Mohamed Gamal El-Din

List of Publications by Year
in descending order

207	8,894	31902	60497
papers	citations	53 h-index	81 g-index

208	208	208	6533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Degradation of Aqueous Pharmaceuticals by Ozonation and Advanced Oxidation Processes: A Review. Ozone: Science and Engineering, 2006, 28, 353-414.	1.4	770
2	High efficiency removal of heavy metals using tire-derived activated carbon vs commercial activated carbon: Insights into the adsorption mechanisms. Chemosphere, 2021, 264, 128455.	4.2	220
3	Biochar properties and lead(II) adsorption capacity depend on feedstock type, pyrolysis temperature, and steam activation. Chemosphere, 2019, 231, 393-404.	4.2	195
4	Ozonation and Advanced Oxidation Treatment of Emerging Organic Pollutants in Water and Wastewater. Ozone: Science and Engineering, 2008, 30, 21-26.	1.4	190
5	Aqueous Pesticide Degradation by Ozonation and Ozone-Based Advanced Oxidation Processes: A Review (Part I). Ozone: Science and Engineering, 2005, 27, 83-114.	1.4	160
6	Naphthenic acids speciation and removal during petroleum-coke adsorption and ozonation of oil sands process-affected water. Science of the Total Environment, 2011, 409, 5119-5125.	3.9	143
7	Biochar surface complexation and Ni(II), Cu(II), and Cd(II) adsorption in aqueous solutions depend on feedstock type. Science of the Total Environment, 2020, 712, 136538.	3.9	137
8	The toxicity of oil sands process-affected water (OSPW): A critical review. Science of the Total Environment, 2017, 601-602, 1785-1802.	3.9	134
9	Ozonation of Oil Sands Process-Affected Water Accelerates Microbial Bioremediation. Environmental Science & Technology, 2010, 44, 8350-8356.	4.6	129
10	Toxicity of untreated and ozone-treated oil sands process-affected water (OSPW) to early life stages of the fathead minnow (Pimephales promelas). Water Research, 2012, 46, 6359-6368.	5.3	128
11	Aqueous Pesticide Degradation by Ozonation and Ozone-Based Advanced Oxidation Processes: A Review (Part II). Ozone: Science and Engineering, 2005, 27, 173-202.	1.4	124
12	Transmission of SARS-CoV-2 via fecal-oral and aerosolsâ€“borne routes: Environmental dynamics and implications for wastewater management in underprivileged societies. Science of the Total Environment, 2020, 743, 140709.	3.9	124
13	Advanced oxidation processes for the degradation of dissolved organics in produced water: A review of process performance, degradation kinetics and pathway. Chemical Engineering Journal, 2022, 429, 132492.	6.6	122
14	Impact of Peroxydisulfate in the Presence of Zero Valent Iron on the Oxidation of Cyclohexanoic Acid and Naphthenic Acids from Oil Sands Process-Affected Water. Environmental Science & Technology, 2012, 46, 8984-8991.	4.6	114
15	Impact of Ozonation on Naphthenic Acids Speciation and Toxicity of Oil Sands Process-Affected Water to Vibrio fischeri and Mammalian Immune System. Environmental Science & Technology, 2013, 47, 6518-6526.	4.6	111
16	A solar-driven UV/Chlorine advanced oxidation process. Water Research, 2012, 46, 5672-5682.	5.3	108
17	The Impact of Metallic Coagulants on the Removal of Organic Compounds from Oil Sands Process-Affected Water. Environmental Science & Technology, 2011, 45, 8452-8459.	4.6	103
18	Perspectives on environmental impacts and a land reclamation strategy for solar and wind energy systems. Science of the Total Environment, 2020, 718, 134602.	3.9	101

