Daniel Alessi

List of Publications by Year
in descending order

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160	7,739	43973 48	58464 82
papers	citations	h-index	g-index

162	162	162	6531
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. Nature Reviews Earth & Environment, 2020, 1, 366-381.	12.2	493
2	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. Science of the Total Environment, 2018, 619-620, 815-826.	3.9	429
3	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. Environment International, 2019, 124, 521-532.	4.8	384
4	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. Environment International, 2019, 126, 336-345.	4.8	249
5	Effect of production temperature on lead removal mechanisms by rice straw biochars. Science of the Total Environment, 2019, 655, 751-758.	3.9	214
6	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. Soil Use and Management, 2020, 36, 358-386.	2.6	200
7	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. Science of the Total Environment, 2018, 625, 1567-1573.	3.9	190
8	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
9	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. Environment International, 2019, 122, 357-362.	4.8	164
10	Uranium redox transition pathways in acetate-amended sediments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4506-4511.	3.3	161
11	Trace elements at the intersection of marine biological and geochemical evolution. Earth-Science Reviews, 2016, 163, 323-348.	4.0	135
12	Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. Geochimica Et Cosmochimica Acta, 2011, 75, 2512-2528.	1.6	130
13	Cadmium adsorption to clay-microbe aggregates: Implications for marine heavy metals cycling. Geochimica Et Cosmochimica Acta, 2020, 290, 124-136.	1.6	124
14	Chemical and toxicological characterizations of hydraulic fracturing flowback and produced water. Water Research, 2017, 114, 78-87.	5.3	119
15	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. Advances in Colloid and Interface Science, 2019, 265, 1-13.	7.0	115
16	The product of microbial uranium reduction includes multiple species with U(IV)â€“phosphate coordination. Geochimica Et Cosmochimica Acta, 2014, 131, 115-127.	1.6	114
17	Effect of dissolved organic carbon from sludge, Rice straw and spent coffee ground biochar on the mobility of arsenic in soil. Science of the Total Environment, 2018, 636, 1241-1248.	3.9	111
18	Synergistic Effect of Cationic Surfactants on Perchloroethylene Degradation by Zero-Valent Iron. Environmental Science & Technology, 2001, 35, 3713-3717.	4.6	109

#	Article	IF	Citations
19	Competitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approach. Environmental Science & Technology, 2015, 49, 12851-12859.	4.6	108
20	Quantitative Separation of Monomeric U(IV) from UO₂ in Products of U(VI) Reduction. Environmental Science & Technology, 2012, 46, 6150-6157.	4.6	107
21	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. Chemosphere, 2019, 235, 825-831.	4.2	107
22	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. Environment International, 2020, 140, 105754.	4.8	104
23	Stability of heavy metals in soil washing residue with and without biochar addition under accelerated ageing. Science of the Total Environment, 2018, 619-620, 185-193.	3.9	96
24	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. Journal of Environmental Management, 2015, 151, 443-449.	3.8	92
25	Thermodynamic Analysis of Nickel(II) and Zinc(II) Adsorption to Biochar. Environmental Science & Technology, 2018, 52, 6246-6255.	4.6	91
26	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. Renewable and Sustainable Energy Reviews, 2022, 163, 112515.	8.2	87
27	Sublethal and Reproductive Effects of Acute and Chronic Exposure to Flowback and Produced Water from Hydraulic Fracturing on the Water Flea Daphnia magna. Environmental Science & Technology, 2017, 51, 3032-3039.	4.6	85
28	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. Journal of Hazardous Materials, 2022, 423, 127060.	6.5	82
29	Relative Reactivity of Biogenic and Chemogenic Uraninite and Biogenic Noncrystalline U(IV). Environmental Science & Technology, 2013, 47, 9756-9763.	4.6	81
30	Application of an Integrated SWATâ€“MODFLOW Model to Evaluate Potential Impacts of Climate Change and Water Withdrawals on Groundwaterâ€“Surface Water Interactions in West-Central Alberta. Water (Switzerland), 2019, 11, 110.	1.2	80
31	Biogeochemical Controls on the Product of Microbial U(VI) Reduction. Environmental Science & Technology, 2013, 47, 12351-12358.	4.6	79
32	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale development: Water sourcing, treatment and disposal practices. Canadian Water Resources Journal, 2017, 42, 105-121.	0.5	73
33	Biochar composites: Emerging trends, field successes and sustainability implications. Soil Use and Management, 2022, 38, 14-38.	2.6	73
34	Cadmium adsorption to mixtures of soil components: Testing the component additivity approach. Chemical Geology, 2010, 270, 186-195.	1.4	67
35	Nanobiochar: production, properties, and multifunctional applications. Environmental Science: Nano, 2020, 7, 3279-3302.	2.2	64
36	Mechanisms of the Removal of U(VI) from Aqueous Solution Using Biochar: A Combined Spectroscopic and Modeling Approach. Environmental Science & Technology, 2018, 52, 13057-13067.	4.6	63

