated sludge and increases the risk of the spread of antibiotic resistance genes. Journal of Hazardous Materials, 2021, 416, 126085.	6.5	32
1563	Application of hydrophilic modified nylon fabric membrane in an anammox-membrane bioreactor: performance and fouling characteristics. Environmental Science and Pollution Research, 2022, 29, 5330-5344.	2.7	2

#	ARTICLE Denitrification performance, biofilm formation and microbial diversity during startup of slow sand	IF	CITATIONS
1564	filter using powdery polycaprolactone as solid carbon source. Journal of Environmental Chemical Engineering, 2021, 9, 105561.	3.3	11
1565	Dynamic anaerobic membrane bioreactor (DAnMBR) with phase separation for food processing wastewater treatment at mesophilic temperature: Characterization of cake layer. Journal of Environmental Chemical Engineering, 2021, 9, 105718.	3.3	6
1566	Perfluorooctane sulfonate decreases the performance of a sequencing batch reactor system and changes the sludge microbial community. Chemosphere, 2021, 279, 130596.	4.2	21
1567	Effect of salinity and temperature on the extraction of extracellular polymeric substances from an anaerobic sludge and fouling in submerged hollow fibre membranes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126910.	2.3	2
1568	Synergetic Effect of Combined CaO2 and Microwave Treatment on Waste Active Sludge Dewaterability and Organic Contaminants' Removal. Frontiers in Environmental Science, 2021, 9, .	1.5	1
1569	Use of combined UASB + eMBR treatment for removal of emerging micropollutants and reduction of fouling. Journal of Water Supply: Research and Technology - AQUA, 2021, 70, 984-1001.	0.6	3
1570	<i>Candidatus</i> Kaistella beijingensis sp. nov., Isolated from a Municipal Wastewater Treatment Plant, Is Involved in Sludge Foaming. Applied and Environmental Microbiology, 2021, 87, e0153421.	1.4	3
1571	Organic matter parameters in WWTP – a critical review and recommendations for application in activated sludge modelling. Water Science and Technology, 2021, 84, 2093-2112.	1.2	12
1572	Effect of ibuprofen on extracellular polymeric substances (EPS) production and composition, and assessment of microbial structure by quantitative image analysis. Journal of Environmental Management, 2021, 293, 112852.	3.8	15
1573	Influential mechanism of water occurrence states of waste-activated sludge: specifically focusing on the roles of EPS micro-spatial distribution and cation-dominated interfacial properties. Water Research, 2021, 202, 117461.	5.3	29
1574	Supplementation of Schwertmannite improves methane production and heavy metal stabilization during anaerobic swine manure treatment. Fuel, 2021, 299, 120883.	3.4	15
1575	Response of anaerobic granular sludge to long-term loading of roxarsone: From macro- to micro-scale perspective. Water Research, 2021, 204, 117599.	5.3	13
1576	Efficacy of auto-aggregating aerobic denitrifiers with coaggregation traits for bioaugmentation performance in biofilm-formation and nitrogen-removal. Bioresource Technology, 2021, 337, 125391.	4.8	9
1577	Dewaterability improvement and environmental risk mitigation of waste activated sludge using peroxymonosulfate activated by zero-valent metals: Fe0 vs. AlO. Chemosphere, 2021, 280, 130686.	4.2	15
1578	Effects of dissolved oxygen on the sludge dewaterability and extracellular polymeric substances distribution by bioleaching. Chemosphere, 2021, 281, 130906.	4.2	13
1579	The influence of hydrophobicity on sludge dewatering associated with cationic starch-based flocculants. Journal of Environmental Management, 2021, 296, 113218.	3.8	18
1580	Recovery of polymeric substances from excess sludge: Surfactant-enhanced ultrasonic extraction and properties analysis. Chemosphere, 2021, 283, 131181.	4.2	9
1581	Membrane fouling in a microalgal-bacterial membrane photobioreactor: Effects of P-availability controlled by N:P ratio. Chemosphere, 2021, 282, 131015.	4.2	15

#	Article	IF	CITATIONS
1582	Understanding the impacts of operation mode sequences on the biological aniline degradation system: Startup phase, pollutants removal rules and microbial response. Bioresource Technology, 2021, 340, 125758.	4.8	20
1583	Disordered mesoporous carbon activated peroxydisulfate pretreatment facilitates disintegration of extracellular polymeric substances and anaerobic bioconversion of waste activated sludge. Bioresource Technology, 2021, 339, 125547.	4.8	15
1584	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe2+-activated persulfate oxidation. Journal of Environmental Management, 2021, 298, 113429.	3.8	8
1585	Enhanced sludge dewaterability via ozonation catalyzed by sludge derived biochar loaded with MnFe2O4: Performance and mechanism investigation. Journal of Cleaner Production, 2021, 323, 129182.	4.6	28
1586	Understanding the role of cations and hydrogen bonds on the stability of aerobic granules from the perspective of the aggregation and adhesion behavior of extracellular polymeric substances. Science of the Total Environment, 2021, 795, 148659.	3.9	23
1587	Insight into the role of exopolysaccharide in determining the structural stability of aerobic granular sludge. Journal of Environmental Management, 2021, 298, 113521.	3.8	34
1588	Modeling molecular structure and behavior of microbial extracellular polymeric substances through interacting-particle reaction dynamics. Chemical Engineering Journal Advances, 2021, 8, 100154.	2.4	6
1589	Responses of electroactive biofilms to chronic chlorine exposure: Insights from the composition and spatial structure of extracellular polymeric substances. Bioelectrochemistry, 2021, 142, 107894.	2.4	5
1590	Kitchen waste hydrolysate enhances sewage treatment efficiency with different biological process compared with glucose. Bioresource Technology, 2021, 341, 125904.	4.8	11
1591	Sewage denitrification performance and sludge properties variation with the addition of liquid from perishable organic anaerobic fermentation. Bioresource Technology, 2021, 341, 125821.	4.8	8
1592	Optimization of nutrient rich solution for direct fertigation using novel side stream anaerobic forward osmosis process to treat textile wastewater. Journal of Environmental Management, 2021, 300, 113691.	3.8	11
1593	Improved dewaterability of drilling waste sludge by ultrasonic and potassium permanganate co-treatment. Journal of Environmental Chemical Engineering, 2021, 9, 106356.	3.3	9
1594	Granular activated carbon promoting re-granulation of anammox-hydroxyapatite granules for stable nitrogen removal at low phosphate concentration. Science of the Total Environment, 2022, 805, 150359.	3.9	21
1595	Novel micro-granular sludge process for highly efficient treatment of low-strength and low C/N ratio municipal wastewater. Chemosphere, 2022, 287, 132322.	4.2	11
1596	Insights into removal of sulfonamides in anaerobic activated sludge system: Mechanisms, degradation pathways and stress responses. Journal of Hazardous Materials, 2022, 423, 127248.	6.5	30
1597	Effect of surfactants on phosphorus release and acidogenic fermentation of waste activated sludge containing different aluminium phosphate forms. Chemosphere, 2022, 287, 132213.	4.2	8
1598	The influent COD/N ratio controlled the linear alkylbenzene sulfonate biodegradation and extracellular polymeric substances accumulation in an oxygen-based membrane biofilm reactor. Journal of Hazardous Materials, 2022, 422, 126862.	6.5	18
1599	Constructed microalgal-bacterial symbiotic (MBS) system: Classification, performance, partnerships and perspectives. Science of the Total Environment, 2022, 803, 150082.	3.9	22