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19	Petroleum coke adsorption as a water management option for oil sands process-affected water. Science of the Total Environment, 2012, 427-428, 364-372.	3.9	99
20	Application of a Solar UV/Chlorine Advanced Oxidation Process to Oil Sands Process-Affected Water Remediation. Environmental Science & Technology, 2014, 48, 9692-9701.	4.6	98
21	Adsorption of metals from oil sands process water (OSPW) under natural pH by sludge-based Biochar/Chitosan composite. Water Research, 2021, 194, 116930.	5.3	97
22	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
23	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
24	Degradation of Endocrine Disrupting Chemicals by Ozone/AOPs. Ozone: Science and Engineering, 2007, 29, 153-176.	1.4	87
25	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
26	Structureâ€“Reactivity of Naphthenic Acids in the Ozonation Process. Environmental Science & Technology, 2011, 45, 7431-7437.	4.6	80
27	Insight into in-situ radical and non-radical oxidative degradation of organic compounds in complex real matrix during electrooxidation with boron doped diamond electrode: A case study of oil sands process water treatment. Applied Catalysis B: Environmental, 2020, 279, 119366.	10.8	79
28	Heterotrophic nitrification and aerobic denitrification process: Promising but a long way to go in the wastewater treatment. Science of the Total Environment, 2022, 805, 150212.	3.9	78
29	Effect of Ozonation on the Estrogenicity and Androgenicity of Oil Sands Process-Affected Water. Environmental Science & Technology, 2011, 45, 6268-6274.	4.6	77
30	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. Environmental Pollution, 2021, 281, 117094.	3.7	76
31	Kinetics and mechanism of the degradation of two pesticides in aqueous solutions by ozonation. Chemosphere, 2010, 78, 557-562.	4.2	74
32	Ozonation attenuates the steroidogenic disruptive effects of sediment free oil sands process water in the H295R cell line. Chemosphere, 2010, 80, 578-584.	4.2	74
33	Oxidation kinetics of two pesticides in natural waters by ozonation and ozone combined with hydrogen peroxide. Water Research, 2011, 45, 2517-2526.	5.3	73
34	Comparison of UV/hydrogen peroxide, potassium ferrate(VI), and ozone in oxidizing the organic fraction of oil sands process-affected water (OSPW). Water Research, 2016, 100, 476-485.	5.3	71
35	Isolated cellulose nanofibers for Cu (II) and Zn (II) removal: performance and mechanisms. Carbohydrate Polymers, 2019, 221, 231-241.	5.1	69
36	Transcriptional Responses of the Brainâ€“Gonadâ€“Liver Axis of Fathead Minnows Exposed to Untreated and Ozone-Treated Oil Sands Process-Affected Water. Environmental Science & Technology, 2012, 46, 9701-9708.	4.6	68

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37	Effects of exposure to oil sands process-affected water from experimental reclamation ponds on Chironomus dilutus. Water Research, 2012, 46, 1662-1672.	5.3	66
38	Membrane concentrate management options: a comprehensive critical reviewA paper submitted to the Journal of Environmental Engineering and Science.. Canadian Journal of Civil Engineering, 2009, 36, 1107-1119.	0.7	65
39	Effect of Molecular Structure on the Relative Reactivity of Naphthenic Acids in the UV/H₂O₂ Advanced Oxidation Process. Environmental Science & Technology, 2012, 46, 10727-10734.	4.6	62
40	Treatment of oil sands process-affected water with ceramic ultrafiltration membrane: Effects of operating conditions on membrane performance. Separation and Purification Technology, 2014, 122, 170-182.	3.9	61
41	Kinetics study on the degradation of a model naphthenic acid by ethylenediamine-N,Nâ€™-disuccinic acid-modified Fenton process. Journal of Hazardous Materials, 2016, 318, 371-378.	6.5	61
42	Comparison of classical fenton, nitrilotriacetic acid (NTA)-Fenton, UV-Fenton, UV photolysis of Fe-NTA, UV-NTA-Fenton, and UV-H2O2 for the degradation of cyclohexanoic acid. Chemosphere, 2017, 175, 178-185.	4.2	61
43	Coagulation/flocculation process with polyaluminum chloride for the remediation of oil sands process-affected water: Performance and mechanism study. Journal of Environmental Management, 2015, 160, 254-262.	3.8	59
44	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
45	Ozone treatment ameliorates oil sands process water toxicity to the mammalian immune system. Water Research, 2011, 45, 5849-5857.	5.3	57
46	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
47	Degradation of a model naphthenic acid by nitrilotriacetic acid â€“ modified Fenton process. Chemical Engineering Journal, 2016, 292, 340-347.	6.6	57
48	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
49	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
50	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
51	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
52	Advanced Analytical Mass Spectrometric Techniques and Bioassays to Characterize Untreated and Ozonated Oil Sands Process-Affected Water. Environmental Science & Technology, 2014, 48, 11090-11099.	4.6	55
53	Comparison of Nitrilotriacetic Acid and [S,S]-Ethylenediamine-N,Nâ€²-disuccinic Acid in UVâ€“Fenton for the Treatment of Oil Sands Process-Affected Water at Natural pH. Environmental Science & Technology, 2016, 50, 10535-10544.	4.6	55
54	Investigation of the impact of organic solvent type and solution pH on the extraction efficiency of naphthenic acids from oil sands process-affected water. Chemosphere, 2016, 146, 472-477.	4.2	55

