Yang Liu

List of Publications by Year in descending order

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242	8,146	41258	79541
papers	citations	49 h-index	73 g-index

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

#	Article	IF	Citations
1	Development of nanosilver and multi-walled carbon nanotubes thin-film nanocomposite membrane for enhanced water treatment. Journal of Membrane Science, 2012, 394-395, 37-48.	4.1	341
2	Photocatalytic degradation of azo dyes by nitrogen-doped TiO2 nanocatalysts. Chemosphere, 2005, 61, 11-18.	4.2	250
3	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. Coordination Chemistry Reviews, 2019, 388, 63-78.	9.5	235
4	Effects of silver nanoparticles on wastewater biofilms. Water Research, 2011, 45, 6039-6050.	5.3	201
5	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.	6.6	181
6	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.	4.6	179
7	Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. Journal of Membrane Science, 2018, 549, 350-356.	4.1	135
8	Influence of Extracellular Polymeric Substances onPseudomonas aeruginosaTransport and Deposition Profiles in Porous Media. Environmental Science & Technology, 2007, 41, 198-205.	4.6	123
9	Bactericidal activity of nitrogen-doped metal oxide nanocatalysts and the influence of bacterial extracellular polymeric substances (EPS). Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 94-100.	2.0	123
10	Role of biochar in the granulation of anaerobic sludge and improvement of electron transfer characteristics. Bioresource Technology, 2018, 268, 28-35.	4.8	117
11	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.	6.5	95
12	Molecular interactions of mussel protective coating protein, mcfp-1, from Mytilus californianus. Biomaterials, 2012, 33, 1903-1911.	5.7	90
13	The impacts of ozonation on oil sands process-affected water biodegradability and biofilm formation characteristics in bioreactors. Bioresource Technology, 2013, 130, 269-277.	4.8	89
14	The effects of pretreatment on nanofiltration and reverse osmosis membrane filtration for desalination of oil sands process-affected water. Separation and Purification Technology, 2011, 81, 418-428.	3.9	88
15	Fabrication of porous polymeric nanocomposite membranes with enhanced anti-fouling properties: Effect of casting composition. Journal of Membrane Science, 2013, 444, 449-460.	4.1	82
16	Role of Pseudomonas aeruginosa Biofilm in the Initial Adhesion, Growth and Detachment of Escherichia coli in Porous Media. Environmental Science & Technology, 2008, 42, 443-449.	4.6	81
17	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.	1.8	81
18	The effects of biofilm on the transport of stabilized zerovalent iron nanoparticles in saturated porous media. Water Research, 2012, 46, 975-985.	5.3	80

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19	Transport of bacteria in porous media and its enhancement by surfactants for bioaugmentation: A review. Biotechnology Advances, 2017, 35, 490-504.	6.0	77
20	A web of streamers: biofilm formation in a porous microfluidic device. Lab on A Chip, 2012, 12, 5133.	3.1	76
21	Effects of silver nanoparticles on microbial community structure in activated sludge. Science of the Total Environment, 2013, 443, 828-835.	3.9	74
22	Novel TiO2 nanocatalysts for wastewater purification: tapping energy from the sun. Water Science and Technology, 2006, 54, 47-54.	1.2	73
23	State-of-the-art technologies for continuous high-rate biohydrogen production. Bioresource Technology, 2021, 320, 124304.	4.8	73
24	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.	1.9	72
25	Microbial community dynamics in anaerobic digesters treating conventional and vacuum toilet flushed blackwater. Water Research, 2019, 160, 249-258.	5.3	71
26	A two-step flocculation process on oil sands tailings treatment using oppositely charged polymer flocculants. Science of the Total Environment, 2016, 565, 369-375.	3.9	66
27	In situ biodegradation of naphthenic acids in oil sands tailings pond water using indigenous algaeâ€“bacteria consortium. Bioresource Technology, 2015, 187, 97-105.	4.8	65
28	Potential impacts of silver nanoparticles on bacteria in the aquatic environment. Journal of Environmental Management, 2017, 191, 290-296.	3.8	65
29	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.	4.0	65
30	Understanding the molecular interactions of lipopolysaccharides during E. coli initial adhesion with a surface forces apparatus. Soft Matter, 2011, 7, 9366.	1.2	62
31	Rapid Mussel-Inspired Surface Zwitteration for Enhanced Antifouling and Antibacterial Properties. Langmuir, 2019, 35, 1621-1630.	1.6	62
32	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.	6.6	61
33	Life cycle assessment of decentralized greywater treatment systems with reuse at different scales in cold regions. Environment International, 2020, 134, 105215.	4.8	59
34	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.	6.5	58
35	An in-situ integrated system of carbon nanotubes nanocomposite membrane for oil sands process-affected water treatment. Journal of Membrane Science, 2013, 429, 418-427.	4.1	57
36	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.	5.3	57