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37	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. Chemical Engineering Journal, 2021, 425, 131489.	6.6	63
38	Selective adsorption and irreversible fixation behavior of cesium onto 2:1 layered clay mineral: A mini review. Journal of Hazardous Materials, 2019, 369, 569-576.	6.5	62
39	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. Environmental Research, 2020, 183, 109152.	3.7	60
40	Assessing long-term stability of cadmium and lead in a soil washing residue amended with MgO-based binders using quantitative accelerated ageing. Science of the Total Environment, 2018, 643, 1571-1578.	3.9	57
41	Hydrometallurgical processes for heavy metals recovery from industrial sludges. Critical Reviews in Environmental Science and Technology, 2022, 52, 1022-1062.	6.6	57
42	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. Environmental Science & Technology, 2021, 55, 7167-7185.	4.6	57
43	Speciation and Reactivity of Uranium Products Formed during in Situ Bioremediation in a Shallow Alluvial Aquifer. Environmental Science & Technology, 2014, 48, 12842-12850.	4.6	56
44	Effects on Biotransformation, Oxidative Stress, and Endocrine Disruption in Rainbow Trout (Oncorhynchus mykiss) Exposed to Hydraulic Fracturing Flowback and Produced Water. Environmental Science & Technology, 2017, 51, 940-947.	4.6	54
45	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. Chemosphere, 2019, 233, 149-156.	4.2	54
46	Modified sequential extraction for biochar and petroleum coke: Metal release potential and its environmental implications. Bioresource Technology, 2017, 236, 106-110.	4.8	50
47	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. Chemical Engineering Journal, 2022, 428, 131967.	6.6	50
48	Change of the point of zero net proton charge (pHPZNPC) of clay minerals with ionic strength. Chemical Geology, 2018, 493, 458-467.	1.4	49
49	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. Environment International, 2019, 131, 104990.	4.8	49
50	Hydrogeological constraints on the formation of Palaeoproterozoic banded iron formations. Nature Geoscience, 2019, 12, 558-563.	5.4	49
51	Mobility of arsenic in soil amended with biochar derived from biomass with different lignin contents: Relationships between lignin content and dissolved organic matter leaching. Chemical Engineering Journal, 2020, 393, 124687.	6.6	49
52	Interaction of biochar stability and abiotic aging: Influences of pyrolysis reaction medium and temperature. Chemical Engineering Journal, 2021, 411, 128441.	6.6	49
53	Organo-Illite as a Low Permeability Sorbent to Retard Migration of Anionic Contaminants. Journal of Environmental Engineering, ASCE, 2002, 128, 583-587.	0.7	48
54	Cell surface reactivity of Synechococcus sp. PCC 7002: Implications for metal sorption from seawater. Geochimica Et Cosmochimica Acta, 2015, 169, 30-44.	1.6	48

