

Daniel Alessi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

4,697
citations

38
h-index

64
g-index

162
ext. papers

6,085
ext. citations

7.8
avg, IF

6.18
L-index

#	Paper	IF	Citations
159	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. <i>Science of the Total Environment</i> , 2018 , 619-620, 815-826	10.2	310
158	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , 2019 , 124, 521-532	12.9	287
157	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. <i>Environment International</i> , 2019 , 126, 336-345	12.9	175
156	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 366-381	30.2	171
155	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019 , 655, 751-758	10.2	148
154	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. <i>Science of the Total Environment</i> , 2018 , 625, 1567-1573	10.2	139
153	Uranium redox transition pathways in acetate-amended sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4506-4511	11.5	138
152	Influence of pyrolysis temperature on production of digested sludge biochar and its application for ammonium removal from municipal wastewater. <i>Journal of Cleaner Production</i> , 2019 , 209, 927-936	10.3	117
151	Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 2512-2528	5.5	114
150	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. <i>Environment International</i> , 2019 , 122, 357-362	12.9	111
149	Synergistic effect of cationic surfactants on perchloroethylene degradation by zero-valent iron. <i>Environmental Science & Technology</i> , 2001 , 35, 3713-7	10.3	101
148	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. <i>Soil Use and Management</i> , 2020 , 36, 358-386	2.1	100
147	Chemical and toxicological characterizations of hydraulic fracturing flowback and produced water. <i>Water Research</i> , 2017 , 114, 78-87	12.5	94
146	Quantitative separation of monomeric U(IV) from UO ₂ in products of U(VI) reduction. <i>Environmental Science & Technology</i> , 2012 , 46, 6150-7	10.3	89
145	Competitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approach. <i>Environmental Science & Technology</i> , 2015 , 49, 12851-9	10.3	87
144	Trace elements at the intersection of marine biological and geochemical evolution. <i>Earth-Science Reviews</i> , 2016 , 163, 323-348	10.2	86
143	The product of microbial uranium reduction includes multiple species with U(IV)βphosphate coordination. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 131, 115-127	5.5	84

142	Stability of heavy metals in soil washing residue with and without biochar addition under accelerated ageing. <i>Science of the Total Environment</i> , 2018 , 619-620, 185-193	10.2	75
141	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. <i>Journal of Environmental Management</i> , 2015 , 151, 443-9	7.9	71
140	Relative reactivity of biogenic and chemogenic uraninite and biogenic noncrystalline U(IV). <i>Environmental Science & Technology</i> , 2013 , 47, 9756-63	10.3	69
139	Effect of dissolved organic carbon from sludge, Rice straw and spent coffee ground biochar on the mobility of arsenic in soil. <i>Science of the Total Environment</i> , 2018 , 636, 1241-1248	10.2	69
138	Biogeochemical controls on the product of microbial U(VI) reduction. <i>Environmental Science & Technology</i> , 2013 , 47, 12351-8	10.3	67
137	Sublethal and Reproductive Effects of Acute and Chronic Exposure to Flowback and Produced Water from Hydraulic Fracturing on the Water Flea <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2017 , 51, 3032-3039	10.3	65
136	Redox-induced mobilization of Ag, Sb, Sn, and Tl in the dissolved, colloidal and solid phase of a biochar-treated and un-treated mining soil. <i>Environment International</i> , 2020 , 140, 105754	12.9	60
135	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale development: Water sourcing, treatment and disposal practices. <i>Canadian Water Resources Journal</i> , 2017 , 42, 105-121	1.7	58
134	Thermodynamic Analysis of Nickel(II) and Zinc(II) Adsorption to Biochar. <i>Environmental Science & Technology</i> , 2018 , 52, 6246-6255	10.3	58
133	Cadmium adsorption to mixtures of soil components: Testing the component additivity approach. <i>Chemical Geology</i> , 2010 , 270, 186-195	4.2	58
132	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. <i>Advances in Colloid and Interface Science</i> , 2019 , 265, 1-13	14.3	58
131	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. <i>Chemosphere</i> , 2019 , 235, 825-831	8.4	54
130	Effects on Biotransformation, Oxidative Stress, and Endocrine Disruption in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Exposed to Hydraulic Fracturing Flowback and Produced Water. <i>Environmental Science & Technology</i> , 2017 , 51, 940-947	10.3	43
129	Organo-illite as a Low Permeability Sorbent to Retard Migration of Anionic Contaminants. <i>Journal of Environmental Engineering, ASCE</i> , 2002 , 128, 583-587	2	43
128	Speciation and reactivity of uranium products formed during in situ bioremediation in a shallow alluvial aquifer. <i>Environmental Science & Technology</i> , 2014 , 48, 12842-50	10.3	42
127	Mechanisms of the Removal of U(VI) from Aqueous Solution Using Biochar: A Combined Spectroscopic and Modeling Approach. <i>Environmental Science & Technology</i> , 2018 , 52, 13057-13067	10.3	41
126	Modified sequential extraction for biochar and petroleum coke: Metal release potential and its environmental implications. <i>Bioresource Technology</i> , 2017 , 236, 106-110	11	39
125	Selective adsorption and irreversible fixation behavior of cesium onto 2:1 layered clay mineral: A mini review. <i>Journal of Hazardous Materials</i> , 2019 , 369, 569-576	12.8	39

