

Mohamed Gamal El-Din

List of Publications by Citations

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205
papers

6,306
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208
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7,495
ext. citations

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avg, IF

6.54
L-index

#	Paper	IF	Citations
205	Degradation of Aqueous Pharmaceuticals by Ozonation and Advanced Oxidation Processes: A Review. <i>Ozone: Science and Engineering</i> , 2006 , 28, 353-414	2.4	672
204	Ozonation and Advanced Oxidation Treatment of Emerging Organic Pollutants in Water and Wastewater. <i>Ozone: Science and Engineering</i> , 2008 , 30, 21-26	2.4	161
203	Aqueous Pesticide Degradation by Ozonation and Ozone-Based Advanced Oxidation Processes: A Review (Part I). <i>Ozone: Science and Engineering</i> , 2005 , 27, 83-114	2.4	142
202	Naphthenic acids speciation and removal during petroleum-coke adsorption and ozonation of oil sands process-affected water. <i>Science of the Total Environment</i> , 2011 , 409, 5119-25	10.2	131
201	Ozonation of oil sands process-affected water accelerates microbial bioremediation. <i>Environmental Science & Technology</i> , 2010 , 44, 8350-6	10.3	119
200	Toxicity of untreated and ozone-treated oil sands process-affected water (OSPW) to early life stages of the fathead minnow (<i>Pimephales promelas</i>). <i>Water Research</i> , 2012 , 46, 6359-68	12.5	118
199	Aqueous Pesticide Degradation by Ozonation and Ozone-Based Advanced Oxidation Processes: A Review (Part II). <i>Ozone: Science and Engineering</i> , 2005 , 27, 173-202	2.4	101
198	Biochar properties and lead(II) adsorption capacity depend on feedstock type, pyrolysis temperature, and steam activation. <i>Chemosphere</i> , 2019 , 231, 393-404	8.4	98
197	Impact of ozonation on naphthenic acids speciation and toxicity of oil sands process-affected water to <i>Vibrio fischeri</i> and mammalian immune system. <i>Environmental Science & Technology</i> , 2013 , 47, 6518-26	10.3	94
196	The impact of metallic coagulants on the removal of organic compounds from oil sands process-affected water. <i>Environmental Science & Technology</i> , 2011 , 45, 8452-9	10.3	93
195	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. <i>Environmental Science & Technology</i> , 2012 , 46, 8984-91	10.3	91
194	The toxicity of oil sands process-affected water (OSPW): A critical review. <i>Science of the Total Environment</i> , 2017 , 601-602, 1785-1802	10.2	89
193	Petroleum coke adsorption as a water management option for oil sands process-affected water. <i>Science of the Total Environment</i> , 2012 , 427-428, 364-72	10.2	88
192	A solar-driven UV/Chlorine advanced oxidation process. <i>Water Research</i> , 2012 , 46, 5672-5682	12.5	87
191	High efficiency removal of heavy metals using tire-derived activated carbon vs commercial activated carbon: Insights into the adsorption mechanisms. <i>Chemosphere</i> , 2021 , 264, 128455	8.4	87
190	Application of a solar UV/chlorine advanced oxidation process to oil sands process-affected water remediation. <i>Environmental Science & Technology</i> , 2014 , 48, 9692-701	10.3	83
189	The effects of pretreatment on nanofiltration and reverse osmosis membrane filtration for desalination of oil sands process-affected water. <i>Separation and Purification Technology</i> , 2011 , 81, 418-428	8.3	83

