Yang Liu

List of Publications by Year in descending order

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242	8,146	41344	76900
papers	citations	49 h-index	74 g-index

246	246	246	8205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A critical review of microbial electrolysis cells coupled with anaerobic digester for enhanced biomethane recovery from high-strength feedstocks. Critical Reviews in Environmental Science and Technology, 2022, 52, 50-89.	12.8	27
2	Municipal wastewater treatment using a membrane aerated biofilm reactor. Journal of Environmental Engineering and Science, 2022, 17, 99-107.	0.8	3
3	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.	12.4	18
4	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.	8.0	8
5	Roles of granular activated carbon (GAC) and operational factors on active microbiome development in anaerobic reactors. Bioresource Technology, 2022, 343, 126104.	9.6	10
6	Impacts of granular activated carbon addition on anaerobic granulation in blackwater treatment. Environmental Research, 2022, 206, 112406.	7.5	17
7	Microbial co-occurrence network topological properties link with reactor parameters and reveal importance of low-abundance genera. Npj Biofilms and Microbiomes, 2022, 8, 3.	6.4	52
8	Calcium Hypochlorite Pretreatment Enhances Waste-Activated Sludge Degradation during Aerobic Digestion. Journal of Environmental Engineering, ASCE, 2022, 148, .	1.4	2
9	Effective N2O emission control during the nitritation/denitritation treatment of ammonia rich wastewater. Journal of Environmental Chemical Engineering, 2022, 10, 107234.	6.7	6
10	Dopamine Assisted Self-Cleaning, Antifouling, and Antibacterial Coating via Dynamic Covalent Interactions. ACS Applied Materials & Interfaces, 2022, 14, 9557-9569.	8.0	37
11	Enhancing the resistance to H2S toxicity during anaerobic digestion of low-strength wastewater through granular activated carbon (GAC) addition. Journal of Hazardous Materials, 2022, 430, 128473.	12.4	18
12	Effect of phosphate and ammonium concentrations, total suspended solids and alkalinity on lignin-induced struvite precipitation. Scientific Reports, 2022, 12, 2901.	3.3	6
13	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.	8.0	17
14	Metagenomic insights into direct interspecies electron transfer and quorum sensing in blackwater anaerobic digestion reactors supplemented with granular activated carbon. Bioresource Technology, 2022, 352, 127113.	9.6	26
15	Modeling and optimization of an upflow anaerobic sludge blanket (UASB) system treating blackwaters. Journal of Environmental Chemical Engineering, 2022, 10, 107614.	6.7	6
16	Hyperbranched Polyesters Based on Indole- and Lignin-Derived Monomeric Aromatic Aldehydes as Effective Nonionic Antimicrobial Coatings with Excellent Biocompatibility. Biomacromolecules, 2022, 23, 150-162.	5.4	13
17	Anaerobic digestion of thickened waste activated sludge under calcium hypochlorite stress: Performance stability and microbial communities. Environmental Research, 2022, 212, 113441.	7.5	7
18	Importance of low-abundance microbial species in response to disturbances in wastewater bioreactors. Chemical Engineering Research and Design, 2022, 162, 663-671.	5.6	4

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19	Effluent recirculation weakens the hydrolysis of high-solid content feeds in upflow anaerobic sludge blanket reactors. Journal of Environmental Chemical Engineering, 2022, 10, 107913.	6.7	5
20	A multifaceted screening of applied voltages for electro-assisted anaerobic digestion of blackwater: Significance of temperature, hydrolysis/acidogenesis, electrode corrosion, and energy efficiencies. Bioresource Technology, 2022, 360, 127533.	9.6	4
21	Phosphorus Removal from Aerobic Granular Sludge: Proliferation of Polyphosphate-Accumulating Organisms (PAOs) under Different Feeding Strategies. Processes, 2022, 10, 1399.	2.8	5