#	Article	IF	CITATIONS
1601	The role of lime in dredged mud dewatered by a plate and frame filter press and potential substitutes. Environmental Science and Pollution Research, 2021, 28, 17331-17342.	2.7	17
1602	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. Green Chemistry, 2021, 23, 1013-1025.	4.6	18
1603	Anaerobic Co-Digestion of Sugarcane Leaves, Cow Dung, and Food Waste: Focus on Methane Yield and Synergistic Effects. SSRN Electronic Journal, 0, , .	0.4	0
1606	Hydrogen/deuterium exchange in mass spectrometry. Mass Spectrometry Reviews, 2018, 37, 811-853.	2.8	80
1607	The Application of Molecular Techniques to the Study of Wastewater Treatment Systems. Methods in Molecular Biology, 2010, 599, 157-183.	0.4	11
1609	Pathogenesis of Biomaterial-Associated Infection. , 2020, , 109-169.		3
1610	Microalgal Biomass of Industrial Interest: Methods of Characterization. , 2020, , 537-639.		4
1611	Cr(VI) removal performance and the characteristics of microbial communities influenced by the core-shell maifanite/ZnAl-layered double hydroxides (LDHs) substrates for chromium-containing surface water. Biochemical Engineering Journal, 2020, 160, 107625.	1.8	14
1612	Recent progress in integrated fixed-film activated sludge process for wastewater treatment: A review. Journal of Environmental Management, 2020, 268, 110718.	3.8	107
1613	Hydrolase activity and microbial community dynamic shift related to the lack in multivalent cations during cation exchange resin-enhanced anaerobic fermentation of waste activated sludge. Journal of Hazardous Materials, 2020, 398, 122930.	6.5	35
1614	Extraction of consortium of hydrolytic enzymes from waste activated sludge using ultrasonication and stirring with surfactants. Ultrasonics Sonochemistry, 2018, 40, 874-880.	3.8	23
1615	Dewatering efficiency of sewage sludge during Fe2+-activated persulfate oxidation: Effect of hydrophobic/hydrophilic properties of sludge EPS. Water Research, 2020, 181, 115903.	5.3	76
1616	Occurrence State and Molecular Structure Analysis of Extracellular Proteins with Implications on the Dewaterability of Waste-Activated Sludge. Environmental Science & Technology, 2017, 51, 9235-9243.	4.6	174
1619	Protein-Mediated Adhesion of the Dissimilatory Fe(III)-Reducing Bacterium <i>Shewanella alga</i> BrY to Hydrous Ferric Oxide. Applied and Environmental Microbiology, 1999, 65, 5017-5022.	1.4	42
1621	Roles of extracellular polymeric substances in uranium immobilization by anaerobic sludge. AMB Express, 2019, 9, 199.	1.4	6
1622	Methods For Analyzing Floc Properties. , 2004, , 1-22.		3
1623	Mapping Biopolymer Distributions In Microbial Communities. , 2004, , 121-142.		1
1624	Essential Roles of Extracellular Polymeric Substances in Aerobic Granulation. , 2007, , 181-194.		1

#	Article	IF	CITATIONS
1625	Effects of EPS on membrane fouling in a hybrid membrane bioreactor for municipal wastewater treatment. Membrane Water Treatment, 2014, 5, 1-14.	0.5	14
1626	Effects of Phosphorus on Loosely Bound and Tightly Bound Extracellular Polymer Substances in Aerobic Granular Sludge. Chemical and Biochemical Engineering Quarterly, 2019, 33, 59-68.	0.5	7
1627	Effect of Cellulase and Protease Pretreatment on Dewaterability of Waste Activated Sludge from Paper Mill. BioResources, 2014, 9, .	0.5	4
1628	Ecological Role of Exopolysaccharides of Bacillariophyta: A Review. International Journal on Algae, 2017, 19, 5-24.	0.1	7
1629	On the Contribution of Cell Aggregation and Extracellular DNA to Biofilm Formation and Stabilization in Azospirillum brasilense Bacteria. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2018, 18, 399-406.	0.0	1
1630	Influences of some pollutants on water quality of El-Bagouria Canal at Kafr El-Zayat Region, El-Gharbia Governorate, Egypt. Egyptian Journal of Aquatic Biology and Fisheries, 2016, 20, 89-111.	0.2	5
1631	Morpho-chemistry in secondary sludge filtration cakes: a case study. Water Science and Technology, 1997, 36, 93-99.	1.2	5
1633	Distribution of Extracellular Polymeric Substances and their Role in Aerobic Granule Formation. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2012, 33, 679-688.	0.7	12
1634	Extraction of enzymes from activated sludge. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	2
1635	Study of the extracellular polymeric substances (EPS) in different types of membrane bioreactor (MBR) effluents. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	5
1636	REMOVAL OF DYE AND CHEMICAL OXYGEN DEMAND (COD) REDUCTION FROM TEXTILE INDUSTRIAL WASTEWATER USING HYBRID BIOREACTORS. Environmental Engineering and Management Journal, 2014, 13, 43-50.	0.2	16
1638	Nutrient and enzymatic adaptations of stream biofilms to changes in nitrogen and phosphorus supply. Aquatic Microbial Ecology, 2015, 75, 91-102.	0.9	10
1639	Date Fruit as Carbon Source in RCM-Modified Medium to Produce Biobutanol by Clostridium acetobutylicum NCIMB 13357. Journal of Applied Sciences, 2012, 12, 1160-1165.	0.1	19
1640	Effect of Some Environmental Parameters on Biobutanol Production by Clostridium acetobutylicum NCIMB 13357 in Date Fruit Medium. Pakistan Journal of Biological Sciences, 2013, 16, 1145-1151.	0.2	9
1641	The role of lipids in activated sludge floc formation. AIMS Environmental Science, 2015, 2, 122-133.	0.7	7
1642	Extracellular polymeric substances, a key element in understanding biofilm phenotype. AIMS Microbiology, 2018, 4, 274-288.	1.0	191
1643	Composition and Molecular Identification of Bacterial Community in Seawater Desalination Plants. Advances in Microbiology, 2019, 09, 863-876.	0.3	1
1644	Kinetic and thermodynamic analyses of the corrosion inhibition of synthetic extracellular polymeric substances. , 0, 2, e4.		10

#	Article	IF	CITATIONS
1645	Evaluation of granular anaerobic ammonium oxidation process for the disposal of pre-treated swine manure. PeerJ, 2014, 2, e336.	0.9	6
1646	Effect of hydrodynamic conditions on the formation and structure of aerobic granular sludge performing enhanced biological phosphorus removal. Water and Environment Journal, 2022, 36, 56-66.	1.0	4
1647	Adaptability of organic matter and solid content to Fe2+/persulfate and skeleton builder conditioner for waste activated sludge dewatering. Environmental Science and Pollution Research, 2022, 29, 14819-14829.	2.7	3
1648	Deep dewatering of activated sludge using composite conditioners of surfactant, acid and flocculant: The mechanism and dosage model. Science of the Total Environment, 2022, 806, 150899.	3.9	10
1649	Calcium hypochlorite pretreatment improves thermophilic digestion of waste activated sludge in an upflow anaerobic sludge blanket reactor. Science of the Total Environment, 2022, 809, 151130.	3.9	8
1654	Flow Cytometry as a Powerful Tool for Monitoring Microbial Population Dynamics in Sludge. , 0, , .		0
1655	Formation Processes of Extracellular Polymeric Substances. Springer Theses, 2013, , 139-170.	0.0	0
1656	A Study on Fouling Characteristics and Applicability of Fouling Reducer in Submerged MBR Process. Daehan Hwan'gyeong Gonghag Hoeji, 2013, 35, 371-380.	0.4	1
1658	Optimization of Cultural Conditions for Extracellular Polymeric Substances (EPS) Production by Burkholderia Using Response Surface Methodology. Lecture Notes in Electrical Engineering, 2015, , 295-303.	0.3	0
1659	Comparison of Two Extraction Methods for Spirogyra Extracellular Polymeric Substances. , 2015, , .		0
1660	Impact du chaulage et de la digestion anaérobie sur la spéciation de 11 composés pharmaceutiques dans les boues urbaines et hospitaliÃïres. Techniques - Sciences - Methodes, 2016, , 31-43.	0.0	0
1661	BIOFILM MATRIX – CHEMICAL COMPOSITION, STRUCTURE, FUNCTIONS. Mikrobiologia I Biotehnologia, 2016, .	0.0	2
1662	Study on Adsorption Capacities of Heavy Metals in Biofilms Grown on Magnetic Carriers. , 2017, , .		1
1663	Ecological role of exopolysaccharides of Bacillariophyta: A review. Al'gologiya, 2017, 27, 22-44.	0.1	3
1664	The Application of Microbial Technology in Harbor Engineering: The Impact of Extracellular Polymeric Substances on the Sedimentation and Properties of Fluid Mud. Lecture Notes in Electrical Engineering, 2018, , 847-857.	0.3	0
1665	Spatio-temporal Identification on Cross Border Collaborative Research Trend of Great Lakes by Applied Mathematics Method. , 0, , .		0
1666	Hücre Dışı Polimerik Maddeler. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 0, , 168-179.	0.1	0
1667	Protein Adsorption Behavior on the Surface of the Microfiltration Membrane Based on a Quartz Crystal Microbalance (QCM). Journal of Chemical Engineering Research Updates, 2018, 5, 10-19.	0.1	Ο