124	Cell surface reactivity of <i>Synechococcus</i> sp. PCC 7002: Implications for metal sorption from seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 169, 30-44	5.5	39
123	Assessing long-term stability of cadmium and lead in a soil washing residue amended with MgO-based binders using quantitative accelerated ageing. <i>Science of the Total Environment</i> , 2018 , 643, 1571-1578	10.2	39
122	Application of an Integrated SWAT/MODFLOW Model to Evaluate Potential Impacts of Climate Change and Water Withdrawals on Groundwater Surface Water Interactions in West-Central Alberta. <i>Water (Switzerland)</i> , 2019 , 11, 110	3	39
121	Change of the point of zero net proton charge (pHPZNPC) of clay minerals with ionic strength. <i>Chemical Geology</i> , 2018 , 493, 458-467	4.2	36
120	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. <i>Chemosphere</i> , 2019 , 233, 149-156	8.4	34
119	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. <i>Environmental Research</i> , 2020 , 183, 109152	7.9	31
118	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. <i>Environment International</i> , 2019 , 131, 104990	12.9	31
117	Influence of quaternary ammonium on sorption of selected metal cations onto clinoptilolite zeolite. <i>Journal of Environmental Quality</i> , 2002 , 31, 1106-14	3.4	31
116	Nanobiochar: production, properties, and multifunctional applications. <i>Environmental Science: Nano</i> , 2020 , 7, 3279-3302	7.1	29
115	Hydrogeological constraints on the formation of Palaeoproterozoic banded iron formations. <i>Nature Geoscience</i> , 2019 , 12, 558-563	18.3	27
114	Acid-base properties of kaolinite, montmorillonite and illite at marine ionic strength. <i>Chemical Geology</i> , 2018 , 483, 191-200	4.2	26
113	Comparison of nickel adsorption on biochars produced from mixed softwood and <i>Miscanthus</i> straw. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 14626-14635	5.1	26
112	Using CO as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science & Technology</i> , 2020 , 54, 6329-6343	10.3	25
111	Selection criteria for oxidation method in total organic carbon measurement. <i>Chemosphere</i> , 2018 , 199, 453-458	8.4	25
110	Cadmium adsorption to clay-microbe aggregates: Implications for marine heavy metals cycling. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 290, 124-136	5.5	25
109	Application of surface complexation modeling to trace metals uptake by biochar-amended agricultural soils. <i>Applied Geochemistry</i> , 2018 , 88, 103-112	3.5	24
108	Mobility of arsenic in soil amended with biochar derived from biomass with different lignin contents: Relationships between lignin content and dissolved organic matter leaching. <i>Chemical Engineering Journal</i> , 2020 , 393, 124687	14.7	23
107	Nontarget profiling of organic compounds in a temporal series of hydraulic fracturing flowback and produced waters. <i>Environment International</i> , 2019 , 131, 104944	12.9	22