22	Mature landfill leachate treatment using granular sludge-based reactor (GSR) via nitritation/denitritation: Process startup and optimization. Science of the Total Environment, 2022, 844, 157078.	8.0	10
23	A highâ€rate anaerobic biofilm reactor for biomethane recovery from sourceâ€separated blackwater at ambient temperature. Water Environment Research, 2021, 93, 61-74.	2.7	11
24	Impacts of conductive materials on microbial community during syntrophic propionate oxidization for biomethane recovery. Water Environment Research, 2021, 93, 84-93.	2.7	28
25	Self-fluidized GAC-amended UASB reactor for enhanced methane production. Chemical Engineering Journal, 2021, 420, 127652.	12.7	24
26	Microbial community dynamics in granular activated carbon enhanced up-flow anaerobic sludge blanket (UASB) treating municipal sewage under sulfate reducing and psychrophilic conditions. Chemical Engineering Journal, 2021, 405, 126957.	12.7	30
27	Evolution of extracellular polymeric substances (EPS) in aerobic sludge granulation: Composition, adherence and viscoelastic properties. Chemosphere, 2021, 262, 128033.	8.2	46
28	Simultaneous Phosphorus Recovery in Energy Generation Reactor (SPRING): High Rate Thermophilic Blackwater Treatment. Resources, Conservation and Recycling, 2021, 164, 105163.	10.8	24
29	Role of syntrophic acetate oxidation and hydrogenotrophic methanogenesis in co-digestion of blackwater with food waste. Journal of Cleaner Production, 2021, 283, 125393.	9.3	14
30	Effect of feeding strategy and organic loading rate on the formation and stability of aerobic granular sludge. Journal of Water Process Engineering, 2021, 39, 101709.	5.6	38
31	State-of-the-art technologies for continuous high-rate biohydrogen production. Bioresource Technology, 2021, 320, 124304.	9.6	73
32	Mechanisms and kinetics of greywater treatment using biologically active granular activated carbon. Chemosphere, 2021, 263, 128113.	8.2	27
33	Release of Cellulose Nanocrystal Particles from Natural Rubber Latex Composites into Immersed Aqueous Media. ACS Applied Bio Materials, 2021, 4, 1413-1423.	4.6	3
34	Coupling Microbial Electrolysis Cell and Activated Carbon Biofilter for Source-Separated Greywater Treatment. Processes, 2021, 9, 281.	2.8	4
35	Antifouling and Antibacterial Polymer-Coated Surfaces Based on the Combined Effect of Zwitterions and the Natural Borneol. ACS Applied Materials & Interfaces, 2021, 13, 9006-9014.	8.0	65
36	Impact of Total Suspended Solids on Struvite Precipitation from Source-Diverted Blackwater. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	3

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37	Dual Cross-Linked Hydrogels with Injectable, Self-Healing, and Antibacterial Properties Based on the Chemical and Physical Cross-Linking. Biomacromolecules, 2021, 22, 1685-1694.	5.4	35
38	Evaluation of influent microbial immigration to activated sludge is affected by different-sized community segregation. Npj Clean Water, 2021, 4, .	8.0	4
39	Lumen air pressure (LAP) affecting greywater treatment in an oxygen-based membrane biofilm reactor (O2-MBfR). Chemosphere, 2021, 270, 129541.	8.2	14
40	Effects of micro-aeration on microbial niches and antimicrobial resistances in blackwater anaerobic digesters. Water Research, 2021, 196, 117035.	11.3	39
41	Calcium phosphate granules formation: Key to high rate of mesophilic UASB treatment of toilet wastewater. Science of the Total Environment, 2021, 773, 144972.	8.0	21
42	Anaerobic co-digestion of Cannabis ruderalis straw and blackwater: Hydrothermal pretreatment assessment and mono/co-digestion analysis. Renewable Energy, 2021, 170, 1107-1113.	8.9	13