#	Article	IF	CITATIONS
1668	Treatment of Effluent of the Cellulose and Paper Industry Using Aerobic Granular Sludge Thermophilic. International Journal of Advanced Engineering Research and Science, 2019, 6, 415-423.	0.0	0
1669	Disintegration of biological sludge. A comparison between ozone oxidation and ultrasonic pretreatment. Environmental Protection Engineering, 2019, 45, .	0.1	0
1672	Emphasis on the Devastating Impacts of Microbial Biofilms in Oil and Gas Facilities. Advances in Material Research and Technology, 2020, , 101-123.	0.3	0
1673	Microbial biofilms in the human: Diversity and potential significances in health and disease. , 2020, , 89-124.		1
1674	CHANGES IN GEL LAYER FORMED ON FLAT-SHEET CERAMIC MEMBRANES USED IN AN MBR:IMPACTS OF WAT TEMPERATURE. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2020, 76, III_157-III_163.	ER 0.1	0
1675	A review on promising strategy to decrease sludge production: Oxic-settling-anoxic/anaerobic process. Environmental Research and Technology, 2020, 3, 81-91.	0.8	4
1676	Synthesis of magnetic hydrochar from Fenton sludge and sewage sludge for enhanced anaerobic decolorization of azo dye AO7. Journal of Hazardous Materials, 2022, 424, 127622.	6.5	15
1677	Phycoremediation integrated approach for the removal of pharmaceuticals and personal care products from wastewater – A review. Journal of Environmental Management, 2022, 302, 113998.	3.8	24
1678	Understanding the synergistic mechanism of PAM-FeCl3 for improved sludge dewaterability. Journal of Environmental Management, 2022, 301, 113926.	3.8	20
1679	New insight into enhanced short-chain fatty acids production from waste activated sludge through pretreatment of cation exchange resin coupled NaCl addition. Journal of Environmental Management, 2022, 302, 114074.	3.8	19
1680	Long-term performance, membrane fouling behaviors and microbial community in a hollow fiber anaerobic membrane bioreactor (HF-AnMBR) treating synthetic terephthalic acid-containing wastewater. Journal of Hazardous Materials, 2022, 424, 127458.	6.5	23
1681	Dynamics of microbial community and their effects on membrane fouling in an anoxic-oxic gravity-driven membrane bioreactor under varying solid retention time: A pilot-scale study. Science of the Total Environment, 2022, 807, 150878.	3.9	12
1682	Fast identification of fluorescent components in three-dimensional excitation-emission matrix fluorescence spectra via deep learning. Chemical Engineering Journal, 2022, 430, 132893.	6.6	42
1683	Electrotaxis-mediated cell motility and nutrient availability determine Chlamydomonas microsphaera-surface interactions in bioelectrochemical systems. Bioelectrochemistry, 2022, 143, 107989.	2.4	2
1684	Enhanced performance of anaerobic two-phase reactor treating coal gasification wastewater with the assistance of zero valent iron under co-digestion conditions. Chemical Engineering Journal, 2022, 430, 131996.	6.6	13
1685	Waste-Activated Sludge Treatment Processes. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 241-263.	0.3	0
1686	Extraction methods of different morphotypes of surface coat in cyanobacteria. Hupo Kexue/Journal of Lake Sciences, 2020, 32, 887-898.	0.3	0
1687	A Study on Membrane Filtration Characteristics of Methanogenic Mixed Liquor in Two Phase Anaerobic Digestion of Food Waste. Daehan Hwan'gyeong Gonghag Hoeji, 2020, 42, 151-163.	0.4	О

#	Article	IF	CITATIONS
1688	Biopolymers in Aerobic Granular Sludge—Their Role in Wastewater Treatment and Possibilities of Re-Use in Line with Circular Economy. Energies, 2021, 14, 7219.	1.6	10
1691	In-situ manipulation of gel layer fouling into gel layer membrane formation on porous supports for water treatment. Arabian Journal of Chemistry, 2022, 15, 103526.	2.3	1
1692	Biofilm formation under high shear stress increases resilience to chemical and mechanical challenges. Biofouling, 2022, 38, 1-12.	0.8	12
1694	Examination of Extracellular Polymer (EPS) Extraction Methods for Anaerobic Membrane Bioreactor (AnMBR) Biomass. Sustainability, 2021, 13, 12584.	1.6	3
1695	Enhanced degradation of phenolic compounds in coal gasification wastewater by an iron‑carbon micro-electric field coupled with anaerobic co-digestion. Science of the Total Environment, 2022, 819, 151991.	3.9	15
1696	Dibutyl phthalate weakens the role of electroactive biofilm as an efficient wastewater handler and related mechanism. Science of the Total Environment, 2022, 807, 151612.	3.9	3
1697	Comprehensive investigation and mechanisms of drilling waste sludge dewaterability by Fe(â¡)/persulfate pretreatment. Journal of Environmental Chemical Engineering, 2021, 9, 106751.	3.3	7
1698	Insights into the Fouling Layer of Flat-Sheet Membrane and its Development in an Integrated Oxidation Ditch-Membrane Bioreactor. SSRN Electronic Journal, 0, , .	0.4	0
1699	Thermal Hydrolysis Pretreatment-Anaerobic Digestion Promotes Plant-Growth Biostimulants Production from Sewage Sludge by Upregulating Aromatic Amino Acids Transformation and Quinones Supply. Environmental Science & Technology, 2022, 56, 1938-1950.	4.6	22
1700	Antibiofilm activity of glycolic acid and glyoxal and their diffusion–reaction interactions with biofilm components. Food Research International, 2022, 152, 110921.	2.9	4
1701	Improving dewaterability of sewage sludge by inoculating acidified sludge and Fe2+: Performance and mechanisms. Chemical Engineering Research and Design, 2022, 158, 210-220.	2.7	10
1702	Function of Fe(III)-minerals in the enhancement of anammox performance exploiting integrated network and metagenomics analyses. Water Research, 2022, 210, 117998.	5.3	50
1703	Coagulants put phosphate-accumulating organisms at a competitive disadvantage with glycogen-accumulating organisms in enhanced biological phosphorus removal system. Bioresource Technology, 2022, 346, 126658.	4.8	6
1704	Chlorine-resistant bacteria (CRB) in the reverse osmosis system for wastewater reclamation: Isolation, identification and membrane fouling mechanisms. Water Research, 2022, 209, 117966.	5.3	12
1705	Insight into the generation and consumption mechanism of tightly bound and loosely bound extracellular polymeric substances by mathematical modeling. Science of the Total Environment, 2022, 811, 152359.	3.9	16
1706	Highly efficient solid-liquid separation of anaerobically digested liquor of food waste: Conditioning approach screening and mechanistic analysis. Science of the Total Environment, 2022, 811, 152416.	3.9	4
1707	An integrated investigation on anaerobic membrane-based thickening of fecal sludge and the role of extracellular polymeric substances (EPS) in solid-liquid separation. Journal of Environmental Management, 2022, 305, 114350.	3.8	4
1708	Phosphorus recovery in the alternating aerobic/anaerobic biofilm system: Performance and mechanism. Science of the Total Environment, 2022, 810, 152297.	3.9	16