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55	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
56	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
57	The acute and sub-chronic exposures of goldfish to naphthenic acids induce different host defense responses. Aquatic Toxicology, 2012, 109, 143-149.	1.9	52
58	Impact of conditioning films on the initial adhesion of Burkholderia cepacia. Colloids and Surfaces B: Biointerfaces, 2012, 91, 181-188.	2.5	52
59	Characterization and determination of naphthenic acids species in oil sands process-affected water and groundwater from oil sands development area of Alberta, Canada. Water Research, 2018, 128, 129-137.	5.3	52
60	Decomposition of cyclohexanoic acid by the UV/H2O2 process under various conditions. Science of the Total Environment, 2012, 426, 387-392.	3.9	50
61	Degradation of naphthenic acid model compounds in aqueous solution by UV activated persulfate: Influencing factors, kinetics and reaction mechanisms. Chemosphere, 2018, 211, 271-277.	4.2	50
62	Degradation of a Model Naphthenic Acid, Cyclohexanoic Acid, by Vacuum UV (172 nm) and UV (254) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	49
63	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
64	Effect of ozonation on the naphthenic acids' speciation and toxicity of pH-dependent organic extracts of oil sands process-affected water. Science of the Total Environment, 2015, 506-507, 66-75.	3.9	47
65	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
66	Ozonation degrades all detectable organic compound classes in oil sands processâ€affected water; an application of highâ€performance liquid chromatography/obitrap mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2317-2326.	0.7	44
67	Fractionation of oil sands-process affected water using pH-dependent extractions: A study of dissociation constants for naphthenic acids species. Chemosphere, 2015, 127, 291-296.	4.2	44
68	Comparison of methods for determination of total oil sands-derived naphthenic acids in water samples. Chemosphere, 2017, 187, 376-384.	4.2	44
69	Pristine and engineered biochar for the removal of contaminants co-existing in several types of industrial wastewaters: A critical review. Science of the Total Environment, 2022, 809, 151120.	3.9	44
70	Bifunctional Fe for Induced Graphitization and Catalytic Ozonation Based on a Fe/N-Doped Carbonâ€“Al₂O₃ Framework: Theoretical Calculations Guided Catalyst Design and Optimization. Environmental Science & Technology, 2021, 55, 11236-11244.	4.6	41
71	Effects of Ozone and Ozone/Hydrogen Peroxide on the Degradation of Model and Real Oil-Sands-Process-Affected-Water Naphthenic Acids. Ozone: Science and Engineering, 2015, 37, 45-54.	1.4	40
72	Degradation kinetics and structure-reactivity relation of naphthenic acids during anodic oxidation on graphite electrodes. Chemical Engineering Journal, 2019, 370, 997-1007.	6.6	40