188	Transmission of SARS-CoV-2 via fecal-oral and aerosols-borne routes: Environmental dynamics and implications for wastewater management in underprivileged societies. <i>Science of the Total Environment</i> , 2020 , 743, 140709	10.2	82
187	The impacts of ozonation on oil sands process-affected water biodegradability and biofilm formation characteristics in bioreactors. <i>Bioresource Technology</i> , 2013 , 130, 269-77	11	82
186	Effect of ozonation on the estrogenicity and androgenicity of oil sands process-affected water. <i>Environmental Science & Technology</i> , 2011 , 45, 6268-74	10.3	75
185	Degradation of Endocrine Disrupting Chemicals by Ozone/AOPs. <i>Ozone: Science and Engineering</i> , 2007 , 29, 153-176	2.4	75
184	Biochar surface complexation and Ni(II), Cu(II), and Cd(II) adsorption in aqueous solutions depend on feedstock type. <i>Science of the Total Environment</i> , 2020 , 712, 136538	10.2	74
183	Structure-reactivity of naphthenic acids in the ozonation process. <i>Environmental Science & Technology</i> , 2011 , 45, 7431-7	10.3	72
182	Ozonation attenuates the steroidogenic disruptive effects of sediment free oil sands process water in the H295R cell line. <i>Chemosphere</i> , 2010 , 80, 578-84	8.4	70
181	Kinetics and mechanism of the degradation of two pesticides in aqueous solutions by ozonation. <i>Chemosphere</i> , 2010 , 78, 557-62	8.4	64
180	Transcriptional responses of the brain-gonad-liver axis of fathead minnows exposed to untreated and ozone-treated oil sands process-affected water. <i>Environmental Science & Technology</i> , 2012 , 46, 9701-8	10.3	63
179	Fabrication of porous polymeric nanocomposite membranes with enhanced anti-fouling properties: Effect of casting composition. <i>Journal of Membrane Science</i> , 2013 , 444, 449-460	9.6	63
178	Oxidation kinetics of two pesticides in natural waters by ozonation and ozone combined with hydrogen peroxide. <i>Water Research</i> , 2011 , 45, 2517-26	12.5	62
177	Membrane concentrate management options: a comprehensive critical reviewA paper submitted to the Journal of Environmental Engineering and Science.. <i>Canadian Journal of Civil Engineering</i> , 2009 , 36, 1107-1119	1.3	62
176	Effects of exposure to oil sands process-affected water from experimental reclamation ponds on <i>Chironomus dilutus</i> . <i>Water Research</i> , 2012 , 46, 1662-72	12.5	57
175	Effect of molecular structure on the relative reactivity of naphthenic acids in the UV/H ₂ O ₂ advanced oxidation process. <i>Environmental Science & Technology</i> , 2012 , 46, 10727-34	10.3	57
174	Treatment of oil sands process-affected water with ceramic ultrafiltration membrane: Effects of operating conditions on membrane performance. <i>Separation and Purification Technology</i> , 2014 , 122, 170-182	8.3	54
173	Comparison of UV/hydrogen peroxide, potassium ferrate(VI), and ozone in oxidizing the organic fraction of oil sands process-affected water (OSPW). <i>Water Research</i> , 2016 , 100, 476-485	12.5	54
172	Microbial community structure and operational performance of a fluidized bed biofilm reactor treating oil sands process-affected water. <i>International Biodeterioration and Biodegradation</i> , 2014 , 91, 111-118	4.8	52
171	Treatment of oil sands process-affected water using moving bed biofilm reactors: With and without ozone pretreatment. <i>Bioresource Technology</i> , 2015 , 192, 219-27	11	51