43	Performance assessment on anaerobic co-digestion of Cannabis ruderalis and blackwater: Ultrasonic pretreatment and kinetic analysis. Resources, Conservation and Recycling, 2021, 169, 105506.	10.8	19
44	Thermophilic co-digestion of blackwater and organic kitchen waste: Impacts of granular activated carbon and different mixing ratios. Waste Management, 2021, 131, 453-461.	7.4	7
45	Greywater biodegradability and biological treatment technologies: A critical review. International Biodeterioration and Biodegradation, 2021, 161, 105211.	3.9	40
46	Pushing the organic loading rate in electrochemically assisted anaerobic digestion of blackwater at ambient temperature: Insights into microbial community dynamics. Science of the Total Environment, 2021, 781, 146694.	8.0	15
47	Shaping biofilm microbiomes by changing GAC location during wastewater anaerobic digestion. Science of the Total Environment, 2021, 780, 146488.	8.0	18
48	Impact of feedwater protein contents on calcium phosphate mineralization in anaerobic digesters. Journal of Environmental Chemical Engineering, 2021, 9, 106445.	6.7	2
49	Extracellular electron transfer influences the transport and retention of ferrihydrite nanoparticles in quartz sand coated with Shewanella oneidensis biofilm. Journal of Hazardous Materials, 2021, 417, 126023.	12.4	3
50	A new non-steady-state mass balance model for quantifying microbiome responses to disturbances in wastewater bioreactors. Journal of Environmental Management, 2021, 296, 113370.	7.8	4
51	Assessing the risk from trace organic contaminants released via greywater irrigation to the aquatic environment. Water Research, 2021, 205, 117664.	11.3	13
52	Enhanced trichloroethylene biodegradation: Roles of biochar-microbial collaboration beyond adsorption. Science of the Total Environment, 2021, 792, 148451.	8.0	36
53	Cometabolism accelerated simultaneous ammoxidation and organics mineralization in an oxygen-based membrane biofilm reactor treating greywater under low dissolved oxygen conditions. Science of the Total Environment, 2021, 789, 147898.	8.0	13
54	Microbiologically induced calcite precipitation technology for mineralizing lead and cadmium in landfill leachate. Journal of Environmental Management, 2021, 296, 113199.	7.8	28

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55	Calcium hypochlorite enhances the digestibility of and the phosphorus recovery from waste activated sludge. Bioresource Technology, 2021, 340, 125658.	9.6	16
56	Anaerobically digested blackwater treatment by simultaneous denitrification and anammox processes: Feeding loading affects reactor performance and microbial community succession. Chemosphere, 2020, 241, 125101.	8.2	35
57	Treatment of fracturing wastewater using microalgaeâ€bacteria consortium. Canadian Journal of Chemical Engineering, 2020, 98, 484-490.	1.7	10
58	Effect and mechanism of quorum sensing on horizontal transfer of multidrug plasmid RP4 in BAC biofilm. Science of the Total Environment, 2020, 698, 134236.	8.0	51
59	Life cycle assessment of decentralized greywater treatment systems with reuse at different scales in cold regions. Environment International, 2020, 134, 105215.	10.0	59
60	Biomethane recovery from source-diverted household blackwater: Impacts from feed sulfate. Chemical Engineering Research and Design, 2020, 136, 28-38.	5.6	27
61	Greywater treatment using an oxygen-based membrane biofilm reactor: Formation of dynamic multifunctional biofilm for organics and nitrogen removal. Chemical Engineering Journal, 2020, 386, 123989.	12.7	48
62	RNA-based spatial community analysis revealed intra-reactor variation and expanded collection of direct interspecies electron transfer microorganisms in anaerobic digestion. Bioresource Technology, 2020, 298, 122534.	9.6	39
63	Effects of Electrokinetic Phenomena on Bacterial Deposition Monitored by Quartz Crystal Microbalance with Dissipation Monitoring. Environmental Science & Technology, 2020, 54, 14036-14045.	10.0	11