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37	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.	5.3	57
38	Evaluation of Membrane Fouling for In-Line Filtration of Oil Sands Process-Affected Water: The Effects of Pretreatment Conditions. Environmental Science & Technology, 2012, 46, 2877-2884.	4.6	56
39	Treatment of oil sands process-affected water using moving bed biofilm reactors: With and without ozone pretreatment. Bioresource Technology, 2015, 192, 219-227.	4.8	56
40	Co-digestion of blackwater with kitchen organic waste: Effects of mixing ratios and insights into microbial community. Journal of Cleaner Production, 2019, 236, 117703.	4.6	55
41	High-loading food waste and blackwater anaerobic co-digestion: Maximizing bioenergy recovery. Chemical Engineering Journal, 2020, 394, 124911.	6.6	55
42	Microbial community structure and operational performance of a fluidized bed biofilm reactor treating oil sands process-affected water. International Biodeterioration and Biodegradation, 2014, 91, 111-118.	1.9	54
43	Isotherm and kinetic studies on adsorption of oil sands process-affected water organic compounds using granular activated carbon. Chemosphere, 2018, 202, 716-725.	4.2	53
44	A novel planar flow cell for studies of biofilm heterogeneity and flowâ€“biofilm interactions. Biotechnology and Bioengineering, 2011, 108, 2571-2582.	1.7	52
45	Impact of conditioning films on the initial adhesion of Burkholderia cepacia. Colloids and Surfaces B: Biointerfaces, 2012, 91, 181-188.	2.5	52
46	Microbial co-occurrence network topological properties link with reactor parameters and reveal importance of low-abundance genera. Npj Biofilms and Microbiomes, 2022, 8, 3.	2.9	52
47	Impact of an extracellular polymeric substance (EPS) precoating on the initial adhesion ofBurkholderia cepaciaandPseudomonas aeruginosa. Biofouling, 2012, 28, 525-538.	0.8	51
48	Flocculation of bacteria by depletion interactions due to rod-shaped cellulose nanocrystals. Chemical Engineering Journal, 2012, 198-199, 476-481.	6.6	51
49	A simple graphical representation of selectivity in hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2012, 1260, 126-131.	1.8	51
50	Effect and mechanism of quorum sensing on horizontal transfer of multidrug plasmid RP4 in BAC biofilm. Science of the Total Environment, 2020, 698, 134236.	3.9	51
51	Study of Bacterial Adhesion on Different Glycopolymer Surfaces by Quartz Crystal Microbalance with Dissipation. Langmuir, 2014, 30, 7377-7387.	1.6	49
52	Impact of zero valent iron on blackwater anaerobic digestion. Bioresource Technology, 2019, 285, 121351.	4.8	49
53	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.	3.8	48
54	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.	6.6	48

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55	Adhesion and Retention of a Bacterial Phytopathogen Erwinia chrysanthemi in Biofilm-Coated Porous Media. Environmental Science & Technology, 2008, 42, 159-165.	4.6	46
56	Enhancing biomethane recovery from source-diverted blackwater through hydrogenotrophic methanogenesis dominant pathway. Chemical Engineering Journal, 2019, 378, 122258.	6.6	46
57	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.	1.2	46
58	Comparison of extracellular polymeric substance (EPS) in nitrification and nitritation bioreactors. International Biodeterioration and Biodegradation, 2019, 143, 104713.	1.9	46
59	Phosphorus recovery from source-diverted blackwater through struvite precipitation. Science of the Total Environment, 2020, 743, 140747.	3.9	46
60	Evolution of extracellular polymeric substances (EPS) in aerobic sludge granulation: Composition, adherence and viscoelastic properties. Chemosphere, 2021, 262, 128033.	4.2	46
61	Treatment of oil sands process-affected water (OSPW) using ozonation combined with integrated fixed-film activated sludge (IFAS). Water Research, 2015, 85, 167-176.	5.3	45
62	Granular activated carbon stimulated microbial physiological changes for enhanced anaerobic digestion of municipal sewage. Chemical Engineering Journal, 2020, 400, 125838.	6.6	44
63	Coupling bioelectricity generation and oil sands tailings treatment using microbial fuel cells. Bioresource Technology, 2013, 139, 349-354.	4.8	43
64	Self-Healing and Injectable Shear Thinning Hydrogels Based on Dynamic Oxaborole-Diol Covalent Cross-Linking. ACS Biomaterials Science and Engineering, 2016, 2, 2315-2323.	2.6	42
65	Enhancing blackwater methane production by enriching hydrogenotrophic methanogens through hydrogen supplementation. Bioresource Technology, 2019, 278, 481-485.	4.8	42
66	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.	4.6	42
67	Study of Bacterial Adhesion on Biomimetic Temperature Responsive Glycopolymer Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 1652-1661.	4.0	41
68	Key syntrophic partnerships identified in a granular activated carbon amended UASB treating municipal sewage under low temperature conditions. Bioresource Technology, 2020, 312, 123556.	4.8	41
69	The role of conditioning film formation in Pseudomonas aeruginosa PAO1 adhesion to inert surfaces in aquatic environments. Biochemical Engineering Journal, 2013, 76, 90-98.	1.8	40
70	Temperature-Responsive Hyperbranched Amine-Based Polymers for Solidâ€“Liquid Separation. Langmuir, 2014, 30, 2360-2368.	1.6	40
71	Greywater biodegradability and biological treatment technologies: A critical review. International Biodeterioration and Biodegradation, 2021, 161, 105211.	1.9	40
72	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.	4.8	39