106	Characterization and implications of solids associated with hydraulic fracturing flowback and produced water from the Duvernay Formation, Alberta, Canada. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 242-255	4.3	21
105	Long-term in situ oxidation of biogenic uraninite in an alluvial aquifer: impact of dissolved oxygen and calcium. <i>Environmental Science & Technology</i> , 2015 , 49, 7340-7	10.3	21
104	Stabilization-based soil remediation should consider long-term challenges. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	21
103	Uncertainties in determining microbial biomass C using the chloroform fumigation-Extraction method. <i>Chemical Geology</i> , 2011 , 280, 58-64	4.2	21
102	The impact of ionic strength on the proton reactivity of clay minerals. <i>Chemical Geology</i> , 2019 , 529, 1192-1194	4.4	20
101	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-41	11.1	19
100	Comparative Analysis of Hydraulic Fracturing Wastewater Practices in Unconventional Shale Development: Newspaper Coverage of Stakeholder Concerns and Social License to Operate. <i>Sustainability</i> , 2016 , 8, 912	3.6	19
99	Adsorption characteristics of cesium on the clay minerals: Structural change under wetting and drying condition. <i>Geoderma</i> , 2019 , 340, 49-54	6.7	19
98	Accuracy of methods for reporting inorganic element concentrations and radioactivity in oil and gas wastewaters from the Appalachian Basin, U.S. based on an inter-laboratory comparison. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 224-241	4.3	16
97	Toxicity in aquatic model species exposed to a temporal series of three different flowback and produced water samples collected from a horizontal hydraulically fractured well. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 180, 600-609	7	16
96	The roles of suspended solids in persulfate/Fe ²⁺ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. <i>Chemical Engineering Journal</i> , 2020 , 388, 1242-1249	14.7	16
95	Petrology and geochemistry of the Boolgeeda Iron Formation, Hamersley Basin, Western Australia. <i>Precambrian Research</i> , 2018 , 316, 155-173	3.9	16
94	Biochar colloids and their use in contaminants removal. <i>Biochar</i> , 2019 , 1, 151-162	10	16
93	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. <i>Environmental Science & Technology</i> , 2021 , 55, 7167-7185	10.3	16
92	Phytoplankton contributions to the trace-element composition of Precambrian banded iron formations. <i>Bulletin of the Geological Society of America</i> , 2018 , 130, 941-951	3.9	16
91	Interaction of biochar stability and abiotic aging: Influences of pyrolysis reaction medium and temperature. <i>Chemical Engineering Journal</i> , 2021 , 411, 128441	14.7	15
90	Metal oxide sorbents for the sustainable recovery of lithium from unconventional resources. <i>Applied Materials Today</i> , 2020 , 19, 100638	6.6	15
89	Temporal Changes in Microbial Community Composition and Geochemistry in Flowback and Produced Water from the Duvernay Formation. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1047-1057	3.2	14