170	Ozone treatment ameliorates oil sands process water toxicity to the mammalian immune system. <i>Water Research</i> , 2011 , 45, 5849-57	12.5	51
169	Coagulation/flocculation process with polyaluminum chloride for the remediation of oil sands process-affected water: Performance and mechanism study. <i>Journal of Environmental Management</i> , 2015 , 160, 254-62	7.9	50
168	Advanced analytical mass spectrometric techniques and bioassays to characterize untreated and ozonated oil sands process-affected water. <i>Environmental Science & Technology</i> , 2014 , 48, 11090-9	10.3	50
167	Evaluation of membrane fouling for in-line filtration of oil sands process-affected water: the effects of pretreatment conditions. <i>Environmental Science & Technology</i> , 2012 , 46, 2877-84	10.3	49
166	Decomposition of cyclohexanoic acid by the UV/H ₂ O ₂ process under various conditions. <i>Science of the Total Environment</i> , 2012 , 426, 387-92	10.2	46
165	An in-situ integrated system of carbon nanotubes nanocomposite membrane for oil sands process-affected water treatment. <i>Journal of Membrane Science</i> , 2013 , 429, 418-427	9.6	46
164	Degradation of a model naphthenic acid, cyclohexanoic acid, by vacuum UV (172 nm) and UV (254 nm)/H ₂ O ₂ . <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12067-74	2.8	46
163	The acute and sub-chronic exposures of goldfish to naphthenic acids induce different host defense responses. <i>Aquatic Toxicology</i> , 2012 , 109, 143-9	5.1	45
162	Impact of conditioning films on the initial adhesion of <i>Burkholderia cepacia</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 91, 181-8	6	44
161	Investigation of the impact of organic solvent type and solution pH on the extraction efficiency of naphthenic acids from oil sands process-affected water. <i>Chemosphere</i> , 2016 , 146, 472-7	8.4	43
160	Treatment of oil sands process-affected water (OSPW) using a membrane bioreactor with a submerged flat-sheet ceramic microfiltration membrane. <i>Water Research</i> , 2016 , 88, 1-11	12.5	43
159	Kinetics study on the degradation of a model naphthenic acid by ethylenediamine-N,N'-disuccinic acid-modified Fenton process. <i>Journal of Hazardous Materials</i> , 2016 , 318, 371-378	12.8	43
158	Ozonation degrades all detectable organic compound classes in oil sands process-affected water; an application of high-performance liquid chromatography/online mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 2317-26	2.2	42
157	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. <i>Journal of Hazardous Materials</i> , 2017 , 326, 120-129	12.8	41
156	Isolated cellulose nanofibers for Cu (II) and Zn (II) removal: performance and mechanisms. <i>Carbohydrate Polymers</i> , 2019 , 221, 231-241	10.3	41
155	Effect of ozonation on the naphthenic acids speciation and toxicity of pH-dependent organic extracts of oil sands process-affected water. <i>Science of the Total Environment</i> , 2015 , 506-507, 66-75	10.2	41
154	Comparison of Nitrilotriacetic Acid and [S,S]-Ethylenediamine-N,N'-disuccinic Acid in UV-Fenton for the Treatment of Oil Sands Process-Affected Water at Natural pH. <i>Environmental Science & Technology</i> , 2016 , 50, 10535-10544	10.3	41
153	Perspectives on environmental impacts and a land reclamation strategy for solar and wind energy systems. <i>Science of the Total Environment</i> , 2020 , 718, 134602	10.2	41