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55	Modification of ordered mesoporous carbon for removal of environmental contaminants from aqueous phase: A review. Journal of Hazardous Materials, 2021, 418, 126266.	6.5	48
56	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. Critical Reviews in Environmental Science and Technology, 2022, 52, 2611-2660.	6.6	45
57	Arsenic bioaccumulation and biotransformation in aquatic organisms. Environment International, 2022, 163, 107221.	4.8	43
58	Using CO₂ as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. Environmental Science & Technology, 2020, 54, 6329-6343.	4.6	40
59	Acid-base properties of kaolinite, montmorillonite and illite at marine ionic strength. Chemical Geology, 2018, 483, 191-200.	1.4	39
60	Influence of Quaternary Ammonium on Sorption of Selected Metal Cations onto Clinoptilolite Zeolite. Journal of Environmental Quality, 2002, 31, 1106-1114.	1.0	37
61	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. Journal of Hazardous Materials, 2021, 415, 125650.	6.5	37
62	Selection criteria for oxidation method in total organic carbon measurement. Chemosphere, 2018, 199, 453-458.	4.2	36
63	Nontarget profiling of organic compounds in a temporal series of hydraulic fracturing flowback and produced waters. Environment International, 2019, 131, 104944.	4.8	36
64	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. Ecotoxicology and Environmental Safety, 2019, 180, 600-609.	2.9	35
65	Temporal Changes in Microbial Community Composition and Geochemistry in Flowback and Produced Water from the Duvernay Formation. ACS Earth and Space Chemistry, 2019, 3, 1047-1057.	1.2	31
66	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method. Science of the Total Environment, 2022, 815, 152922.	3.9	31
67	Comparison of nickel adsorption on biochars produced from mixed softwood and Miscanthus straw. Environmental Science and Pollution Research, 2018, 25, 14626-14635.	2.7	30
68	Application of surface complexation modeling to trace metals uptake by biochar-amended agricultural soils. Applied Geochemistry, 2018, 88, 103-112.	1.4	30
69	Adsorption characteristics of cesium on the clay minerals: Structural change under wetting and drying condition. Geoderma, 2019, 340, 49-54.	2.3	30
70	Projecting impacts of wildfire and climate change on streamflow, sediment, and organic carbon yields in a forested watershed. Journal of Hydrology, 2020, 590, 125403.	2.3	29
71	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. Environmental Sciences: Processes and Impacts, 2020, 22, 1790-1808.	1.7	29
72	The roles of suspended solids in persulfate/Fe2+ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. Chemical Engineering Journal, 2020, 388, 124243.	6.6	29

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73	Stabilization-based soil remediation should consider long-term challenges. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	28
74	Phytoplankton contributions to the trace-element composition of Precambrian banded iron formations. Bulletin of the Geological Society of America, 2018, 130, 941-951.	1.6	28
75	Biochar colloids and their use in contaminants removal. Biochar, 2019, 1, 151-162.	6.2	27
76	The impact of ionic strength on the proton reactivity of clay minerals. Chemical Geology, 2019, 529, 119294.	1.4	27
77	Characterization and implications of solids associated with hydraulic fracturing flowback and produced water from the Duvernay Formation, Alberta, Canada. Environmental Sciences: Processes and Impacts, 2019, 21, 242-255.	1.7	26
78	Adsorption characteristics of cesium onto calcium-silicate-hydrate in concrete powder and block. Chemosphere, 2020, 259, 127494.	4.2	26
79	Uncertainties in determining microbial biomass C using the chloroform fumigationâ€“extraction method. Chemical Geology, 2011, 280, 58-64.	1.4	25
80	Reusable magnetite nanoparticlesâ€“biochar composites for the efficient removal of chromate from water. Scientific Reports, 2020, 10, 19007.	1.6	25
81	Metal oxide sorbents for the sustainable recovery of lithium from unconventional resources. Applied Materials Today, 2020, 19, 100638.	2.3	25
82	Comparative Analysis of Hydraulic Fracturing Wastewater Practices in Unconventional Shale Development: Newspaper Coverage of Stakeholder Concerns and Social License to Operate. Sustainability, 2016, 8, 912.	1.6	24
83	Petrology and geochemistry of the Boolgeeda Iron Formation, Hamersley Basin, Western Australia. Precambrian Research, 2018, 316, 155-173.	1.2	24
84	Effect of Acidic Conditions on Surface Properties and Metal Binding Capacity of Clay Minerals. ACS Earth and Space Chemistry, 2019, 3, 2421-2429.	1.2	24
85	Clay minerals as a source of cadmium to estuaries. Scientific Reports, 2020, 10, 10417.	1.6	24
86	Long-Term in Situ Oxidation of Biogenic Uraninite in an Alluvial Aquifer: Impact of Dissolved Oxygen and Calcium. Environmental Science & Technology, 2015, 49, 7340-7347.	4.6	23
87	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. Science of the Total Environment, 2020, 718, 137281.	3.9	23
88	Lithium recovery from hydraulic fracturing flowback and produced water using a selective ion exchange sorbent. Chemical Engineering Journal, 2021, 426, 130713.	6.6	23
89	In vitro assessment of endocrine disrupting potential of organic fractions extracted from hydraulic fracturing flowback and produced water (HF-FPW). Environment International, 2018, 121, 824-831.	4.8	19
90	Understanding the effects of hydraulic fracturing flowback and produced water (FPW) to the aquatic invertebrate, Lumbriculus variegatus under various exposure regimes. Environmental Pollution, 2020, 259, 113889.	3.7	19