64	Blackwater biomethane recovery using a thermophilic upflow anaerobic sludge blanket reactor: Impacts of effluent recirculation on reactor performance. Journal of Environmental Management, 2020, 274, 111157.	7.8	16
65	Phosphorus recovery from source-diverted blackwater through struvite precipitation. Science of the Total Environment, 2020, 743, 140747.	8.0	46
66	Phosphorus recovery from synthetic biosolid digestion supernatant through lignin-induced struvite precipitation. Journal of Cleaner Production, 2020, 276, 124235.	9.3	9
67	Three-dimension oxygen gradient induced low energy input for grey water treatment in an oxygen-based membrane biofilm reactor. Environmental Research, 2020, 191, 110124.	7.5	17
68	Water reclamation and reuse. Water Environment Research, 2020, 92, 1701-1710.	2.7	2
69	Viability of a Single-Stage Unsaturated-Saturated Granular Activated Carbon Biofilter for Greywater Treatment. Sustainability, 2020, 12, 8847.	3.2	5
70	Development and investigation of novel antifouling cellulose acetate ultrafiltration membrane based on dopamine modification. International Journal of Biological Macromolecules, 2020, 160, 652-659.	7.5	30
71	Single reactor nitritation-denitritation for high strength digested biosolid thickening lagoon supernatant treatment. Biochemical Engineering Journal, 2020, 160, 107630.	3.6	10
72	Key syntrophic partnerships identified in a granular activated carbon amended UASB treating municipal sewage under low temperature conditions. Bioresource Technology, 2020, 312, 123556.	9.6	41

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73	Life Cycle Assessment of Community-Based Sewer Mining: Integrated Heat Recovery and Fit-For-Purpose Water Reuse. Environments - MDPI, 2020, 7, 36.	3.3	5
74	Granular activated carbon stimulated microbial physiological changes for enhanced anaerobic digestion of municipal sewage. Chemical Engineering Journal, 2020, 400, 125838.	12.7	44
75	Treatment of grey water (GW) with high linear alkylbenzene sulfonates (LAS) content and carbon/nitrogen (C/N) ratio in an oxygen-based membrane biofilm reactor (O2-MBfR). Chemosphere, 2020, 258, 127363.	8.2	25
76	Mesophiles outperform thermophiles in the anaerobic digestion of blackwater with kitchen residuals: Insights into process limitations. Waste Management, 2020, 105, 279-288.	7.4	20
77	Improvement of biofuel recovery from food waste by integration of anaerobic digestion, digestate pyrolysis and syngas biomethanation under mesophilic and thermophilic conditions. Journal of Cleaner Production, 2020, 256, 120594.	9.3	42
78	The importance of integrated fixed film activated sludge reactor and intermittent aeration in nitritation-anammox systems: Understanding reactor optimization for lagoon supernatant treatment. International Biodeterioration and Biodegradation, 2020, 149, 104938.	3.9	13
79	Different micro-aeration rates facilitate production of different end-products from source-diverted blackwater. Water Research, 2020, 177, 115783.	11.3	37
80	High-loading food waste and blackwater anaerobic co-digestion: Maximizing bioenergy recovery. Chemical Engineering Journal, 2020, 394, 124911.	12.7	55
81	Long-term continuous partial nitritation-anammox reactor aeration optimization at different nitrogen loading rates for the treatment of ammonium rich digestate lagoon supernatant. Process Biochemistry, 2020, 99, 139-146.	3.7	8
82	Co-digestion of blackwater with kitchen organic waste: Effects of mixing ratios and insights into microbial community. Journal of Cleaner Production, 2019, 236, 117703.	9.3	55
83	Anammox reactor optimization for the treatment of ammonium rich digestate lagoon supernatant - Step feeding mitigates nitrite inhibition. International Biodeterioration and Biodegradation, 2019, 143, 104733.	3.9	16