#	Article	IF	CITATIONS
1709	Inhibition of Maillard reaction during alkaline thermal hydrolysis of sludge. Science of the Total Environment, 2022, 814, 152497.	3.9	15
1710	Changes of Microbial Community and Reactor Performance in Sequencing Batch Reactors Under Diclofenac Selective Pressure. Journal of Environmental Science and Engineering Technology, 2020, 8, 107-116.	0.1	0
1711	Effects of Waste Activated Sludge Extracellular Polymeric Substances on Biosorption. Water (Switzerland), 2022, 14, 218.	1.2	4
1712	Reduction of refractory Maillard reaction products by Fe3+ during thermal hydrolysis pretreatment and enhanced sludge biodegradability. Journal of Hazardous Materials, 2022, 430, 128400.	6.5	15
1713	Fate of sloughed biomass in integrated fixed-film systems. PLoS ONE, 2022, 17, e0262603.	1.1	5
1714	The Performance of Aerobic Granular Sludge Under Different Aeration Strategies at Low Temperature. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	3
1715	Improvement of sludge characteristics and mitigation of membrane fouling in the treatment of pesticide wastewater by electrochemical anaerobic membrane bioreactor. Water Research, 2022, 213, 118153.	5.3	22
1716	Effect of liquid carbon sources on nitrate removal, characteristics of soluble microbial products and microbial community in denitrification biofilters. Journal of Cleaner Production, 2022, 339, 130776.	4.6	34
1717	Insight into the role of different extracellular polymeric substances components on trimethoprim adsorption by activated sludge. Journal of Environmental Management, 2022, 306, 114502.	3.8	5
1718	How phenol stresses anammox for the treatment of ammonia-rich wastewater: Phenomena, microbial community evolution and molecular modeling. Bioresource Technology, 2022, 347, 126747.	4.8	13
1719	Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca2+ and delayed the calcification of granular sludge. Industrial Crops and Products, 2022, 178, 114584.	2.5	3
1720	Looking for lipases and lipolytic organisms in low-temperature anaerobic reactors treating domestic wastewater. Water Research, 2022, 212, 118115.	5.3	10
1721	Structuration of biosorbents in the form of reinforced gelled and porous composites based on Opuntia ficus indica (cactus) extract and sodium alginate. Journal of Water Process Engineering, 2022, 46, 102612.	2.6	3
1722	A unified operating procedure is crucial to evaluate sludge dewaterability, taking the setup of refrigerated storage time as an example. Journal of Environmental Management, 2022, 307, 114528.	3.8	5
1723	Effect of 4-nonylphenol on the performance and microbial community of a sequencing batch reactor. Journal of Environmental Chemical Engineering, 2022, 10, 107249.	3.3	7
1724	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. Journal of Environmental Chemical Engineering, 2022, 10, 107272.	3.3	7
1725	Cation exchange resin pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. Water Research, 2022, 212, 118130.	5.3	32
1726	Aggregation performance and adhesion behavior of microbes in response to feast/famine condition: Rapid granulation of aerobic granular sludge. Environmental Research, 2022, 208, 112780.	3.7	8

#	Article	IF	Citations
1727	A novel approach to estimate and control denitrification performance in activated sludge systems with respirogram technology. Journal of Environmental Sciences, 2022, 121, 112-121.	3.2	4
1728	Influential mechanism of water occurrence states of waste-activated sludge: Potential linkage between water-holding capacity and molecular compositions of EPS. Water Research, 2022, 213, 118169.	5.3	34
1729	Identifying targets for increased biogas production through chemical and organic matter characterization of digestate from full-scale biogas plants: what remains and why?. , 2022, 15, 16.		10
1730	Targeted clean extraction of phosphorus from waste activated sludge: From a new perspective of phosphorus occurrence states to an innovative approach through acidic cation exchange resin. Water Research, 2022, 215, 118190.	5.3	20
1731	Unravelling capability of two-stage thermophilic anaerobic membrane bioreactors for high organic loading wastewater: Effect of support media addition and irreversible fouling. Bioresource Technology, 2022, 348, 126725.	4.8	9
1732	Assessment of anaerobic membrane distillation bioreactor hybrid system at mesophilic and thermophilic temperatures treating textile wastewater. Journal of Water Process Engineering, 2022, 46, 102603.	2.6	11
1733	Distinctive differences in the granulation of saline and non-saline enriched anaerobic ammonia oxidizing (AMX) bacteria. Journal of Environmental Sciences, 2022, 122, 162-173.	3.2	5
1734	Bacteria of the genus Pseudomonas isolated from Antarctic substrates. Ukrainian Antarctic Journal, 2021, , 58-75.	0.1	10
1735	Biofilm Formation of Escherichia coli on Hydrophobic Steel Surface Provided by Laser-Texturing. Johnson Matthey Technology Review, 2023, 67, 186-196.	0.5	0
1736	Isolation of Microbial Polysaccharides. , 2022, , 439-452.		0
1737	Two-Phase Improves Bio-Hydrogen and Bio-Methane Production of Anaerobic Membrane Bioreactor from Waste Activated Sludge with Digestate Recirculation. SSRN Electronic Journal, 0, , .	0.4	0
1738	Desulphurization of Fgd Wastewater Through Bacterial Sulfate Reduction Process with Agricultural Incineration Bottom Ash as an Amendment. SSRN Electronic Journal, 0, , .	0.4	0
1739	Responses of Nitrogen Removal, Extracellular Polymeric Substances (EPSs), and Physicochemical Properties of Activated Sludge to Different Free Ammonia (FA) Concentrations. Water (Switzerland), 2022, 14, 620.	1.2	2
1740	Effects of Extracellular Polymeric Substances and Specific Compositions on Enhancement of Copper Bioleaching Efficiency from Waste Printed Circuit Boards. Sustainability, 2022, 14, 2503.	1.6	2
1741	Differences in the properties of extracellular polymeric substances responsible for PAH degradation isolated from Mycobacterium gilvum SN12 grown on pyrene and benzo[a]pyrene. Archives of Microbiology, 2022, 204, 227.	1.0	1
1742	Quantification of Biologically and Chemically Bound Phosphorus in Activated Sludge from Full-Scale Plants with Biological P-Removal. Environmental Science & Technology, 2022, 56, 5132-5140.	4.6	15
1743	Importance of substrate quality and clay content on microbial extracellular polymeric substances production and aggregate stability in soils. Biology and Fertility of Soils, 2022, 58, 435-457.	2.3	24
1744	Enhanced short-chain fatty acids production through a short-term anaerobic fermentation of waste activated sludge: Synergistic pretreatment of alkali and alkaline hydrolase blend. Journal of Cleaner Production, 2022, 342, 130954.	4.6	63