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91	The kaolinite shuttle links the Great Oxidation and Lomagundi events. Nature Communications, 2021, 12, 2944.	5.8	19
92	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. Environmental Sciences: Processes and Impacts, 2019, 21, 224-241.	1.7	18
93	The osmotic effect of hyper-saline hydraulic fracturing fluid on rainbow trout, Oncorhynchus mykiss. Aquatic Toxicology, 2019, 211, 1-10.	1.9	18
94	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
95	Removal of organic acids from water using biochar and petroleum coke. Environmental Technology and Innovation, 2016, 6, 141-151.	3.0	16
96	Heavy metal dissolution mechanisms from electrical industrial sludge. Science of the Total Environment, 2019, 696, 133922.	3.9	16
97	Assessment of impacts of diphenyl phosphate on groundwater and near-surface environments: Sorption and toxicity. Journal of Contaminant Hydrology, 2019, 221, 50-57.	1.6	16
98	Competitive adsorption of heavy metals by anaerobic ammonium-oxidizing (anammox) consortia. Chemosphere, 2020, 258, 127289.	4.2	16
99	Effect of fulvic acid co-precipitation on biosynthesis of Fe(III) hydroxysulfate and its adsorption of lead. Environmental Pollution, 2022, 295, 118669.	3.7	15
100	Experimental Measurement of Monovalent Cation Adsorption ontoBacillus subtilisCells. Geomicrobiology Journal, 2010, 27, 464-472.	1.0	14
101	Cell surface acid-base properties of the cyanobacterium Synechococcus : Influences of nitrogen source, growth phase and N:P ratios. Geochimica Et Cosmochimica Acta, 2016, 187, 179-194.	1.6	14
102	Cell surface characterization and trace metal adsorptive properties of anaerobic ammonium-oxidizing (anammox) consortia. Chemosphere, 2019, 221, 11-20.	4.2	13
103	Exposure to Hydraulic Fracturing Flowback Water Impairs Mahi-Mahi (Coryphaena) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Science & Technology, 2020, 54, 13579-13589.	4.6	13
104	Surface reactivity of the anaerobic phototrophic Fe(II)-oxidizing bacterium Rhodovulum iodosum: Implications for trace metal budgets in ancient oceans and banded iron formations. Chemical Geology, 2016, 442, 113-120.	1.4	12
105	A comparison of bulk versus laser ablation trace element analyses in banded iron formations: Insights into the mechanisms leading to compositional variability. Chemical Geology, 2019, 506, 197-224.	1.4	12
106	Potential of asphalt concrete as a source of trace metals. Environmental Geochemistry and Health, 2020, 42, 397-405.	1.8	12
107	Response of aquatic microbial communities and bioindicator modelling of hydraulic fracturing flowback and produced water. FEMS Microbiology Ecology, 2020, 96, .	1.3	12
108	Changes to hepatic nutrient dynamics and energetics in rainbow trout (Oncorhynchus mykiss) following exposure to and recovery from hydraulic fracturing flowback and produced water. Science of the Total Environment, 2021, 764, 142893.	3.9	12