88	Removal of organic acids from water using biochar and petroleum coke. <i>Environmental Technology and Innovation</i> , 2016 , 6, 141-151	7	14
87	Experimental Measurement of Monovalent Cation Adsorption onto <i>Bacillus subtilis</i> Cells. <i>Geomicrobiology Journal</i> , 2010 , 27, 464-472	2.5	14
86	Clay minerals as a source of cadmium to estuaries. <i>Scientific Reports</i> , 2020 , 10, 10417	4.9	14
85	Reusable magnetite nanoparticles-biochar composites for the efficient removal of chromate from water. <i>Scientific Reports</i> , 2020 , 10, 19007	4.9	14
84	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1790-1808	4.3	14
83	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022 ,	3.1	14
82	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. <i>Chemical Engineering Journal</i> , 2021 , 425, 131489	14.7	14
81	Effect of Acidic Conditions on Surface Properties and Metal Binding Capacity of Clay Minerals. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 2421-2429	3.2	13
80	In vitro assessment of endocrine disrupting potential of organic fractions extracted from hydraulic fracturing flowback and produced water (HF-FPW). <i>Environment International</i> , 2018 , 121, 824-831	12.9	13
79	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127060	12.8	13
78	The osmotic effect of hyper-saline hydraulic fracturing fluid on rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2019 , 211, 1-10	5.1	12
77	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125650	12.8	12
76	Modification of ordered mesoporous carbon for removal of environmental contaminants from aqueous phase: A review. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126266	12.8	12
75	Nutrient recovery from source-diverted blackwater: Optimization for enhanced phosphorus recovery and reduced co-precipitation. <i>Journal of Cleaner Production</i> , 2019 , 235, 417-425	10.3	11
74	Understanding the effects of hydraulic fracturing flowback and produced water (FPW) to the aquatic invertebrate, <i>Lumbriculus variegatus</i> under various exposure regimes. <i>Environmental Pollution</i> , 2020 , 259, 113889	9.3	11
73	Adsorption characteristics of cesium onto calcium-silicate-hydrate in concrete powder and block. <i>Chemosphere</i> , 2020 , 259, 127494	8.4	11
72	Surface reactivity of the anaerobic phototrophic Fe(II)-oxidizing bacterium <i>Rhodovulum iodolum</i> : Implications for trace metal budgets in ancient oceans and banded iron formations. <i>Chemical Geology</i> , 2016 , 442, 113-120	4.2	10
71	Cell surface characterization and trace metal adsorptive properties of anaerobic ammonium-oxidizing (anammox) consortia. <i>Chemosphere</i> , 2019 , 221, 11-20	8.4	10

70	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> ,1-50	11.1	10
69	Measurements of bacterial mat metal binding capacity in alkaline and carbonate-rich systems. <i>Chemical Geology</i> , 2017 , 451, 17-24	4.2	9
68	Hydro-climate and biogeochemical processes control watershed organic carbon inflows: Development of an in-stream organic carbon module coupled with a process-based hydrologic model. <i>Science of the Total Environment</i> , 2020 , 718, 137281	10.2	9
67	Enhanced irreversible fixation of cesium by wetting and drying cycles in soil. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 149-157	4.7	9
66	Beam-induced oxidation of monomeric U(IV) species. <i>Journal of Synchrotron Radiation</i> , 2013 , 20, 197-9	2.4	9
65	Projecting impacts of wildfire and climate change on streamflow, sediment, and organic carbon yields in a forested watershed. <i>Journal of Hydrology</i> , 2020 , 590, 125403	6	9
64	Cell surface acid-base properties of the cyanobacterium <i>Synechococcus</i> : Influences of nitrogen source, growth phase and N:P ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 187, 179-194	5.5	9
63	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. <i>Journal of Nuclear Materials</i> , 2013 , 433, 233-239	3.3	8
62	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale developments: Regulatory regimes. <i>Canadian Water Resources Journal</i> , 2017 , 42, 122-137	1.7	8
61	Exposure to Hydraulic Fracturing Flowback Water Impairs () Cardiomyocyte Contractile Function and Swimming Performance. <i>Environmental Science & Technology</i> , 2020 , 54, 13579-13589	10.3	8
60	Assessment of impacts of diphenyl phosphate on groundwater and near-surface environments: Sorption and toxicity. <i>Journal of Contaminant Hydrology</i> , 2019 , 221, 50-57	3.9	8
59	Potential of asphalt concrete as a source of trace metals. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 397-405	4.7	8
58	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. <i>Chemical Engineering Journal</i> , 2022 , 428, 131967	14.7	8
57	Heavy metal dissolution mechanisms from electrical industrial sludge. <i>Science of the Total Environment</i> , 2019 , 696, 133922	10.2	7
56	Competitive adsorption of heavy metals by anaerobic ammonium-oxidizing (anammox) consortia. <i>Chemosphere</i> , 2020 , 258, 127289	8.4	7
55	Biogeochemistry of U, Ni, and As in two meromictic pit lakes at the Cluff Lake uranium mine, northern Saskatchewan. <i>Canadian Journal of Earth Sciences</i> , 2018 , 55, 463-474	1.5	7
54	A comparison of bulk versus laser ablation trace element analyses in banded iron formations: Insights into the mechanisms leading to compositional variability. <i>Chemical Geology</i> , 2019 , 506, 197-224	4.2	7
53	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 163, 112515	16.2	7