#	Article	IF	CITATIONS
1745	Sticky Stuff: Biological Cohesion for Scour and Erosion Prevention. Environmental Technology (United Kingdom), 2022, , 1-37.	1.2	1
1746	Response of antibiotic resistance genes and microbial niches to dissolved oxygen in an oxygen-based membrane biofilm reactor during greywater treatment. Science of the Total Environment, 2022, 833, 155062.	3.9	17
1747	Woven-fiber microfiltration coupled with anaerobic forward osmosis membrane bioreactor treating textile wastewater: Use of fertilizer draw solutes for direct fertigation. Biochemical Engineering Journal, 2022, 181, 108385.	1.8	8
1748	Reduction performance of microplastics and their behavior in a vermi-wetland during the recycling of excess sludge: A quantitative assessment for fluorescent polymethyl methacrylate. Science of the Total Environment, 2022, 832, 155005.	3.9	9
1749	Natural biofilm as a potential integrative sample for evaluating the contamination and impacts of PFAS on aquatic ecosystems. Water Research, 2022, 215, 118233.	5.3	28
1750	Comprehensively understanding metabolic pathways of protein during the anaerobic digestion of waste activated sludge. Chemosphere, 2022, 297, 134117.	4.2	31
1751	Systematic understanding of char-volatile evolution and interaction mechanism during sewage sludge pyrolysis through in-situ tracking solid-state reaction and products fate. Journal of Hazardous Materials, 2022, 432, 128669.	6.5	8
1752	Effects of hematite on the dissemination of antibiotic resistance in pathogens and underlying mechanisms. Journal of Hazardous Materials, 2022, 431, 128537.	6.5	5
1753	Desulphurization of FGD wastewater through bacterial sulfate reduction process with agricultural incineration bottom ash as an amendment. Journal of Water Process Engineering, 2022, 47, 102689.	2.6	3
1754	Reinterpretation of the mechanism of coagulation and its effects in waste activated sludge treatment. Separation and Purification Technology, 2022, 291, 120958.	3.9	7
1755	Enhancing methanogenesis of anaerobic granular sludge by incorporating Fe/Fe oxides nanoparticles aided with biofilm disassembly agents and mediating redox activity of extracellular polymer substances. Water Research, 2022, 216, 118293.	5.3	24
1756	Trace antibiotics increase the risk of antibiotic resistance genes transmission by regulating the biofilm extracellular polymeric substances and microbial community in the sewer. Journal of Hazardous Materials, 2022, 432, 128634.	6.5	31
1757	Degradation and utilization of EPS from excessive activated sludge by interaction of electrogenesis and light stimulation. Journal of Environmental Chemical Engineering, 2022, 10, 107557.	3.3	7
1758	Impact of Hydraulic Loading Rate on the Removal Performance and Filter-Bed Clogging of Horizontal-Subsurface-Flow Macrophyte-Assisted Vermifilter Treating Dairy Wastewater. Journal of Hazardous, Toxic, and Radioactive Waste, 2022, 26, .	1.2	7
1759	Effect of Plant Roots on Clogging and Treatment Performance of Horizontal Subsurface Flow Vermifilter for Synthetic Dairy Wastewater. Journal of Hazardous, Toxic, and Radioactive Waste, 2022, 26, .	1.2	6
1760	The essential role of hydrophobic interaction within extracellular polymeric substances in auto-aggregation of P. stutzeri strain XL-2. International Biodeterioration and Biodegradation, 2022, 171, 105404.	1.9	11
1761	Unravelling gradient layers of microbial communities, proteins, and chemical structure in aerobic granules. Science of the Total Environment, 2022, 829, 154253.	3.9	8
1762	ISOLATION OF BACTERIA FROM THE SITES OF FEED AND NESTING ACTIVITY OF LARUS DOMINICANUS (GALINDEZISLAND, THE MARITIMEANTARCTIC) AND THEIR CHARACTERISTICS. Mikrobiologia I Biotehnologia, 2021, , 44-59.	0.0	1