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73	Comparison of UV/Persulfate and UV/H2O2 for the removal of naphthenic acids and acute toxicity towards Vibrio fischeri from petroleum production process water. Science of the Total Environment, 2019, 694, 133686.	3.9	38
74	The Analysis of Goldfish (Carassius auratus L.) Innate Immune Responses After Acute and Subchronic Exposures to Oil Sands Process-Affected Water. Toxicological Sciences, 2014, 138, 59-68.	1.4	37
75	Advanced treatment of liquid swine manure using physico-chemical treatment. Journal of Hazardous Materials, 2011, 186, 1632-1638.	6.5	36
76	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
77	Pilot-scale UV/H2O2 advanced oxidation process for municipal reuse water: Assessing micropollutant degradation and estrogenic impacts on goldfish (Carassius auratus L.). Water Research, 2016, 101, 157-166.	5.3	36
78	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
79	Oxidation of resin and fatty acids by ozone: Kinetics and toxicity study. Water Research, 2006, 40, 392-400.	5.3	35
80	Bioreactors for oil sands process-affected water (OSPW) treatment: A critical review. Science of the Total Environment, 2018, 627, 916-933.	3.9	35
81	Photodegradation of naphthenic acids induced by natural photosensitizer in oil sands process water. Water Research, 2019, 164, 114913.	5.3	35
82	Adsorption of metals in oil sands process water by a biochar/iron oxide composite: Influence of the composite structure and surface functional groups. Chemical Engineering Journal, 2021, 421, 129937.	6.6	35
83	Removal of organic compounds and trace metals from oil sands process-affected water using zero valent iron enhanced by petroleum coke. Journal of Environmental Management, 2014, 139, 50-58.	3.8	34
84	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
85	Oxidation of Oil Sands Process-Affected Water by Potassium Ferrate(VI). Environmental Science & Technology, 2016, 50, 4238-4247.	4.6	34
86	Adsorption of organic matter in oil sands process water (OSPW) by carbon xerogel. Water Research, 2019, 154, 402-411.	5.3	33
87	High-rate nitrogen removal from carbon limited wastewater using sulfur-based constructed wetland: Impact of sulfur sources. Science of the Total Environment, 2020, 744, 140969.	3.9	33
88	Geothermal energy resources: potential environmental impact and land reclamation. Environmental Reviews, 2020, 28, 415-427.	2.1	33
89	Recent advances and future perspective on nanocellulose-based materials in diverse water treatment applications. Science of the Total Environment, 2022, 843, 156903.	3.9	33
90	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

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91	Pilot-scale study on the treatment of basal aquifer water using ultrafiltration, reverse osmosis and evaporation/crystallization to achieve zero-liquid discharge. Journal of Environmental Management, 2016, 165, 213-223.	3.8	32
92	Degradation of organics in real oil sands process water by electro-oxidation using graphite and dimensionally stable anodes. Chemical Engineering Journal, 2020, 389, 124406.	6.6	32
93	Artificial Neural Networks Modeling of Ozone Bubble Columns: Mass Transfer Coefficient, Gas Hold-Up, and Bubble Size. Ozone: Science and Engineering, 2007, 29, 343-352.	1.4	31
94	Commercial naphthenic acids and the organic fraction of oil sands process water induce different effects on proâ€inflammatory gene expression and macrophage phagocytosis in mice. Journal of Applied Toxicology, 2012, 32, 968-979.	1.4	31
95	Fate and abundance of classical and heteroatomic naphthenic acid species after advanced oxidation processes: Insights and indicators of transformation and degradation. Water Research, 2017, 125, 62-71.	5.3	31
96	Combined solar activated sulfate radical-based advanced oxidation processes (SR-AOPs) and biofiltration for the remediation of dissolved organics in oil sands produced water. Chemical Engineering Journal, 2022, 433, 134579.	6.6	31
97	Ultra Performance Liquid Chromatography Ion Mobility Time-of-Flight Mass Spectrometry Characterization of Naphthenic Acids Species from Oil Sands Process-Affected Water. Environmental Science & Technology, 2015, 49, 11737-11745.	4.6	30
98	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
99	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
100	Electro-oxidation by graphite anode for naphthenic acids degradation, biodegradability enhancement and toxicity reduction. Science of the Total Environment, 2019, 671, 270-279.	3.9	29
101	Comprehensive chemical analysis and characterization of heavy oil electric desalting wastewaters in petroleum refineries. Science of the Total Environment, 2020, 724, 138117.	3.9	29
102	Silver-Ion Solid Phase Extraction Separation of Classical, Aromatic, Oxidized, and Heteroatomic Naphthenic Acids from Oil Sands Process-Affected Water. Environmental Science & Technology, 2016, 50, 6433-6441.	4.6	28
103	Application of UV-irradiated Fe(III)-nitrilotriacetic acid (UV-Fe(III)NTA) and UV-NTA-Fenton systems to degrade model and natural occurring naphthenic acids. Chemosphere, 2017, 179, 359-366.	4.2	28
104	Understanding the similarities and differences between ozone and peroxone in the degradation of naphthenic acids: Comparative performance for potential treatment. Chemosphere, 2017, 180, 149-159.	4.2	27
105	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
106	Molecular transformation of dissolved organic matter in process water from oil and gas operation during UV/H2O2, UV/chlorine, and UV/persulfate processes. Science of the Total Environment, 2020, 730, 139072.	3.9	27
107	A burning issue: The effect of organic ultraviolet filter exposure on the behaviour and physiology of Daphnia magna. Science of the Total Environment, 2021, 750, 141707.	3.9	27
108	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