52	Response of aquatic microbial communities and bioindicator modelling of hydraulic fracturing flowback and produced water. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	6
51	Biochar-induced changes in metal mobility and uptake by perennial plants in a ferralsol of Brazil Atlantic forest. <i>Biochar</i> , 2019 , 1, 309-324	10	5
50	Application of Synchrotron X-ray Absorption Spectroscopy and Microscopy Techniques to the Study of Biogeochemical Processes 2019 , 238-261		5
49	Reduction of 2,4,6-Trinitrotoluene and Hexahydro-1,3,5-trinitro-1,3,5-triazine by Hydroxyl-Complexed Fe(II). <i>Journal of Environmental Engineering, ASCE</i> , 2008 , 134, 937-943	2	5
48	Particulate emissions from turbulent diffusion flames with entrained droplets: A laboratory simulation of gas flaring emissions. <i>Journal of Aerosol Science</i> , 2021 , 157, 105807	4.3	5
47	Field- and Lab-Based Potentiometric Titrations of Microbial Mats from the Fairmont Hot Spring, Canada. <i>Geomicrobiology Journal</i> , 2017 , 34, 851-863	2.5	4
46	Adsorption of biologically critical trace elements to the marine cyanobacterium <i>Synechococcus</i> sp. PCC 7002: Implications for marine trace metal cycling. <i>Chemical Geology</i> , 2019 , 525, 28-36	4.2	4
45	Colloidal transport mechanisms and sequestration of U, Ni, and As in meromictic mine pit lakes. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 265, 292-312	5.5	4
44	Effect of temperature on phenanthrene accumulation from hydraulic fracturing flowback and produced water in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Pollution</i> , 2021 , 272, 116411	9.3	4
43	The kaolinite shuttle links the Great Oxidation and Lomagundi events. <i>Nature Communications</i> , 2021 , 12, 2944	17.4	4
42	<i>Diopatra cuprea</i> worm burrow parchment: a cautionary tale of infaunal surface reactivity. <i>Lethaia</i> , 2020 , 53, 47-61	1.3	4
41	Changes to hepatic nutrient dynamics and energetics in rainbow trout (<i>Oncorhynchus mykiss</i>) following exposure to and recovery from hydraulic fracturing flowback and produced water. <i>Science of the Total Environment</i> , 2021 , 764, 142893	10.2	4
40	Characterizing Returning Polymers in Hydraulic-Fracturing Flowback and Produced Water: Implications for Colloid Formation (includes associated erratum). <i>SPE Journal</i> , 2021 , 26, 563-590	3.1	4
39	Inhibition of naphthalene leaching from municipal carbonaceous waste by a magnetic organophilic clay. <i>Journal of Hazardous Materials</i> , 2019 , 368, 578-583	12.8	3
38	Potentiometric Titrations to Characterize the Reactivity of Geomicrobial Surfaces 2019 , 79-92		3
37	HYDROSCAPE: A new versatile software program for evaluating contaminant transport in groundwater. <i>SoftwareX</i> , 2017 , 6, 261-266	2.7	3
36	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method.. <i>Science of the Total Environment</i> , 2022 , 152922	10.2	3
35	Hydraulic Fracturing Return Fluids from Offshore Hydrocarbon Extraction Present New Risks to Marine Ecosystems. <i>Environmental Science & Technology</i> , 2021 , 55, 4199-4201	10.3	3