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73	Effects of micro-aeration on microbial niches and antimicrobial resistances in blackwater anaerobic digesters. Water Research, 2021, 196, 117035.	5.3	39
74	Contradictory effects of silver nanoparticles on activated sludge wastewater treatment. Journal of Hazardous Materials, 2018, 341, 448-456.	6.5	38
75	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.	2.6	38
76	The effects of silver nanoparticles on intact wastewater biofilms. Frontiers in Microbiology, 2015, 6, 680.	1.5	37
77	Different micro-aeration rates facilitate production of different end-products from source-diverted blackwater. Water Research, 2020, 177, 115783.	5.3	37
78	Dopamine Assisted Self-Cleaning, Antifouling, and Antibacterial Coating via Dynamic Covalent Interactions. ACS Applied Materials & Interfaces, 2022, 14, 9557-9569.	4.0	37
79	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
80	Effect of reactor configuration and microbial characteristics on biofilm reactors for oil sands process-affected water treatment. International Biodeterioration and Biodegradation, 2014, 89, 74-81.	1.9	36
81	Treatment of oil sands process-affected water using membrane bioreactor coupled with ozonation: A comparative study. Chemical Engineering Journal, 2016, 302, 485-497.	6.6	36
82	The value of floc and biofilm bacteria for anammox stability when treating ammonia-rich digester sludge thickening lagoon supernatant. Chemosphere, 2019, 233, 472-481.	4.2	36
83	Enhanced trichloroethylene biodegradation: Roles of biochar-microbial collaboration beyond adsorption. Science of the Total Environment, 2021, 792, 148451.	3.9	36
84	Metal removal from oil sands tailings pond water by indigenous micro-alga. Chemosphere, 2012, 89, 350-354.	4.2	35
85	Bacterial floc mediated rapid streamer formation in creeping flows. Scientific Reports, 2015, 5, 13070.	1.6	35
86	Bioreactors for oil sands process-affected water (OSPW) treatment: A critical review. Science of the Total Environment, 2018, 627, 916-933.	3.9	35
87	Anaerobically digested blackwater treatment by simultaneous denitrification and anammox processes: Feeding loading affects reactor performance and microbial community succession. Chemosphere, 2020, 241, 125101.	4.2	35
88	Dual Cross-Linked Hydrogels with Injectable, Self-Healing, and Antibacterial Properties Based on the Chemical and Physical Cross-Linking. Biomacromolecules, 2021, 22, 1685-1694.	2.6	35
89	Next-Generation Pyrosequencing Analysis of Microbial Biofilm Communities on Granular Activated Carbon in Treatment of Oil Sands Process-Affected Water. Applied and Environmental Microbiology, 2015, 81, 4037-4048.	1.4	34
90	Vibrational absorption, vibrational circular dichroism, and theoretical studies of methyl lactate self-aggregation and methyl lactate-methanol intermolecular interactions. Journal of Chemical Physics, 2010, 132, 234513.	1.2	33