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109	Characterization and distribution of metal and nonmetal elements in the Alberta oil sands region of Canada. Chemosphere, 2016, 147, 218-229.	4.2	25
110	Maximizing the Enhanced Ozone Oxidation of Kraft Pulp Mill Effluents in an Impinging-Jet Bubble Column. Ozone: Science and Engineering, 2001, 23, 479-493.	1.4	24
111	Application of Engineered Si Nanoparticles in Light-Induced Advanced Oxidation Remediation of a Water-Borne Model Contaminant. ACS Nano, 2016, 10, 5405-5412.	7.3	24
112	Biochar/iron oxide composite as an efficient peroxymonosulfate catalyst for the degradation of model naphthenic acids compounds. Chemical Engineering Journal, 2022, 429, 132220.	6.6	24
113	Prediction of naphthenic acid species degradation by kinetic and surrogate models during the ozonation of oil sands process-affected water. Science of the Total Environment, 2014, 493, 282-290.	3.9	23
114	Degradation of recalcitrant naphthenic acids from raw and ozonated oil sands process-affected waters by a semi-passive biofiltration process. Water Research, 2018, 133, 310-318.	5.3	23
115	UV and hydrogen peroxide treatment restores changes in innate immunity caused by exposure ofÂfish to reuse water. Water Research, 2015, 71, 257-273.	5.3	22
116	Dynamics of microbial community structure and nutrient removal from an innovative side-stream enhanced biological phosphorus removal process. Journal of Environmental Management, 2017, 198, 300-307.	3.8	22
117	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
118	Monitoring of classical, oxidized, and heteroatomic naphthenic acids species in oil sands process water and groundwater from the active oil sands operation area. Science of the Total Environment, 2018, 645, 277-285.	3.9	22
119	Separation of oil sands process water organics and inorganics and examination of their acute toxicity using standard in-vitro bioassays. Science of the Total Environment, 2019, 695, 133532.	3.9	22
120	Aerobic sludge granulation in shale gas flowback water treatment: Assessment of the bacterial community dynamics and modeling of bioreactor performance using artificial neural network. Bioresource Technology, 2020, 313, 123687.	4.8	22
121	Removal of per- and poly-fluoroalkyl substances (PFASs) by wetlands: Prospects on plants, microbes and the interplay. Science of the Total Environment, 2021, 800, 149570.	3.9	22
122	Decomplexation of Cu(II)-EDTA by synergistic activation of persulfate with alkali and CuO: Kinetics and activation mechanism. Science of the Total Environment, 2022, 817, 152793.	3.9	22
123	Treatment of oil sands process-affected water by submerged ceramic membrane microfiltration system. Separation and Purification Technology, 2014, 138, 198-209.	3.9	20
124	Positive and negative electrospray ionization analyses of the organic fractions in raw and oxidized oil sands process-affected water. Chemosphere, 2016, 165, 239-247.	4.2	20
125	Forward osmosis as an approach to manage oil sands tailings water and on-site basal depressurization water. Journal of Hazardous Materials, 2017, 327, 18-27.	6.5	20
126	Effects of different pretreatments on the performance of ceramic ultrafiltration membrane during the treatment of oil sands tailings pond recycle water: A pilot-scale study. Journal of Environmental Management, 2015, 151, 540-549.	3.8	19