152	Treatment of oil sands process-affected water (OSPW) using ozonation combined with integrated fixed-film activated sludge (IFAS). <i>Water Research</i> , 2015 , 85, 167-76	12.5	40
151	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. <i>Water Research</i> , 2016 , 105, 444-455	12.5	40
150	Degradation of a model naphthenic acid by nitrilotriacetic acid [modified Fenton process. <i>Chemical Engineering Journal</i> , 2016 , 292, 340-347	14.7	40
149	Comparison of classical fenton, nitrilotriacetic acid (NTA)-Fenton, UV-Fenton, UV photolysis of Fe-NTA, UV-NTA-Fenton, and UV-HO for the degradation of cyclohexanoic acid. <i>Chemosphere</i> , 2017 , 175, 178-185	8.4	39
148	Characterization and determination of naphthenic acids species in oil sands process-affected water and groundwater from oil sands development area of Alberta, Canada. <i>Water Research</i> , 2018 , 128, 129-137	12.5	36
147	Fractionation of oil sands-process affected water using pH-dependent extractions: a study of dissociation constants for naphthenic acids species. <i>Chemosphere</i> , 2015 , 127, 291-6	8.4	35
146	Degradation of naphthenic acid model compounds in aqueous solution by UV activated persulfate: Influencing factors, kinetics and reaction mechanisms. <i>Chemosphere</i> , 2018 , 211, 271-277	8.4	34
145	Effect of reactor configuration and microbial characteristics on biofilm reactors for oil sands process-affected water treatment. <i>International Biodeterioration and Biodegradation</i> , 2014 , 89, 74-81	4.8	34
144	Comparison of methods for determination of total oil sands-derived naphthenic acids in water samples. <i>Chemosphere</i> , 2017 , 187, 376-384	8.4	33
143	Granular activated carbon for simultaneous adsorption and biodegradation of toxic oil sands process-affected water organic compounds. <i>Journal of Environmental Management</i> , 2015 , 152, 49-57	7.9	33
142	Treatment of oil sands process-affected water using membrane bioreactor coupled with ozonation: A comparative study. <i>Chemical Engineering Journal</i> , 2016 , 302, 485-497	14.7	33
141	Oxidation of resin and fatty acids by ozone: kinetics and toxicity study. <i>Water Research</i> , 2006 , 40, 392-400	2.5	32
140	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. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119366	21.8	31
139	Effects of Ozone and Ozone/Hydrogen Peroxide on the Degradation of Model and Real Oil-Sands-Process-Affected-Water Naphthenic Acids. <i>Ozone: Science and Engineering</i> , 2015 , 37, 45-54	2.4	30
138	Oxidation of Oil Sands Process-Affected Water by Potassium Ferrate(VI). <i>Environmental Science & Technology</i> , 2016 , 50, 4238-47	10.3	30
137	Removal of organic compounds and trace metals from oil sands process-affected water using zero valent iron enhanced by petroleum coke. <i>Journal of Environmental Management</i> , 2014 , 139, 50-8	7.9	30
136	Next-generation pyrosequencing analysis of microbial biofilm communities on granular activated carbon in treatment of oil sands process-affected water. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4037-48	4.8	29
135	Isotherm and kinetic studies on adsorption of oil sands process-affected water organic compounds using granular activated carbon. <i>Chemosphere</i> , 2018 , 202, 716-725	8.4	29