#	Article	IF	CITATIONS
1764	Chemotactic movement and zeta potential dominate <i>Chlamydomonas microsphaera</i> attachment and biocathode development. Environmental Technology (United Kingdom), 2023, 44, 1838-1849.	1.2	1
1765	Bio-immobilization and recovery of chromium using a denitrifying biofilm system: Identification of reaction zone, binding forms and end products. Journal of Environmental Sciences, 2023, 126, 70-80.	3.2	11
1766	Overview of multi-species biofilms in different ecosystems: Wastewater treatment, soil and oral cavity. Journal of Biotechnology, 2022, 350, 67-74.	1.9	8
1777	Effect of Different Types of Fillers in Membrane Bioreactors (Mbr) for Greywater Treatment and Membrane Fouling. SSRN Electronic Journal, 0, , .	0.4	0
1778	The effect of aeration mode on the operational effectiveness and membrane bioreactors for greywater treatment and membrane fouling. Environmental Engineering Research, 2023, 28, 210637-0.	1.5	5
1779	Effect of powdered activated carbon addition on membrane performance and fouling in anaerobic membrane bioreactor. International Journal of Environmental Science and Technology, 2023, 20, 3191-3204.	1.8	1
1780	Soil Amended With Organic Matter Increases Fluvial Erosion Resistance of Cohesive Streambank Soil. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	3
1781	The Role of Extracellular Polymeric Substances in Micropollutant Removal. Frontiers in Chemical Engineering, 2022, 4, .	1.3	17
1782	Laboratory Grown Biofilms of Bacteria Associated with Human Atherosclerotic Carotid Arteries Release Collagenases and Gelatinases during Iron-Induced Dispersion. Microbiology Spectrum, 2022, , e0100121.	1.2	2
1783	Biofilm-inspired Amyloid-Polysaccharide Composite Materials. Applied Materials Today, 2022, 27, 101497.	2.3	4
1784	Understanding roles of humic substance and protein on iron phosphate transformation during anaerobic fermentation of waste activated sludge. Bioresource Technology, 2022, 355, 127242.	4.8	7
1785	Sludge reduction and microbial community evolution of activated sludge induced by metabolic uncoupler o-chlorophenol in long-term anaerobic-oxic process. Journal of Environmental Management, 2022, 316, 115230.	3.8	5
1786	Quantifying the thermochemical pathways of soluble organics in sewage sludge flocs during pyrolysis for precursor optimization and by-product control. Chemical Engineering Journal, 2022, 444, 136627.	6.6	11
1787	Nitrogen removal characteristics of biofilms in each area of a full-scale AAO oxidation ditch process. Chemosphere, 2022, 302, 134871.	4.2	11
1788	Towards a Better Understanding of Long-Term Self-Forming Dynamic Membrane Bioreactor (SFDMBR) Performance: Effect of Aeration Intensity. Water (Switzerland), 2022, 14, 1561.	1.2	0
1789	Extracellular Polymeric Substances and Biocorrosion/Biofouling: Recent Advances and Future Perspectives. International Journal of Molecular Sciences, 2022, 23, 5566.	1.8	16
1790	Exopolysaccharides from Microalgae and Cyanobacteria: Diversity of Strains, Production Strategies, and Applications. Marine Drugs, 2022, 20, 336.	2.2	46
1791	Co-Impacts of the Microplastic Polyamide and Sertraline on the Denitrification Function and Microbial Community Structure in Sbrs. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
1792	The impact of synthetic musk compounds in biofilms from drinking water bacteria. Journal of Hazardous Materials, 2022, 436, 129185.	6.5	6
1793	Membrane Photobioreactor Applied for Municipal Wastewater Treatment at a High Solids Retention Time: Effects of Microalgae Decay on Treatment Performance and Biomass Properties. Membranes, 2022, 12, 564.	1.4	8
1794	Effect of carbon to nitrogen ratio of food waste and short resting period on microbial accumulation during anaerobic digestion. Biomass and Bioenergy, 2022, 162, 106481.	2.9	17
1795	Contrasting behaviors of pre-ozonation on ceramic membrane biofouling: Early stage vs late stage. Water Research, 2022, 220, 118702.	5.3	12
1796	Performance and mechanism of anaerobic granular sludge enhancing uranium immobilization via extracellular polymeric substances in column reactors and batch experiments. Journal of Cleaner Production, 2022, 363, 132517.	4.6	8
1797	Evaluation of membrane fouling in a microalgal-bacterial membrane photobioreactor: Effects of SRT. Science of the Total Environment, 2022, 839, 156414.	3.9	15
1798	Valorization of full-scale waste aerobic granular sludge for biogas production and the characteristics of the digestate. Chemosphere, 2022, 303, 135167.	4.2	14
1799	Protein-Based Flocculants and Their Applications. ACS Symposium Series, 0, , 305-330.	0.5	4
1800	C058 and Other Functional Microorganisms Promote the Synthesis of Extracellular Polymer Substances in Mycelium Biofloc. Catalysts, 2022, 12, 693.	1.6	2
1801	Co-impacts of the microplastic polyamide and sertraline on the denitrification function and microbial community structure in SBRs. Science of the Total Environment, 2022, 843, 156928.	3.9	2
1802	Synthesis of hydrolyzate-Cu3(PO4)2 hybrid nanoflowers from the alkaline thermal hydrolysate of sludge. Materials Today Communications, 2022, 31, 103824.	0.9	0
1803	A novel application of dissolved ozone flotation on sewage sludge thickening: Performance and mechanism investigation. Science of the Total Environment, 2022, 842, 156874.	3.9	5
1804	The role of surface adhesion on the macroscopic wrinkling of biofilms. ELife, 0, 11, .	2.8	11
1805	Advances in exopolysaccharide production from marine bacteria. Journal of Chemical Technology and Biotechnology, 2022, 97, 2694-2705.	1.6	9
1806	Performance and mechanism of tetracycline removal by the aerobic nitrate-reducing strain Pseudomonas sp. XS-18 with auto-aggregation. Bioresource Technology, 2022, 359, 127442.	4.8	3
1807	Insights into the response of anammox sludge to the combined stress of nickel and salinity. Science of the Total Environment, 2022, 842, 156670.	3.9	8
1808	Influence of alternating electric field on deep dewatering of municipal sludge and changes of extracellular polymeric substance during dewatering. Science of the Total Environment, 2022, 842, 156839.	3.9	11
1809	Intracellular and Extracellular Sources, Transformation Process and Resource Recovery Value of Proteins Extracted from Wastewater Treatment Sludge Via Alkaline Thermal Hydrolysis and Enzymatic Hydrolysis. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
1810	The Photosensitivity Sources of Dissolved Organic Matter from Wastewater Treatment Plants and Mediates 171±-Ethinylestradiol Photodegradation. SSRN Electronic Journal, 0, , .	0.4	0
1811	Interactions between tannins allelochemicals and extracellular polymeric substance (EPS) of Microcystis aeruginosa. Environmental Science and Pollution Research, 2022, 29, 83211-83219.	2.7	6
1812	Size-dependent effects of polystyrene microplastics on anaerobic digestion performance of food waste: Focusing on oxidative stress, microbial community, key metabolic functions. Journal of Hazardous Materials, 2022, 438, 129493.	6.5	15
1813	The effects of chlortetracycline on anaerobic digestion of chicken manure and the role of extracellular polymeric substances. Journal of Cleaner Production, 2022, 367, 133014.	4.6	5
1814	Combining high pressure homogenization with free nitrous acid pretreatment to improve anaerobic digestion of sewage sludge. Journal of Environmental Management, 2022, 318, 115635.	3.8	9
1815	Use of ultrafiltration ceramic membranes as a first step treatment for olive oil washing wastewater. Food and Bioproducts Processing, 2022, 135, 60-73.	1.8	7
1816	Enrichment of functional microorganisms in AAO segmental influent-biofilm filler coupling process to improve the pollutants removal efficiency at low temperature. Journal of Water Process Engineering, 2022, 49, 102985.	2.6	6
1817	Electron donor addition for stimulating the microbial degradation of 1,4 dioxane by sequential batch membrane bioreactor: A techno-economic approach. Chemosphere, 2022, 306, 135580.	4.2	13
1818	Ecological restoration performance enhanced by nano zero valent iron treatment in constructed wetlands under perfluorooctanoic acid stress. Science of the Total Environment, 2022, 846, 157413.	3.9	9
1819	Intermolecular Adhesion Forces Elucidate the Formation of Denitrifying Granular Sludge Driven by Acidic Ph. SSRN Electronic Journal, 0, , .	0.4	0
1820	Anaerobic Co-Digestion of Sugarcane Leaves, Cow Dung and Food Waste: Focus on Methane Yield and Synergistic Effects. Fermentation, 2022, 8, 399.	1.4	5
1821	Responses of microbial interactions to polyvinyl chloride microplastics in anammox system. Journal of Hazardous Materials, 2022, 440, 129807.	6.5	13
1822	Small biochar addition enhanced anammox granular sludge system for practical wastewater treatment: Performance and microbial community. Bioresource Technology, 2022, 363, 127749.	4.8	18
1823	Biochar Effectively Inhibits the Horizontal Transfer of Antibiotic Resistance Genes via Restraining the Energy Supply for Conjugative Plasmid Transfer. Environmental Science & Technology, 2022, 56, 12573-12583.	4.6	17
1824	Diet Shift May Trigger LuxS/Al-2 Quorum Sensing in Rumen Bacteria. Bioengineering, 2022, 9, 379.	1.6	2
1825	Biochar facilitates ferrihydrite reduction by Shewanella oneidensis MR-1 through stimulating the secretion of extracellular polymeric substances. Science of the Total Environment, 2022, 848, 157560.	3.9	13
1826	Landfill leachate treatment by graphite engineered anaerobic membrane bioreactor: Performance enhancement and membrane fouling mitigation. Environmental Research, 2022, 214, 114010.	3.7	13
1827	Reconsidering operation pattern for cation-exchange resin assistant anaerobic fermentation of waste activated sludge: Shorting residence period towards dosage-reduction and anti-fouling. Chemosphere, 2022, 307, 135920.	4.2	12

#	Article	IF	Citations
1828	Highâ´'saline and longâ´'term treatability of industrial wastewater by AnOMBR using organic and inorganic draw solutions. Journal of Environmental Chemical Engineering, 2022, 10, 108501.	3.3	2
1829	The nitrogen removal performance and microbial community on mixotrophic denitrification process. Bioresource Technology, 2022, 363, 127901.	4.8	18
1830	A novel treatment for amelioration of sludge dewaterability using green starch-grafted flocculant and realized mechanism. Separation and Purification Technology, 2022, 301, 122060.	3.9	7
1831	Revealing the microbial mechanism of FeO and MnO2 mediated microbial fuel cell-anaerobic digestion coupling system and its energy flow distribution. Chemosphere, 2022, 308, 136597.	4.2	1
1832	Intracellular and extracellular sources, transformation process and resource recovery value of proteins extracted from wastewater treatment sludge via alkaline thermal hydrolysis and enzymatic hydrolysis. Science of the Total Environment, 2022, 852, 158512.	3.9	7
1833	The quorum sensing system of Novosphingobium sp. ERNO7 regulates aggregate formation that promotes cyanobacterial growth. Science of the Total Environment, 2022, 851, 158354.	3.9	4
1834	Develop a Novel Sludge Treatment: Effects of a Green Starch-Grafted Flocculant on Bound Water, Protein and Hydrophobic Substance in Sludge Dewatering. SSRN Electronic Journal, 0, , .	0.4	0
1835	Characteristics of Biotrickling Filter System for Hydrogen Sulfide Removal with Seasonal Temperature Variations: A Strategy for Low Temperature Conditions. SSRN Electronic Journal, 0, , .	0.4	0
1836	Direct Start-Up of Aerobic Granular Sludge System with Dewatered Sludge Granular Particles as Inoculant. SSRN Electronic Journal, 0, , .	0.4	0
1837	The Nitrogen Removal Performance and Microbial Community on Mixotrophic Denitrification Process. SSRN Electronic Journal, 0, , .	0.4	0
1838	Two-Phase improves Bio-hydrogen and Bio-methane production of anaerobic membrane bioreactor from waste activated sludge with digestate recirculation. Chemical Engineering Journal, 2023, 452, 139547.	6.6	11
1839	A-Stage process – Challenges and drawbacks from lab to full scale studies: A review. Water Research, 2022, 226, 119044.	5.3	6
1840	Design Strategies for Strainâ€Insensitive Wearable Healthcare Sensors and Perspective Based on the Seebeck Coefficient. Advanced Electronic Materials, 2023, 9, .	2.6	2
1841	Biofilm formation and inhibition mediated by bacterial quorum sensing. Applied Microbiology and Biotechnology, 2022, 106, 6365-6381.	1.7	43
1842	The fate of extracellular proteins and polysaccharides of waste activated sludge oxidative in aqueous and granular sludge phase upon degradation using Fe(II)-persulfate conditioning. Chemical Engineering Journal, 2023, 452, 139629.	6.6	5
1843	Enhanced biofilm formation and denitrification in slow sand filters for advanced nitrogen removal by powdery solid carbon sources addition. Journal of Water Process Engineering, 2022, 50, 103192.	2.6	7
1844	The Roles of Different Fractions in Freshwater Biofilms in the Photodegradation of Methyl Orange and Bisphenol A in Aqueous Solutions. International Journal of Environmental Research and Public Health, 2022, 19, 12995.	1.2	1
1845	Performance and mechanisms of greywater treatment in a bio-enhanced granular-activated carbon dynamic biofilm reactor. Npj Clean Water, 2022, 5, .	3.1	6