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127	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
128	Integrated mild ozonation with biofiltration can effectively enhance the removal of naphthenic acids from hydrocarbon-contaminated water. Science of the Total Environment, 2019, 678, 197-206.	3.9	19
129	Degradation of cyclohexanecarboxylic acid as a model naphthenic acid by the UV/chlorine process: Kinetics and by-products identification. Journal of Hazardous Materials, 2021, 402, 123476.	6.5	19
130	Indigenous microbes survive in situ ozonation improving biodegradation of dissolved organic matter in aged oil sands process-affected waters. Chemosphere, 2013, 93, 2748-2755.	4.2	18
131	Comparison of the Acute Immunotoxicity of Nonfractionated and Fractionated Oil Sands Process-Affected Water Using Mammalian Macrophages. Environmental Science & Technology, 2017, 51, 8624-8634.	4.6	18
132	The effect of carboxyl multiwalled carbon nanotubes content on the structure and performance of polysulfone membranes for oil sands process-affected water treatment. Separation and Purification Technology, 2018, 199, 170-181.	3.9	18
133	Biofiltration of oil sands process water in fixed-bed biofilm reactors shapes microbial community structure for enhanced degradation of naphthenic acids. Science of the Total Environment, 2020, 718, 137028.	3.9	18
134	Treatment of printing and dyeing wastewater in biological contact oxidation reactors comprising basalt fibers and combination fillers as bio-carriers: Elucidation of bacterial communities and underlying mechanisms. Science of the Total Environment, 2021, 785, 147272.	3.9	18
135	Low-current electro-oxidation enhanced the biodegradation of the recalcitrant naphthenic acids in oil sands process water. Journal of Hazardous Materials, 2020, 398, 122807.	6.5	18
136	Effects of anaerobic granular sludge towards the treatment of flowback water in an up-flow anaerobic sludge blanket bioreactor: Comparison between mesophilic and thermophilic conditions. Bioresource Technology, 2021, 326, 124784.	4.8	17
137	Advancing the treatment of primary influent and effluent wastewater during wet weather flow by single versus powdered activated carbon-catalyzed ozonation for the removal of trace organic compounds. Science of the Total Environment, 2021, 770, 144679.	3.9	17
138	Spent fluid catalytic cracking (FCC) catalyst enhances pyrolysis of refinery waste activated sludge. Journal of Cleaner Production, 2021, 295, 126382.	4.6	17
139	Treatment of a mixture of pharmaceuticals, herbicides and perfluorinated compounds by powdered activated carbon and ozone: Synergy, catalysis and insights into non-free OH contingent mechanisms. Science of the Total Environment, 2021, 777, 146138.	3.9	17
140	The treatment of electroplating wastewater using an integrated approach of interior microelectrolysis and Fenton combined with recycle ferrite. Chemosphere, 2022, 286, 131543.	4.2	17
141	Kinetics of Estrone Ozone/Hydrogen Peroxide Advanced Oxidation Treatment. Ozone: Science and Engineering, 2008, 30, 249-255.	1.4	16
142	Ozone inactivation of infectious prions in rendering plant and municipal wastewaters. Science of the Total Environment, 2014, 470-471, 717-725.	3.9	16
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	A critical review on the detection, occurrence, fate, toxicity, and removal of cannabinoids in the water system and the environment. Environmental Pollution, 2021, 268, 115642.	3.7	16

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145	Influences of coagulation pretreatment on the characteristics of crude oil electric desalting wastewaters. Chemosphere, 2021, 264, 128531.	4.2	16
146	Solar photocatalytic treatment of model and real oil sands process water naphthenic acids by bismuth tungstate: Effect of catalyst morphology and cations on the degradation kinetics and pathways. Journal of Hazardous Materials, 2021, 413, 125396.	6.5	16
147	Solar-activated zinc oxide photocatalytic treatment of real oil sands process water: Effect of treatment parameters on naphthenic acids, polyaromatic hydrocarbons and acute toxicity removal. Science of the Total Environment, 2022, 819, 153029.	3.9	16
148	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
149	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
150	A comparative study of microbial dynamics and phosphorus removal for a two side-stream wastewater treatment processes. RSC Advances, 2017, 7, 45938-45948.	1.7	15
151	Fourier transform infrared spectroscopy as a surrogate tool for the quantification of naphthenic acids in oil sands process water and groundwater. Science of the Total Environment, 2020, 734, 139191.	3.9	15
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