134	The analysis of goldfish (<i>Carassius auratus</i> L.) innate immune responses after acute and subchronic exposures to oil sands process-affected water. <i>Toxicological Sciences</i> , 2014 , 138, 59-68	4.4	29
133	The impact of various ozone pretreatment doses on the performance of endogenous microbial communities for the remediation of oil sands process-affected water. <i>International Biodeterioration and Biodegradation</i> , 2015 , 100, 17-28	4.8	29
132	Advanced treatment of liquid swine manure using physico-chemical treatment. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1632-8	12.8	29
131	Adsorption of metals from oil sands process water (OSPW) under natural pH by sludge-based Biochar/Chitosan composite. <i>Water Research</i> , 2021 , 194, 116930	12.5	29
130	Pilot-scale UV/H ₂ O ₂ advanced oxidation process for municipal reuse water: Assessing micropollutant degradation and estrogenic impacts on goldfish (<i>Carassius auratus</i> L.). <i>Water Research</i> , 2016 , 101, 157-166	12.5	29
129	Commercial naphthenic acids and the organic fraction of oil sands process water induce different effects on pro-inflammatory gene expression and macrophage phagocytosis in mice. <i>Journal of Applied Toxicology</i> , 2012 , 32, 968-79	4.1	28
128	Fate and abundance of classical and heteroatomic naphthenic acid species after advanced oxidation processes: Insights and indicators of transformation and degradation. <i>Water Research</i> , 2017 , 125, 62-71	12.5	27
127	Degradation kinetics and structure-reactivity relation of naphthenic acids during anodic oxidation on graphite electrodes. <i>Chemical Engineering Journal</i> , 2019 , 370, 997-1007	14.7	26
126	Ultra Performance Liquid Chromatography Ion Mobility Time-of-Flight Mass Spectrometry Characterization of Naphthenic Acids Species from Oil Sands Process-Affected Water. <i>Environmental Science & Technology</i> , 2015 , 49, 11737-45	10.3	25
125	Impact of ozonation pre-treatment of oil sands process-affected water on the operational performance of a GAC-fluidized bed biofilm reactor. <i>Biodegradation</i> , 2014 , 25, 811-23	4.1	24
124	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. <i>Environmental Pollution</i> , 2021 , 281, 117094	9.3	24
123	Silver-Ion Solid Phase Extraction Separation of Classical, Aromatic, Oxidized, and Heteroatomic Naphthenic Acids from Oil Sands Process-Affected Water. <i>Environmental Science & Technology</i> , 2016 , 50, 6433-41	10.3	24
122	Understanding the similarities and differences between ozone and peroxone in the degradation of naphthenic acids: Comparative performance for potential treatment. <i>Chemosphere</i> , 2017 , 180, 149-159	8.4	23
121	Bioreactors for oil sands process-affected water (OSPW) treatment: A critical review. <i>Science of the Total Environment</i> , 2018 , 627, 916-933	10.2	23
120	Characterization and distribution of metal and nonmetal elements in the Alberta oil sands region of Canada. <i>Chemosphere</i> , 2016 , 147, 218-29	8.4	23
119	Pilot-scale study on the treatment of basal aquifer water using ultrafiltration, reverse osmosis and evaporation/crystallization to achieve zero-liquid discharge. <i>Journal of Environmental Management</i> , 2016 , 165, 213-223	7.9	22
118	Artificial Neural Networks Modeling of Ozone Bubble Columns: Mass Transfer Coefficient, Gas Hold-Up, and Bubble Size. <i>Ozone: Science and Engineering</i> , 2007 , 29, 343-352	2.4	22
117	Performance of flocs and biofilms in integrated fixed-film activated sludge (IFAS) systems for the treatment of oil sands process-affected water (OSPW). <i>Chemical Engineering Journal</i> , 2017 , 314, 368-377	14.7	21

116	Comparison of UV/Persulfate and UV/HO for the removal of naphthenic acids and acute toxicity towards <i>Vibrio fischeri</i> from petroleum production process water. <i>Science of the Total Environment</i> , 2019 , 694, 133686	10.2	21
115	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). <i>Biochemical Engineering Journal</i> , 2017 , 122, 123-132	4.2	20
114	Prediction of naphthenic acid species degradation by kinetic and surrogate models during the ozonation of oil sands process-affected water. <i>Science of the Total Environment</i> , 2014 , 493, 282-90	10.2	20
113	Mechanistic investigation of industrial wastewater naphthenic acids removal using granular activated carbon (GAC) biofilm based processes. <i>Science of the Total Environment</i> , 2016 , 541, 238-246	10.2	19
112	Application of Engineered Si Nanoparticles in Light-Induced Advanced Oxidation Remediation of a Water-Borne Model Contaminant. <i>ACS Nano</i> , 2016 , 10, 5405-12	16.7	19
111	Adsorption of organic matter in oil sands process water (OSPW) by carbon xerogel. <i>Water Research</i> , 2019 , 154, 402-411	12.5	19
110	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. <i>Chemosphere</i> , 2017 , 179, 359-366	8.4	18
109	Photodegradation of naphthenic acids induced by natural photosensitizer in oil sands process water. <i>Water Research</i> , 2019 , 164, 114913	12.5	18
108	Forward osmosis as an approach to manage oil sands tailings water and on-site basal depressurization water. <i>Journal of Hazardous Materials</i> , 2017 , 327, 18-27	12.8	17
107	Degradation of recalcitrant naphthenic acids from raw and ozonated oil sands process-affected waters by a semi-passive biofiltration process. <i>Water Research</i> , 2018 , 133, 310-318	12.5	17
106	The role of ozone pretreatment on optimization of membrane bioreactor for treatment of oil sands process-affected water. <i>Journal of Hazardous Materials</i> , 2018 , 347, 470-477	12.8	17
105	Monitoring of classical, oxidized, and heteroatomic naphthenic acids species in oil sands process water and groundwater from the active oil sands operation area. <i>Science of the Total Environment</i> , 2018 , 645, 277-285	10.2	17
104	Treatment of oil sands process-affected water by submerged ceramic membrane microfiltration system. <i>Separation and Purification Technology</i> , 2014 , 138, 198-209	8.3	17
103	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. <i>Journal of Environmental Management</i> , 2015 , 151, 540-9	7.9	17
102	UV and hydrogen peroxide treatment restores changes in innate immunity caused by exposure of fish to reuse water. <i>Water Research</i> , 2015 , 71, 257-73	12.5	17
101	Degradation of organics in real oil sands process water by electro-oxidation using graphite and dimensionally stable anodes. <i>Chemical Engineering Journal</i> , 2020 , 389, 124406	14.7	16
100	Treatment of raw and ozonated oil sands process-affected water under decoupled denitrifying anoxic and nitrifying aerobic conditions: a comparative study. <i>Biodegradation</i> , 2016 , 27, 247-264	4.1	16
99	Indigenous microbes survive in situ ozonation improving biodegradation of dissolved organic matter in aged oil sands process-affected waters. <i>Chemosphere</i> , 2013 , 93, 2748-55	8.4	16