84	Enhancing biomethane recovery from source-diverted blackwater through hydrogenotrophic methanogenesis dominant pathway. Chemical Engineering Journal, 2019, 378, 122258.	12.7	46
85	Impact of the filamentous fungi overgrowth on the aerobic granular sludge process. Bioresource Technology Reports, 2019, 7, 100272.	2.7	10
86	Water reclamation and reuse. Water Environment Research, 2019, 91, 1080-1090.	2.7	6
87	Improving nitrogen removal in an IFAS nitritationâ€“anammox reactor treating lagoon supernatant by manipulating biocarrier filling ratio and hydraulic retention time. Biochemical Engineering Journal, 2019, 152, 107365.	3.6	5
88	Overcoming ammonia inhibition in anaerobic blackwater treatment with granular activated carbon: the role of electroactive microorganisms. Environmental Science: Water Research and Technology, 2019, 5, 383-396.	2.4	46
89	Prussian blue analogue derived magnetic Cu-Fe oxide as a recyclable photo-Fenton catalyst for the efficient removal of sulfamethazine at near neutral pH values. Chemical Engineering Journal, 2019, 362, 865-876.	12.7	181
90	Comparison of extracellular polymeric substance (EPS) in nitrification and nitritation bioreactors. International Biodeterioration and Biodegradation, 2019, 143, 104713.	3.9	46

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91	Impacts of biofilm on monochloramine decay in storm sewer systems: Direct reactions or AOB cometabolism. Biochemical Engineering Journal, 2019, 149, 107246.	3.6	0
92	Nutrient recovery from source-diverted blackwater: Optimization for enhanced phosphorus recovery and reduced co-precipitation. Journal of Cleaner Production, 2019, 235, 417-425.	9.3	17
93	Microbial community dynamics in anaerobic digesters treating conventional and vacuum toilet flushed blackwater. Water Research, 2019, 160, 249-258.	11.3	71
94	Anaerobic digestion of blackwater assisted by granular activated carbon: From digestion inhibition to methanogenesis enhancement. Chemosphere, 2019, 233, 462-471.	8.2	25
95	The value of floc and biofilm bacteria for anammox stability when treating ammonia-rich digester sludge thickening lagoon supernatant. Chemosphere, 2019, 233, 472-481.	8.2	36
96	Removal of Cryptosporidium surrogates in drinking water direct filtration. Colloids and Surfaces B: Biointerfaces, 2019, 181, 499-505.	5.0	4
97	Importance of controlling phosphate concentration in nitritationâ€“anammox reactor operation. Environmental Science: Water Research and Technology, 2019, 5, 1234-1243.	2.4	7
98	Treatment of formaldehyde wastewater by a membrane-aerated biofilm reactor (MABR): The degradation of formaldehyde in the presence of the cosubstrate methanol. Chemical Engineering Journal, 2019, 372, 673-683.	12.7	61
99	Impact of zero valent iron on blackwater anaerobic digestion. Bioresource Technology, 2019, 285, 121351.	9.6	49
100	Pretreatment for anaerobic blackwater treatment: ultrasonication and thermal hydrolysis. Journal of Environmental Engineering and Science, 2019, 14, 32-36.	0.8	7
101	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. Coordination Chemistry Reviews, 2019, 388, 63-78.	18.8	235
102	Comparative effects of GAC addition on methane productivity and microbial community in mesophilic and thermophilic anaerobic digestion of food waste. Biochemical Engineering Journal, 2019, 146, 79-87.	3.6	81
103	Promoting waste activated sludge reduction by linear alkylbenzene sulfonates: Surfactant dose control extracellular polymeric substances solubilization and microbial community succession. Journal of Hazardous Materials, 2019, 374, 74-82.	12.4	30
104	Evaluating Microbial and Chemical Hazards in Commercial Struvite Recovered from Wastewater. Environmental Science & Technology, 2019, 53, 5378-5386.	10.0	31