~			_		
C 1^{-}	ΓΛΤΙ	ON	PF	DO	DT
			NL	FO	

#	Article	IF	CITATIONS
1846	Experimental challenges in determining the rheological properties of bacterial biofilms. Interface Focus, 2022, 12, .	1.5	5
1847	Extraction, characterization, and biosurfactant properties of extracellular polymeric substance from textile wastewater activated sludge. Journal of Bioscience and Bioengineering, 2022, 134, 508-512.	1.1	10
1848	Influence of physicochemical and hydrodynamic growth conditions on biofilm adhesion in a moving bed biofilm reactor. International Journal of Environmental Science and Technology, 0, , .	1.8	0
1849	Biofilm stratification in counter-diffused membrane biofilm bioreactors (MBfRs) for aerobic methane oxidation coupled to aerobic/anoxic denitrification: Effect of oxygen pressure. Water Research, 2022, 226, 119243.	5.3	8
1850	Nitrogen and phosphorus removal by coupling Anaerobic ammonia oxidation reaction with algal-bacterial symbiotic system. Journal of Environmental Chemical Engineering, 2022, 10, 108905.	3.3	2
1851	Continuously feeding fenton sludge into anaerobic digesters: Iron species change and operating stability. Water Research, 2022, 226, 119283.	5.3	8
1852	Influence of extracellular polymeric substances on electrochemical behaviours of stainless steels in circulating cooling water. Materials Chemistry and Physics, 2023, 293, 126892.	2.0	4
1853	Enhanced paper sludge dewatering and in-depth mechanism by oxalic acid/Fe2+/persulfate process. Chemosphere, 2023, 311, 136966.	4.2	6
1854	Characteristics of biotrickling filter system for hydrogen sulfide removal with seasonal temperature variations: A strategy for low temperature conditions. Science of the Total Environment, 2023, 857, 159617.	3.9	1
1855	Nanofiltration of wastewaters from olive oil production: Study of operating conditions and analysis of fouling by 2D fluorescence and FTIR spectroscopy. Chemical Engineering Journal, 2023, 454, 140025.	6.6	6
1856	Impact of hydrophilic functional groups of macromolecular organic fractions on food waste digestate dewaterability. Journal of Environmental Management, 2023, 326, 116722.	3.8	5
1857	Effects of biofilms on the retention and transport of PFOA in saturated porous media. Journal of Hazardous Materials, 2023, 443, 130392.	6.5	3
1858	Sewage Sludge Biorefinery for Circular Economy. Sustainability, 2022, 14, 14841.	1.6	12
1859	Intermolecular adhesion forces explain the formation of denitrifying granular sludge driven by acidic pH under ambient temperature. Chemical Engineering Journal, 2023, 454, 140314.	6.6	7
1860	lonic Strength-Dependent Attachment of <i>Pseudomonas aeruginosa</i> PAO1 on Graphene Oxide Surfaces. Environmental Science & Technology, 2022, 56, 16707-16715.	4.6	6
1861	Enhanced degradation of phenolic compounds in coal gasification wastewater by activated carbon-Fe3O4 nanoparticles coupled with anaerobic co-metabolism. Biochemical Engineering Journal, 2022, 189, 108717.	1.8	2
1862	Extracellular polymeric substances trigger microbial immigration from partial denitrification (PD) to anammox biofilms in a long-term operated PD/anammox process in low-strength wastewater. Water Research, 2023, 229, 119382.	5.3	18
1863	High propensity of membrane fouling and the underlying mechanisms in a membrane bioreactor during occurrence of sludge bulking. Water Research, 2023, 229, 119456.	5.3	44

#	Article	IF	CITATIONS
1864	Genetic potential for exopolysaccharide synthesis in activated sludge bacteria uncovered by genome-resolved metagenomics. Water Research, 2023, 229, 119485.	5.3	17
1865	The compensation of micro-carriers on hydraulic shear force during aerobic sludge granulation. Journal of Water Process Engineering, 2023, 51, 103379.	2.6	3
1866	Applying response surface methodology to optimize partial nitrification in sequence batch reactor treating salinity wastewater. Science of the Total Environment, 2023, 862, 160802.	3.9	4
1867	The coexistence of copper ions and TC affected the binding ability and the reaction order between extracellular polymeric substances of aerobic granular sludge and exogenous substances. Environmental Science and Pollution Research, 0, , .	2.7	1
1868	Fabrication, characterization and treatment of polymeric membranes with submerged membrane bioreactor system: fruit juice industry wastewater. International Journal of Environmental Science and Technology, 2023, 20, 6419-6432.	1.8	4
1869	Characterising soil extracellular polymeric substances (EPS) by application of spectral-chemometrics and deconstruction of the extraction process. Chemical Geology, 2023, 618, 121271.	1.4	5
1870	Extracting extracellular polymeric substances from fungi in contrasts: from quantity to quality. Applied Microbiology and Biotechnology, 2023, 107, 943-954.	1.7	2
1871	Influence of type of production on the contents of selected nutrients/phytochemicals in buckwheat grains. Acta Agriculturae Serbica, 2022, 27, 107-113.	0.1	0
1872	Temperature-specific adaptations and genetic requirements in a biofilm formed by Pseudomonas aeruginosa. Frontiers in Microbiology, 0, 13, .	1.5	5
1873	Basic principles and effective parameters for microalgae–bacteria granulation in wastewater treatment: a mini review. International Journal of Environmental Science and Technology, 0, , .	1.8	1
1874	The enhanced dewaterability of sludge by a starch-based flocculant combined with attapulgite. Scientific Reports, 2023, 13, .	1.6	2
1875	Towards maximum value creation from potato protein liquor: volatile fatty acids production from fungal cultivation effluent. Biomass Conversion and Biorefinery, 0, , .	2.9	2
1876	GN/Fe2O3-based aerobic granular sludge for enhanced formation and synchronous nitrification-denitrification: Promote the secretion of polysaccharides and enrichment of denitrifying bacteria. Journal of Water Process Engineering, 2023, 51, 103475.	2.6	2
1877	Divalent cation chelation enhancing carbon migration and recovery from anaerobic fermentation of waste activated sludge. Chemical Engineering Journal, 2023, 457, 141374.	6.6	10
1878	Steam explosion coupled with freeze-thaw cycles: An efficient and environmentally friendly method for deep dewatering of sewage sludge. Journal of Water Process Engineering, 2023, 51, 103462.	2.6	3
1879	Photosensitivity sources of dissolved organic matter from wastewater treatment plants and their mediation effect on 17α-ethinylestradiol photodegradation. Frontiers of Environmental Science and Engineering, 2023, 17, .	3.3	4
1880	Behavior of Sludge Dewaterability and Nutrient Contents after Treatment with Cellulose-Based Flocculants with Combined PTS and Catalytic Behavior of Sludge towards Tetracycline Degradation. Resources, 2023, 12, 17.	1.6	1
1881	A comparative study of the accumulation and detoxification of copper and zinc in Chlamydomonas reinhardtii: The role of extracellular polymeric substances. Science of the Total Environment, 2023, 871, 161995.	3.9	7