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91	Role of bacterial adhesion in the microbial ecology of biofilms in cooling tower systems. Biofouling, 2009, 25, 241-253.	0.8	32
92	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.	1.9	32
93	Evaluating Microbial and Chemical Hazards in Commercial Struvite Recovered from Wastewater. Environmental Science & Technology, 2019, 53, 5378-5386.	4.6	31
94	Mature fine tailings consolidation through microbial induced calcium carbonate precipitation. Canadian Journal of Civil Engineering, 2015, 42, 975-978.	0.7	30
95	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.	3.9	30
96	Improving the energy efficiency of a pilot-scale UASB-digester for low temperature domestic wastewater treatment. Biochemical Engineering Journal, 2018, 135, 71-78.	1.8	30
97	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.	6.5	30
98	Development and investigation of novel antifouling cellulose acetate ultrafiltration membrane based on dopamine modification. International Journal of Biological Macromolecules, 2020, 160, 652-659.	3.6	30
99	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.	6.6	30
100	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.	1.8	29
101	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.	1.9	29
102	Disinfection of bacterial biofilms in pilot-scale cooling tower systems. Biofouling, 2011, 27, 393-402.	0.8	28
103	Impacts of conductive materials on microbial community during syntrophic propionate oxidization for biomethane recovery. Water Environment Research, 2021, 93, 84-93.	1.3	28
104	Microbiologically induced calcite precipitation technology for mineralizing lead and cadmium in landfill leachate. Journal of Environmental Management, 2021, 296, 113199.	3.8	28
105	pH and glucose responsive nanofibers for the reversible capture and release of lectins. Biomaterials Science, 2015, 3, 152-162.	2.6	27
106	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.	6.6	27
107	Biomethane recovery from source-diverted household blackwater: Impacts from feed sulfate. Chemical Engineering Research and Design, 2020, 136, 28-38.	2.7	27
108	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.	6.6	27

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109	Mechanisms and kinetics of greywater treatment using biologically active granular activated carbon. Chemosphere, 2021, 263, 128113.	4.2	27
110	Impact of ozonation pre-treatment of oil sands process-affected water on the operational performance of a GAC-fluidized bed biofilm reactor. Biodegradation, 2014, 25, 811-823.	1.5	26
111	Microbiologically Induced Calcite Precipitation Mediated by Sporosarcina pasteurii. Journal of Visualized Experiments, 2016, , .	0.2	26
112	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.	2.5	26
113	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.	2.7	26
114	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.	4.8	26
115	Towards improving the efficiency of sequence-based SLAM. , 2013, , .		25
116	Power generation and oil sands process-affected water treatment in microbial fuel cells. Bioresource Technology, 2014, 169, 581-587.	4.8	25
117	Effect of lowâ€concentration rhamnolipid biosurfactant on <scp>P</scp>seudomonas aeruginosa transport in natural porous media. Water Resources Research, 2017, 53, 361-375.	1.7	25
118	Anaerobic digestion of blackwater assisted by granular activated carbon: From digestion inhibition to methanogenesis enhancement. Chemosphere, 2019, 233, 462-471.	4.2	25
119	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.	4.2	25
120	Self-fluidized GAC-amended UASB reactor for enhanced methane production. Chemical Engineering Journal, 2021, 420, 127652.	6.6	24
121	Simultaneous Phosphorus Recovery in Energy Generation Reactor (SPRING): High Rate Thermophilic Blackwater Treatment. Resources, Conservation and Recycling, 2021, 164, 105163.	5.3	24
122	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.	3.7	23
123	Impact of antimicrobial silver nanoparticles on anode respiring bacteria in a microbial electrolysis cell. Chemosphere, 2018, 213, 259-267.	4.2	23
124	A washoff model for stormwater pollutants. Science of the Total Environment, 2008, 402, 248-256.	3.9	22
125	Electrokinetic Control of Bacterial Deposition and Transport. Environmental Science & Technology, 2015, 49, 5663-5671.	4.6	22
126	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.	6.5	22