105	Adsorption and Co-precipitation of Metoprolol with Struvite Recovered from Synthetic Source Separated Black Wastewater. IOP Conference Series: Materials Science and Engineering, 2019, 611, 012053.	0.6	0
106	Redworm elimination in an integrated fixed-film activated sludge reactor. Journal of Environmental Engineering and Science, 2019, 14, 44-53.	0.8	2
107	Microbial population dynamics in a partial nitrification reactor treating high ammonia strength supernatant from anaerobically digested sludge: Role of the feed water characteristics. International Biodeterioration and Biodegradation, 2019, 137, 109-117.	3.9	18
108	Rapid Mussel-Inspired Surface Zwitteration for Enhanced Antifouling and Antibacterial Properties. Langmuir, 2019, 35, 1621-1630.	3.5	62

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109	Cocoamidopropyl Betaine Dosage Dependence of Short-Time Aerobic Digestion for Waste-Activated Sludge Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 877-884.	6.7	4
110	Enhancing blackwater methane production by enriching hydrogenotrophic methanogens through hydrogen supplementation. Bioresource Technology, 2019, 278, 481-485.	9.6	42
111	Functionalized polystyrene microspheres as Cryptosporidium surrogates. Colloids and Surfaces B: Biointerfaces, 2019, 175, 680-687.	5.0	8
112	Energy recovery from municipal wastewater: impacts of temperature and collection systems. Journal of Environmental Engineering and Science, 2019, 14, 24-31.	0.8	9
113	Influence of pyrolysis temperature on production of digested sludge biochar and its application for ammonium removal from municipal wastewater. Journal of Cleaner Production, 2019, 209, 927-936.	9.3	179
114	Performance of anaerobic treatment of blackwater collected from different toilet flushing systems: Can we achieve both energy recovery and water conservation?. Journal of Hazardous Materials, 2019, 365, 44-52.	12.4	95
115	Improving the energy efficiency of a pilot-scale UASB-digester for low temperature domestic wastewater treatment. Biochemical Engineering Journal, 2018, 135, 71-78.	3.6	30
116	Effect of Flow Rate Increase on the Performance of a Pilot-Scale Biological Nutrient Removal Reactor. Journal of Environmental Engineering, ASCE, 2018, 144, 04018022.	1.4	5
117	Bioreactors for oil sands process-affected water (OSPW) treatment: A critical review. Science of the Total Environment, 2018, 627, 916-933.	8.0	35
118	Probing molecular interaction mechanisms of organic fouling on polyamide membrane using a surface forces apparatus: Implication for wastewater treatment. Science of the Total Environment, 2018, 622-623, 644-654.	8.0	16
119	Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. Journal of Membrane Science, 2018, 549, 350-356.	8.2	135
120	Field data analysis of active chlorine-containing stormwater samples. Journal of Environmental Management, 2018, 206, 51-59.	7.8	15
121	The role of ozone pretreatment on optimization of membrane bioreactor for treatment of oil sands process-affected water. Journal of Hazardous Materials, 2018, 347, 470-477.	12.4	22
122	Monochloramine loss mechanisms and dissolved organic matter characterization in stormwater. Science of the Total Environment, 2018, 631-632, 745-754.	8.0	13
123	Isotherm and kinetic studies on adsorption of oil sands process-affected water organic compounds using granular activated carbon. Chemosphere, 2018, 202, 716-725.	8.2	53
124	Contradictory effects of silver nanoparticles on activated sludge wastewater treatment. Journal of Hazardous Materials, 2018, 341, 448-456.	12.4	38
125	Monochloramine dissipation in storm sewer systems: field testing and model development. Water Science and Technology, 2018, 78, 2279-2287.	2.5	3
126	Interactions of a paracyclophane-based conjugated oligoelectrolyte with biological membranes. RSC Advances, 2018, 8, 39849-39853.	3.6	9