#	Article	IF	CITATIONS
1882	Chemical extraction and quantification of extracellular polymeric substances in unspiked-metaldehyde and spiked-metaldehyde of rubber aerobic granular sludge and molasses aerobic granular sludge. Environmental Engineering Research, 0, , .	1.5	1
1883	Aggregation and construction mechanisms of microbial extracellular polymeric substances with the presence of different multivalent cations: Molecular dynamic simulation and experimental verification. Water Research, 2023, 232, 119675.	5.3	11
1884	Enhancing short-chain fatty acids recovery through anaerobic fermentation of waste activated sludge with cation exchange resin assisted lysozyme pretreatment: Performance and mechanism. Separation and Purification Technology, 2023, 310, 123231.	3.9	2
1885	Novel high-throughput screening platform identifies enzymes to tackle biofouling on reverse osmosis membranes. Desalination, 2023, 554, 116485.	4.0	8
1886	Dissolved organic matter transformation mechanisms and process optimization of wastewater sludge hydrothermal humification treatment for producing plant biostimulants. Water Research, 2023, 235, 119910.	5.3	11
1887	Aerobic biodegradation of quinoline under denitrifying conditions in membrane-aerated biofilm reactor. Environmental Pollution, 2023, 326, 121507.	3.7	3
1888	Enhanced co-digestion of sewage sludge and food waste using novel electrochemical anaerobic membrane bioreactor (EC-AnMBR). Bioresource Technology, 2023, 377, 128939.	4.8	12
1889	Non-filamentous sludge bulking induced by exopolysaccharide variation in structure and properties during aerobic granulation. Science of the Total Environment, 2023, 876, 162786.	3.9	8
1890	Earthworms restructure the distribution of extracellular antibiotics resistance genes of sludge by modifying the structure of extracellular polymeric substances during vermicomposting. Journal of Hazardous Materials, 2023, 452, 131315.	6.5	6
1891	Insights into the role of ·OH generated in Fe2+/CaO2/coal slime system for efficient extracellular polymeric substances degradation to improve dewaterability of sewage sludge. Chemosphere, 2023, 326, 138443.	4.2	5
1892	Effects of organic carbon sources on algal biofilm formation and insight into mechanism. Algal Research, 2023, 71, 103075.	2.4	4
1893	Anaerobic sludge digestion elevates dissemination risks of bacterial antibiotic resistance in effluent supernatant. Journal of Environmental Management, 2023, 338, 117854.	3.8	2
1894	Deciphering the microheterogeneous repartition effect of environmental matrix on surface-enhanced Raman spectroscopy (SERS) analysis for pollutants in natural waters. Water Research, 2023, 232, 119668.	5.3	11
1895	Enhancing volatile fatty acids accumulation through anaerobic co-fermentation of excess sludge and sodium citrate: Divalent cation chelation and carbon source supplement. Separation and Purification Technology, 2023, 311, 123356.	3.9	13
1896	Applying lysozyme, alkaline protease, and sodium hypochlorite to reduce bioclogging during managed aquifer recharge: A laboratory study. Journal of Environmental Management, 2023, 332, 117371.	3.8	1
1897	Role of Hydrodynamic Shear in the Oxygenic Photogranule (OPC) Wastewater Treatment Process. ACS ES&T Water, 2023, 3, 659-668.	2.3	2
1898	Biogenic Fe Incorporation into Anaerobic Granular Sludge Assisted by <i>Shewanella oneidensis</i> MR-1 Enhanced Interspecies Electron Transfer and Methane Production. ACS Sustainable Chemistry and Engineering, 2023, 11, 3001-3011.	3.2	6
1899	Sensitive and Accurate Differentiation of Extracellular Polymeric Substance Hydrolysis Using Flow Cytometry during Biofilm Extracellular Polymeric Substance Extraction. ACS ES&T Water, 2023, 3, 1019-1028.	2.3	1

#	Article	IF	CITATIONS
1900	The effect of repeated energy inputs on the release profiles of extracellular organic substances in sewage sludge. Water Research, 2023, 233, 119776.	5.3	2
1901	Enhancement of biogranules development using magnetized powder activated carbon. Biodegradation, 0, , .	1.5	1
1902	Molecular insights into enhanced nitrogen removal induced by trace fluoroquinolone antibiotics in an anammox system. Bioresource Technology, 2023, 374, 128784.	4.8	9
1903	Composition and molecular structure analysis of hydrophilic/hydrophobic extracellular polymeric substances (EPS) with impacts on sludge dewaterability. Chemical Engineering Journal, 2023, 462, 142234.	6.6	15
1904	Aquatic Bacteria Rheinheimera tangshanensis New Ability for Mercury Pollution Removal. International Journal of Molecular Sciences, 2023, 24, 5009.	1.8	1
1905	Biorefinery of Sewage Sludge: Overview of Possible Value-Added Products and Applicable Process Technologies. Water (Switzerland), 2023, 15, 1195.	1.2	9
1906	Decoding the Role of Extracellular Polymeric Substances in Enhancing Nitrogen Removal from High-Ammonia and Low-C/N Wastewater in a Sequencing Batch Packed-Bed Biofilm Reactor. Polymers, 2023, 15, 1510.	2.0	0
1907	Purification capacity of natural biofilms and their physiochemical and biological properties: a case study in the Jishan River, a heavily polluted river. Water Science and Technology: Water Supply, 2023, 23, 1611-1625.	1.0	0
1908	An Innovative Waterwheel-Rotating Biological Contactor (WRBC) System for Rural Sewage Treatment. Water (Switzerland), 2023, 15, 1323.	1.2	1
1909	Microplastics enhanced the toxic effects of sulfamethoxazole on aerobic granular sludge and enriched antibiotic resistance genes. Chemical Engineering Journal, 2023, 464, 142783.	6.6	6
1910	A green coâ€treatment to accelerate the hydrolysis of sludge during anaerobic fermentation using free nitrous acid and sodium citrate. Journal of Chemical Technology and Biotechnology, 0, , .	1.6	0
1912	Life cycle assessment: Sustainability of biodiesel production from black soldier fly larvae feeding on thermally pre-treated sewage sludge under a tropical country setting. Waste Management, 2023, 164, 238-249.	3.7	10
1930	Lipidomics profiling of microbial biofilm. , 2023, , 225-233.		0
1931	Multispecies metabolomics interactions resulting in the development of resistance. , 2023, , 133-150.		0
1938	Worldwide Research Progress and Trend in Sludge Treatment and Disposal: A Bibliometric Analysis. ACS ES&T Engineering, 2023, 3, 1083-1097.	3.7	7
1955	Extraction and application of extracellular polymeric substances from fungi. Advances in Applied Microbiology, 2023, , .	1.3	0
1957	Thermal Effect on Algae, Biofilm and Their Composition Towards Membrane Distillation Unit: A Mini-review. Molecular Biotechnology, 0, , .	1.3	0
2026	Bio-Beneficiation: Relevance to Mineral Processing. Advances in Science, Technology and Innovation, 2024, , 111-134.	0.2	1

#	Article	IF	CITATIONS
2033	Granular Sludge—State of the Art. Springer Theses, 2024, , 37-163.	0.0	0