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109	Hydraulic Fracturing Return Fluids from Offshore Hydrocarbon Extraction Present New Risks to Marine Ecosystems. Environmental Science & Technology, 2021, 55, 4199-4201.	4.6	12
110	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale developments: Regulatory regimes. Canadian Water Resources Journal, 2017, 42, 122-137.	0.5	11
111	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. Journal of Hazardous Materials, 2021, 420, 126528.	6.5	11
112	Measurements of bacterial mat metal binding capacity in alkaline and carbonate-rich systems. Chemical Geology, 2017, 451, 17-24.	1.4	10
113	Biogeochemistry of U, Ni, and As in two meromictic pit lakes at the Cluff Lake uranium mine, northern Saskatchewan. Canadian Journal of Earth Sciences, 2018, 55, 463-474.	0.6	10
114	Enhanced irreversible fixation of cesium by wetting and drying cycles in soil. Environmental Geochemistry and Health, 2019, 41, 149-157.	1.8	10
115	Colloidal transport mechanisms and sequestration of U, Ni, and As in meromictic mine pit lakes. Geochimica Et Cosmochimica Acta, 2019, 265, 292-312.	1.6	10
116	Assessment of snowmelt and groundwater-surface water dynamics in mountains, foothills, and plains regions in northern latitudes. Journal of Hydrology, 2022, 606, 127449.	2.3	10
117	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. Journal of Nuclear Materials, 2013, 433, 233-239.	1.3	9
118	Beam-induced oxidation of monomeric U(IV)Âspecies. Journal of Synchrotron Radiation, 2013, 20, 197-199.	1.0	9
119	Biochar-induced changes in metal mobility and uptake by perennial plants in a ferralsol of Brazilâ€™s Atlantic forest. Biochar, 2019, 1, 309-324.	6.2	9
120	A complex bioaccumulation story in flowback and produced water from hydraulic fracturing: The role of organic compounds in inorganic accumulation in Lumbriculus variegatus. Journal of Hazardous Materials, 2021, 414, 125525.	6.5	9
121	Characterizing Returning Polymers in Hydraulic-Fracturing Flowback and Produced Water: Implications for Colloid Formation (includes associated erratum). SPE Journal, 2021, 26, 563-590.	1.7	8
122	Suspended solids-associated toxicity of hydraulic fracturing flowback and produced water on early life stages of zebrafish (Danio rerio). Environmental Pollution, 2021, 287, 117614.	3.7	8
123	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 Daphnia magna. Science of the Total Environment, 2022, 807, 150986.	3.9	8
124	Application of Synchrotron X-ray Absorption Spectroscopy and Microscopy Techniques to the Study of Biogeochemical Processes. , 2019, , 238-261.		7
125	Adsorption of biologically critical trace elements to the marine cyanobacterium Synechococcus sp. PCC 7002: Implications for marine trace metal cycling. Chemical Geology, 2019, 525, 28-36.	1.4	7
126	Diopatra cupreaworm burrow parchment: a cautionary tale of infaunal surface reactivity. Lethaia, 2020, 53, 47-61.	0.6	7

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127	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. ACS ES&T Water, 2021, 1, 108-116.	2.3	7
128	Effect of temperature on phenanthrene accumulation from hydraulic fracturing flowback and produced water in rainbow trout (Oncorhynchus mykiss). Environmental Pollution, 2021, 272, 116411.	3.7	7
129	Particulate emissions from turbulent diffusion flames with entrained droplets: A laboratory simulation of gas flaring emissions. Journal of Aerosol Science, 2021, 157, 105807.	1.8	7
130	Pyrolyzed biomass-derived nanoparticles: a review of surface chemistry, contaminant mobility, and future research avenues to fill the gaps. Biochar, 2022, 4, .	6.2	7
131	Reduction of 2,4,6-Trinitrotoluene and Hexahydro-1,3,5-trinitro-1,3,5-triazine by Hydroxyl-Complexed Fe(II). Journal of Environmental Engineering, ASCE, 2008, 134, 937-943.	0.7	6
132	Cadmium bioaccumulates after acute exposure but has no effect on locomotion or shelter-seeking behaviour in the invasive green shore crab (Carcinus maenas). , 2017, 5, cox057.		5
133	Field- and Lab-Based Potentiometric Titrations of Microbial Mats from the Fairmont Hot Spring, Canada. Geomicrobiology Journal, 2017, 34, 851-863.	1.0	4
134	HYDROSCAPE: A new versatile software program for evaluating contaminant transport in groundwater. SoftwareX, 2017, 6, 261-266.	1.2	4
135	Electron donorâ€driven bacterial and archaeal community patterns along forest ring edges in Ontario, Canada. Environmental Microbiology Reports, 2018, 10, 663-672.	1.0	4
136	Applications of Fourier-transform Infrared Spectroscopy in Geomicrobiology. , 2019, , 288-313.		4
137	Biogeochemical Behavior of Metals Along Two Permeable Reactive Barriers in a Miningâ€Affected Wetland. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3536-3554.	1.3	4
138	Inhibition of naphthalene leaching from municipal carbonaceous waste by a magnetic organophilic clay. Journal of Hazardous Materials, 2019, 368, 578-583.	6.5	4
139	Unlocking the potential of hydraulic fracturing flowback and produced water for CO2 removal via mineral carbonation. Applied Geochemistry, 2022, 142, 105345.	1.4	4
140	Cost analysis of wastewater production from conventional and unconventional oil and gas wells. Fuel, 2022, 323, 124222.	3.4	4
141	Hydraulic properties of the Paskapoo Formation in west-central Alberta. Canadian Journal of Earth Sciences, 2017, 54, 883-892.	0.6	3
142	Potentiometric Titrations to Characterize the Reactivity of Geomicrobial Surfaces. , 2019, , 79-92.		3
143	Production of a carbonaceous sorbent from the CO2 pyrolysis of hydraulic fracturing flowback and produced water solids. Journal of Environmental Chemical Engineering, 2020, 8, 103862.	3.3	3
144	Surface reactivity of the cyanobacterium Synechocystis sp. PCC 6803 â€“ Implications for trace metals transport to the oceans. Chemical Geology, 2021, 562, 120045.	1.4	3