98	Maximizing the Enhanced Ozone Oxidation of Kraft Pulp Mill Effluents in an Impinging-Jet Bubble Column. <i>Ozone: Science and Engineering</i> , 2001 , 23, 479-493	2.4	16
97	Positive and negative electrospray ionization analyses of the organic fractions in raw and oxidized oil sands process-affected water. <i>Chemosphere</i> , 2016 , 165, 239-247	8.4	16
96	Optimization of moving bed biofilm reactors for oil sands process-affected water treatment: The effect of HRT and ammonia concentrations. <i>Science of the Total Environment</i> , 2017 , 598, 690-696	10.2	14
95	Dynamics of microbial community structure and nutrient removal from an innovative side-stream enhanced biological phosphorus removal process. <i>Journal of Environmental Management</i> , 2017 , 198, 300-307	7.9	14
94	Integrated mild ozonation with biofiltration can effectively enhance the removal of naphthenic acids from hydrocarbon-contaminated water. <i>Science of the Total Environment</i> , 2019 , 678, 197-206	10.2	14
93	Electro-oxidation by graphite anode for naphthenic acids degradation, biodegradability enhancement and toxicity reduction. <i>Science of the Total Environment</i> , 2019 , 671, 270-279	10.2	14
92	Comparison of the Acute Immunotoxicity of Nonfractionated and Fractionated Oil Sands Process-Affected Water Using Mammalian Macrophages. <i>Environmental Science & Technology</i> , 2017 , 51, 8624-8634	10.3	14
91	Geothermal energy resources: potential environmental impact and land reclamation. <i>Environmental Reviews</i> , 2020 , 28, 415-427	4.5	13
90	Optimization of ozonation combined with integrated fixed-film activated sludge (IFAS) in the treatment of oil sands process-affected water (OSPW). <i>International Biodeterioration and Biodegradation</i> , 2016 , 112, 31-41	4.8	13
89	High-rate nitrogen removal from carbon limited wastewater using sulfur-based constructed wetland: Impact of sulfur sources. <i>Science of the Total Environment</i> , 2020 , 744, 140969	10.2	13
88	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. <i>RSC Advances</i> , 2017 , 7, 17670-17681	3.7	12
87	Biofiltration of oil sands process water in fixed-bed biofilm reactors shapes microbial community structure for enhanced degradation of naphthenic acids. <i>Science of the Total Environment</i> , 2020 , 718, 137028	10.2	12
86	Comprehensive chemical analysis and characterization of heavy oil electric desalting wastewaters in petroleum refineries. <i>Science of the Total Environment</i> , 2020 , 724, 138117	10.2	12
85	Separation of oil sands process water organics and inorganics and examination of their acute toxicity using standard in-vitro bioassays. <i>Science of the Total Environment</i> , 2019 , 695, 133532	10.2	12
84	Kinetics of Estrone Ozone/Hydrogen Peroxide Advanced Oxidation Treatment. <i>Ozone: Science and Engineering</i> , 2008 , 30, 249-255	2.4	12
83	A comparative study of microbial dynamics and phosphorus removal for a two side-stream wastewater treatment processes. <i>RSC Advances</i> , 2017 , 7, 45938-45948	3.7	11
82	The effect of carboxyl multiwalled carbon nanotubes content on the structure and performance of polysulfone membranes for oil sands process-affected water treatment. <i>Separation and Purification Technology</i> , 2018 , 199, 170-181	8.3	11
81	A burning issue: The effect of organic ultraviolet filter exposure on the behaviour and physiology of <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2021 , 750, 141707	10.2	11