34	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&T Water</i> , 2021 , 1, 108-116		3
33	A complex bioaccumulation story in flowback and produced water from hydraulic fracturing: The role of organic compounds in inorganic accumulation in <i>Lumbriculus variegatus</i> . <i>Journal of Hazardous Materials</i> , 2021 , 414, 125525	12.8	3
32	Lithium recovery from hydraulic fracturing flowback and produced water using a selective ion exchange sorbent. <i>Chemical Engineering Journal</i> , 2021 , 426, 130713	14.7	3
31	Production of a carbonaceous sorbent from the CO ₂ pyrolysis of hydraulic fracturing flowback and produced water solids. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103862	6.8	2
30	Response to Comment on "Competitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approach". <i>Environmental Science & Technology</i> , 2016 , 50, 1634-5	10.3	2
29	Applications of Fourier-transform Infrared Spectroscopy in Geomicrobiology 2019 , 288-313		2
28	Biogeochemical Behavior of Metals Along Two Permeable Reactive Barriers in a Mining-Affected Wetland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3536-3554	3.7	2
27	Hydraulic properties of the Paskapoo Formation in west-central Alberta. <i>Canadian Journal of Earth Sciences</i> , 2017 , 54, 883-892	1.5	2
26	Assessment of snowmelt and groundwater-surface water dynamics in mountains, foothills, and plains regions in northern latitudes. <i>Journal of Hydrology</i> , 2022 , 606, 127449	6	2
25	Effect of fulvic acid co-precipitation on biosynthesis of Fe(III) hydroxysulfate and its adsorption of lead.. <i>Environmental Pollution</i> , 2021 , 295, 118669	9.3	2
24	In Situ Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxidic Aquifer. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 2018-2030	3.2	2
23	XAS characterization of nano-chromite particles precipitated on magnetite-biochar composites. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108544	2.5	2
22	Modeling the Surface Chemistry of Biochars 2019 , 59-72		2
21	Arsenic bioaccumulation and biotransformation in aquatic organisms.. <i>Environment International</i> , 2022 , 163, 107221	12.9	2
20	Cost analysis of wastewater production from conventional and unconventional oil and gas wells. <i>Fuel</i> , 2022 , 323, 124222	7.1	2
19	Electron donor-driven bacterial and archaeal community patterns along forest ring edges in Ontario, Canada. <i>Environmental Microbiology Reports</i> , 2018 , 10, 663-672	3.7	1
18	Cadmium bioaccumulates after acute exposure but has no effect on locomotion or shelter-seeking behaviour in the invasive green shore crab (<i>Libinia emarginata</i>) 2017 , 5, cox057		1
17	A common well pad does not imply common toxicity: Assessing the acute and chronic toxicity of flowback and produced waters from four Montney Formation wells on the same well pad to the freshwater invertebrate <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2021 , 807, 150986	10.2	1

16	Group versus individual exposure: Do methodological decisions in aquatic toxicology alter experimental results?. <i>Science of the Total Environment</i> , 2021 , 764, 144288	10.2	1
15	Trace Elemental Partitioning on Clays Derived From Hydrothermal Muds of the El Tatio Geyser Field, Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021422	3.6	1
14	Surface reactivity of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 [Implications for trace metals transport to the oceans. <i>Chemical Geology</i> , 2021 , 562, 120045	4.2	1
13	Suspended solids-associated toxicity of hydraulic fracturing flowback and produced water on early life stages of zebrafish (<i>Danio rerio</i>). <i>Environmental Pollution</i> , 2021 , 287, 117614	9.3	1
12	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126528	12.8	1
11	Effects of salinity on the leaching of ionic species from hydrocarbon target formations during hydraulic fracturing. <i>Chemical Geology</i> , 2022 , 120718	4.2	0
10	Epoxidized linseed lipids as a durable and fast-curing alternative to drying oils. <i>Progress in Organic Coatings</i> , 2021 , 159, 106406	4.8	0
9	Binding and transport of Cr(III) by clay minerals during the Great Oxidation Event. <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117503	5.3	0
8	Pyrolyzed biomass-derived nanoparticles: a review of surface chemistry, contaminant mobility, and future research avenues to fill the gaps. <i>Biochar</i> , 2022 , 4,	10	0
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3	The influence of invertebrate faecal material on compositional heterogeneity, diagenesis and trace metal distribution in the Ogeechee River estuary, Georgia, USA. <i>Sedimentology</i> , 2021 , 68, 788-804	3.3	
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1	Biochar nanoparticles: interactions with and impacts on soil and water microorganisms 2022 , 139-154		