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127	Impact of antimicrobial silver nanoparticles on anode respiring bacteria in a microbial electrolysis cell. Chemosphere, 2018, 213, 259-267.	8.2	23
128	Impacts of ammonium loading on nitritation stability and microbial community dynamics in the integrated fixed-film activated sludge sequencing batch reactor (IFAS-SBR). International Biodeterioration and Biodegradation, 2018, 133, 63-69.	3.9	29
129	Role of biochar in the granulation of anaerobic sludge and improvement of electron transfer characteristics. Bioresource Technology, 2018, 268, 28-35.	9.6	117
130	Potential impacts of silver nanoparticles on bacteria in the aquatic environment. Journal of Environmental Management, 2017, 191, 290-296.	7.8	65
131	Effect of multi-walled carbon nanotubes on linear viscoelastic behavior and microstructure of zwitterionic wormlike micelle at high temperature. Chemical Engineering Research and Design, 2017, 123, 14-22.	5.6	26
132	Optimization of moving bed biofilm reactors for oil sands process-affected water treatment: The effect of HRT and ammonia concentrations. Science of the Total Environment, 2017, 598, 690-696.	8.0	16
133	Dynamics of naphthenic acids and microbial community structures in a membrane bioreactor treating oil sands process-affected water: impacts of supplemented inorganic nitrogen and hydraulic retention time. RSC Advances, 2017, 7, 17670-17681.	3.6	15
134	Filtration of Glycoprotein-Modified Carboxylated Polystyrene Microspheres as Cryptosporidium Oocysts Surrogates: Effects of Flow Rate, Alum, and Humic Acid. Journal of Environmental Engineering, ASCE, 2017, 143, 04017032.	1.4	4
135	Transport of bacteria in porous media and its enhancement by surfactants for bioaugmentation: A review. Biotechnology Advances, 2017, 35, 490-504.	11.7	77
136	Characterization of microbial communities during start-up of integrated fixed-film activated sludge (IFAS) systems for the treatment of oil sands process-affected water (OSPW). Biochemical Engineering Journal, 2017, 122, 123-132.	3.6	29
137	Performance of flocs and biofilms in integrated fixed-film activated sludge (IFAS) systems for the treatment of oil sands process-affected water (OSPW). Chemical Engineering Journal, 2017, 314, 368-377.	12.7	27
138	Effect of lowâ€concentration rhamnolipid biosurfactant on <scp>P</scp>seudomonas aeruginosa transport in natural porous media. Water Resources Research, 2017, 53, 361-375.	4.2	25
139	Comparison of biomass from integrated fixed-film activated sludge (IFAS), moving bed biofilm reactor (MBBR) and membrane bioreactor (MBR) treating recalcitrant organics: Importance of attached biomass. Journal of Hazardous Materials, 2017, 326, 120-129.	12.4	58
140	Benefits to decomposition rates when using digestate as compost co-feedstock: Part II â€“ Focus on microbial community dynamics. Waste Management, 2017, 68, 85-95.	7.4	23
141	Wastewater ammonia removal using an integrated fixed-film activated sludge-sequencing batch biofilm reactor (IFAS-SBR): Comparison of suspended flocs and attached biofilm. International Biodeterioration and Biodegradation, 2017, 116, 38-47.	3.9	72
142	Monochloramine Loss Mechanisms in Tap Water. Water Environment Research, 2017, 89, 1999-2005.	2.7	11
143	Comparison of the transport and deposition of Pseudomonas aeruginosa under aerobic and anaerobic conditions. Water Resources Research, 2016, 52, 1127-1139.	4.2	5
144	Sulfate reducing bacterial community and in situ activity in mature fine tailings analyzed by real time qPCR and microsensor. Journal of Environmental Sciences, 2016, 44, 141-147.	6.1	5

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145	A two-step flocculation process on oil sands tailings treatment using oppositely charged polymer flocculants. Science of the Total Environment, 2016, 565, 369-375.	8.0	66