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145	Group versus individual exposure: Do methodological decisions in aquatic toxicology alter experimental results?. Science of the Total Environment, 2021, 764, 144288.	3.9	3
146	Trace Elemental Partitioning on Clays Derived From Hydrothermal Muds of the El Tatio Geyser Field, Chile. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021422.	1.4	3
147	Epoxidized linseed lipids as a durable and fast-curing alternative to drying oils. Progress in Organic Coatings, 2021, 159, 106406.	1.9	3
148	Effects of salinity on the leaching of ionic species from hydrocarbon target formations during hydraulic fracturing. Chemical Geology, 2022, 591, 120718.	1.4	3
149	Binding and transport of Cr(III) by clay minerals during the Great Oxidation Event. Earth and Planetary Science Letters, 2022, 584, 117503.	1.8	3
150	Response to Comment on â€œCompetitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approachâ€• Environmental Science & Technology, 2016, 50, 1634-1635.	4.6	2
151	Modeling the Surface Chemistry of Biochars. , 2019, , 59-72.		2
152	XAS characterization of nano-chromite particles precipitated on magnetite-biochar composites. Radiation Physics and Chemistry, 2020, 175, 108544.	1.4	2
153	In Situ Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxic Aquifer. ACS Earth and Space Chemistry, 2020, 4, 2018-2030.	1.2	2
154	Acid-base properties of Synechococcus-derived organic matter. Geochimica Et Cosmochimica Acta, 2021, 315, 89-100.	1.6	2
155	Complex impacts of hydraulic fracturing return fluids on soil microbial community respiration, structure and functional potentials. Environmental Microbiology, 2022, 24, 4108-4123.	1.8	2
156	Accelerating mineral carbonation in hydraulic fracturing flowback and produced water using CO2-rich gas. Applied Geochemistry, 2022, 143, 105380.	1.4	2
157	Biochar nanoparticles: interactions with and impacts on soil and water microorganisms. , 2022, , 139-154.		1
158	The Application of Isothermal Titration Calorimetry for Investigating Proton and Metal Interactions on Microbial Surfaces. , 2019, , 63-78.		0
159	Reply to Desmond F. Lascellesâ€™ comment on â€œTyler Warchola, Stefan V. Lalonde, Ernesto Pecoits, Konstantin von Gunten, Leslie J. Robbins, Daniel S. Alessi, Pascal Philippot, Kurt O. Konhauser. Petrology and geochemistry of the Boolgeeda iron formation, Hamersley Basin, Western Australia. Precambrian Research, (2018) 316: 155â€“173â€• Precambrian Research, 2019, 327, 363-365.	1.2	0
160	The influence of invertebrate faecal material on compositional heterogeneity, diagenesis and trace metal distribution in the Ogeechee River estuary, Georgia, USA. Sedimentology, 2021, 68, 788-804.	1.6	0