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127	Biodegradation of oil sands process affected water in sequencing batch reactors and microbial community analysis by high-throughput pyrosequencing. International Biodeterioration and Biodegradation, 2014, 92, 79-85.	1.9	21
128	Calcium phosphate granules formation: Key to high rate of mesophilic UASB treatment of toilet wastewater. Science of the Total Environment, 2021, 773, 144972.	3.9	21
129	Determination of the absolute configurations of bicyclo[3.1.0]hexane derivatives via electronic circular dichroism, optical rotation dispersion and vibrational circular dichroism spectroscopy and density functional theory calculations. Organic and Biomolecular Chemistry, 2010, 8, 3777.	1.5	20
130	Treatment of oil sands process-affected water by submerged ceramic membrane microfiltration system. Separation and Purification Technology, 2014, 138, 198-209.	3.9	20
131	Mesophiles outperform thermophiles in the anaerobic digestion of blackwater with kitchen residuals: Insights into process limitations. Waste Management, 2020, 105, 279-288.	3.7	20
132	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.	1.5	19
133	Performance assessment on anaerobic co-digestion of Cannabis ruderalis and blackwater: Ultrasonic pretreatment and kinetic analysis. Resources, Conservation and Recycling, 2021, 169, 105506.	5.3	19
134	Agricultural Wastes. Water Environment Research, 2012, 84, 1386-1406.	1.3	18
135	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.	1.9	18
136	Shaping biofilm microbiomes by changing GAC location during wastewater anaerobic digestion. Science of the Total Environment, 2021, 780, 146488.	3.9	18
137	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
138	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.	6.5	18
139	Nutrient recovery from source-diverted blackwater: Optimization for enhanced phosphorus recovery and reduced co-precipitation. Journal of Cleaner Production, 2019, 235, 417-425.	4.6	17
140	Three-dimension oxygen gradient induced low energy input for grey water treatment in an oxygen-based membrane biofilm reactor. Environmental Research, 2020, 191, 110124.	3.7	17
141	Impacts of granular activated carbon addition on anaerobic granulation in blackwater treatment. Environmental Research, 2022, 206, 112406.	3.7	17
142	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
143	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.	3.9	16
144	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.	3.9	16

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145	Anammox reactor optimization for the treatment of ammonium rich digestate lagoon supernatant - Step feeding mitigates nitrite inhibition. International Biodeterioration and Biodegradation, 2019, 143, 104733.	1.9	16
146	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.	3.8	16
147	Calcium hypochlorite enhances the digestibility of and the phosphorus recovery from waste activated sludge. Bioresource Technology, 2021, 340, 125658.	4.8	16
148	The impact of cellulose nanocrystals on the aggregation and initial adhesion of Pseudomonas fluorescens bacteria. Soft Matter, 2014, 10, 8923-8931.	1.2	15
149	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.	1.9	15
150	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.	1.7	15
151	Field data analysis of active chlorine-containing stormwater samples. Journal of Environmental Management, 2018, 206, 51-59.	3.8	15
152	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.	3.9	15
153	Application of forward osmosis membrane technology for oil sands process-affected water desalination. Water Science and Technology, 2016, 73, 1809-1816.	1.2	14
154	Role of syntrophic acetate oxidation and hydrogenotrophic methanogenesis in co-digestion of blackwater with food waste. Journal of Cleaner Production, 2021, 283, 125393.	4.6	14
155	Lumen air pressure (LAP) affecting greywater treatment in an oxygen-based membrane biofilm reactor (O2-MBfR). Chemosphere, 2021, 270, 129541.	4.2	14
156	Partitioning and bioaccumulation of metals from oil sands process affected water in indigenous Parachlorella kessleri. Chemosphere, 2013, 90, 1893-1899.	4.2	13
157	Desalination of oil sands process-affected water and basal depressurization water in Fort McMurray, Alberta, Canada: application of electrodialysis. Water Science and Technology, 2013, 68, 2668-2675.	1.2	13
158	Sulfate reducing bacteria and their activities in oil sands process-affected water biofilm. Science of the Total Environment, 2015, 536, 116-122.	3.9	13
159	Monochloramine loss mechanisms and dissolved organic matter characterization in stormwater. Science of the Total Environment, 2018, 631-632, 745-754.	3.9	13
160	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.	1.9	13
161	Anaerobic co-digestion of Cannabis ruderalis straw and blackwater: Hydrothermal pretreatment assessment and mono/co-digestion analysis. Renewable Energy, 2021, 170, 1107-1113.	4.3	13
162	Assessing the risk from trace organic contaminants released via greywater irrigation to the aquatic environment. Water Research, 2021, 205, 117664.	5.3	13

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163	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.	3.9	13
164	Hyperbranched Polyesters Based on Indole- and Lignin-Derived Monomeric Aromatic Aldehydes as Effective Nonionic Antimicrobial Coatings with Excellent Biocompatibility. Biomacromolecules, 2022, 23, 150-162.	2.6	13
165	Health Effects Associated with Wastewater Treatment, Reuse, and Disposal. Water Environment Research, 2009, 81, 2126-2146.	1.3	12
166	Monochloramine Loss Mechanisms in Tap Water. Water Environment Research, 2017, 89, 1999-2005.	1.3	11
167	Effects of Electrokinetic Phenomena on Bacterial Deposition Monitored by Quartz Crystal Microbalance with Dissipation Monitoring. Environmental Science & Technology, 2020, 54, 14036-14045.	4.6	11
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