146	Application of forward osmosis membrane technology for oil sands process-affected water desalination. Water Science and Technology, 2016, 73, 1809-1816.	2.5	14
147	Self-Healing and Injectable Shear Thinning Hydrogels Based on Dynamic Oxaborole-Diol Covalent Cross-Linking. ACS Biomaterials Science and Engineering, 2016, 2, 2315-2323.	5.2	42
148	Treatment of oil sands process-affected water using membrane bioreactor coupled with ozonation: A comparative study. Chemical Engineering Journal, 2016, 302, 485-497.	12.7	36
149	Effects of ozone pretreatment and operating conditions on membrane fouling behaviors of an anoxic-aerobic membrane bioreactor for oil sands process-affected water (OSPW) treatment. Water Research, 2016, 105, 444-455.	11.3	57
150	Treatment of raw and ozonated oil sands process-affected water under decoupled denitrifying anoxic and nitrifying aerobic conditions: a comparative study. Biodegradation, 2016, 27, 247-264.	3.0	19
151	Microbiologically Induced Calcite Precipitation Mediated by Sporosarcina pasteurii. Journal of Visualized Experiments, 2016, , .	0.3	26
152	Optimization of ozonation combined with integrated fixed-film activated sludge (IFAS) in the treatment of oil sands process-affected water (OSPW). International Biodeterioration and Biodegradation, 2016, 112, 31-41.	3.9	15
153	Stability of full-scale engineered ecosystem under disturbance: Response of an activated sludge biological nutrient removal reactor to high flow rate condition. International Biodeterioration and Biodegradation, 2016, 109, 88-95.	3.9	6
154	Mechanistic investigation of industrial wastewater naphthenic acids removal using granular activated carbon (GAC) biofilm based processes. Science of the Total Environment, 2016, 541, 238-246.	8.0	30
155	Effect of low-concentration rhamnolipid on transport of Pseudomonas aeruginosa ATCC 9027 in an ideal porous medium with hydrophilic or hydrophobic surfaces. Colloids and Surfaces B: Biointerfaces, 2016, 139, 244-248.	5.0	26
156	Treatment of oil sands process-affected water (OSPW) using a membrane bioreactor with a submerged flat-sheet ceramic microfiltration membrane. Water Research, 2016, 88, 1-11.	11.3	57
157	Sulfide Production and Management in Municipal Stormwater Retention Ponds. Journal of Environmental Engineering, ASCE, 2016, 142, 04015071.	1.4	2
158	Bacterial floc mediated rapid streamer formation in creeping flows. Scientific Reports, 2015, 5, 13070.	3.3	35
159	The effects of silver nanoparticles on intact wastewater biofilms. Frontiers in Microbiology, 2015, 6, 680.	3.5	37
160	Treatment of oil sands process-affected water using moving bed biofilm reactors: With and without ozone pretreatment. Bioresource Technology, 2015, 192, 219-227.	9.6	56
161	Mature fine tailings consolidation through microbial induced calcium carbonate precipitation. Canadian Journal of Civil Engineering, 2015, 42, 975-978.	1.3	30
162	The impact of various ozone pretreatment doses on the performance of endogenous microbial communities for the remediation of oil sands process-affected water. International Biodeterioration and Biodegradation, 2015, 100, 17-28.	3.9	32

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163	Granular activated carbon for simultaneous adsorption and biodegradation of toxic oil sands process-affected water organic compounds. Journal of Environmental Management, 2015, 152, 49-57.	7.8	48
164	Study of Bacterial Adhesion on Biomimetic Temperature Responsive Glycopolymer Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 1652-1661.	8.0	41
165	Sulfate reducing bacteria and their activities in oil sands process-affected water biofilm. Science of the Total Environment, 2015, 536, 116-122.	8.0	13
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