80	Advanced oxidation processes for the degradation of dissolved organics in produced water: A review of process performance, degradation kinetics and pathway. <i>Chemical Engineering Journal</i> , 2022 , 429, 132492	14.7	11
79	Pseudomonads biodegradation of aromatic compounds in oil sands process-affected water. <i>Science of the Total Environment</i> , 2015 , 521-522, 59-67	10.2	10
78	Fourier transform infrared spectroscopy as a surrogate tool for the quantification of naphthenic acids in oil sands process water and groundwater. <i>Science of the Total Environment</i> , 2020 , 734, 139191	10.2	10
77	Molecular transformation of dissolved organic matter in process water from oil and gas operation during UV/HO, UV/chlorine, and UV/persulfate processes. <i>Science of the Total Environment</i> , 2020 , 730, 139072	10.2	10
76	Aerobic sludge granulation in shale gas flowback water treatment: Assessment of the bacterial community dynamics and modeling of bioreactor performance using artificial neural network. <i>Bioresource Technology</i> , 2020 , 313, 123687	11	10
75	An omic approach for the identification of oil sands process-affected water compounds using multivariate statistical analysis of ultrahigh resolution mass spectrometry datasets. <i>Science of the Total Environment</i> , 2015 , 511, 230-7	10.2	10
74	Desalination of oil sands process-affected water and basal depressurization water in Fort McMurray, Alberta, Canada: application of electrodialysis. <i>Water Science and Technology</i> , 2013 , 68, 2668-75	2.2	10
73	Assessment of raw and ozonated oil sands process-affected water exposure in developing zebrafish: Associating morphological changes with gene expression. <i>Environmental Pollution</i> , 2018 , 241, 959-968	9.3	10
72	The roles of pH and draw solute on forward osmosis process treating aqueous naphthenic acids. <i>Journal of Membrane Science</i> , 2018 , 549, 456-465	9.6	9
71	Pristine and engineered biochar for the removal of contaminants co-existing in several types of industrial wastewaters: A critical review. <i>Science of the Total Environment</i> , 2021 , 151120	10.2	9
70	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. <i>Science of the Total Environment</i> , 2021 , 770, 144679	10.2	9
69	Influences of coagulation pretreatment on the characteristics of crude oil electric desalting wastewaters. <i>Chemosphere</i> , 2021 , 264, 128531	8.4	9
68	Removal of per- and poly-fluoroalkyl substances (PFASs) by wetlands: Prospects on plants, microbes and the interplay. <i>Science of the Total Environment</i> , 2021 , 800, 149570	10.2	9
67	Impact of polymeric membrane filtration of oil sands process water on organic compounds quantification. <i>Water Science and Technology</i> , 2014 , 70, 771-9	2.2	8
66	Ozone inactivation of infectious prions in rendering plant and municipal wastewaters. <i>Science of the Total Environment</i> , 2014 , 470-471, 717-25	10.2	8
65	Catalytic ozonation of naphthenic acids in the presence of carbon-based metal-free catalysts: Performance and kinetic study. <i>Catalysis Today</i> , 2021 , 361, 102-108	5.3	8
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