Nelson Belzile

List of Publications by Year
in descending order

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97	6,250	94269 37	66788 78
papers	citations	h-index	g-index

97	97	97	5012
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antimony in the environment: a review focused on natural waters. Earth-Science Reviews, 2002, 57, 125-176.	4.0	999
2	Antimony in the environment: a review focused on natural waters. Earth-Science Reviews, 2002, 59, 265-285.	4.0	558
3	Antimony in the environment: knowns and unknowns. Environmental Chemistry, 2009, 6, 95.	0.7	293
4	Oxidation of antimony (III) by amorphous iron and manganese oxyhydroxides. Chemical Geology, 2001, 174, 379-387.	1.4	251
5	A review on pyrrhotite oxidation. Journal of Geochemical Exploration, 2004, 84, 65-76.	1.5	250
6	Selenium and mercury in organisms: Interactions and mechanisms. Environmental Reviews, 2008, 16, 71-92.	2.1	245
7	Antimony in the environment: A review focused on natural waters. III. Microbiota relevant interactions. Earth-Science Reviews, 2007, 80, 195-217.	4.0	214
8	Testing readsorption of trace elements during partial chemical extractions of bottom sediments. Environmental Science & Technology, 1989, 23, 1015-1020.	4.6	200
9	Speciation and adsorption of arsenic on diagenetic iron oxyhydroxides. Limnology and Oceanography, 1991, 36, 1480-1485.	1.6	180
10	Thallium in the environment: A critical review focused on natural waters, soils, sediments and airborne particles. Applied Geochemistry, 2017, 84, 218-243.	1.4	149
11	The effect of selenium on mercury assimilation by freshwater organisms. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1-10.	0.7	135
12	Electron microscopy of aquatic colloids: Non-perturbing preparation of specimens in the field. Water Research, 1991, 25, 1333-1343.	5.3	112
13	Antagonistic effect of selenium on mercury assimilation by fish populations near Sudbury metal smelters?. Limnology and Oceanography, 2001, 46, 1814-1818.	1.6	95
14	Distribution and Early Diagenesis of Antimony Species in Sediments and Porewaters of Freshwater Lakes. Environmental Science & Technology, 2003, 37, 1163-1168.	4.6	93
15	Gut Sediments in a Burrowing Mayfly (Ephemeroptera, Hexagenia limbata): Their Contribution to Animal Trace Element Burdens, Their Removal, and the Efficacy of a Correction for Their Presence. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 451-456.	0.7	89
16	Human Exposure to Antimony: I. Sources and Intake. Critical Reviews in Environmental Science and Technology, 2011, 41, 1309-1373.	6.6	86
17	Tellurium in the environment: A critical review focused on natural waters, soils, sediments and airborne particles. Applied Geochemistry, 2015, 63, 83-92.	1.4	85
18	Antimony speciation at ultra trace levels using hydride generation atomic fluorescence spectrometry and 8-hydroxyquinoline as an efficient masking agent. Analytica Chimica Acta, 2001, 432, 293-302.	2.6	82

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19	Coagulation/sedimentation of submicron iron particles in a eutrophic lake. Water Research, 1995, 29, 617-632.	5.3	78
20	Early diagenetic behaviour of selenium in freshwater sediments. Applied Geochemistry, 2000, 15, 1439-1454.	1.4	78
21	Sediment trace metal profiles in lakes of Killarney Park, Canada. Environmental Pollution, 2004, 130, 239-248.	3.7	78
22	Natural attenuation processes applying to antimony: A study in the abandoned antimony mine in Goesdorf, Luxembourg. Science of the Total Environment, 2009, 407, 6205-6216.	3.9	73
23	High performance liquid chromatography coupled to atomic fluorescence spectrometry for the speciation of the hydride and chemical vapour-forming elements As, Se, Sb and Hg: A critical review. Analytica Chimica Acta, 2010, 671, 9-26.	2.6	73
24	Inhibition of pyrite oxidation by surface treatment. Science of the Total Environment, 1997, 196, 177-186.	3.9	72
25	Capture of arsenic by pyrite in near-shore marine sediments. Chemical Geology, 1986, 54, 279-281.	1.4	71
26	In situ collection of diagenetic iron and manganese oxyhydroxides from natural sediments. Nature, 1989, 340, 376-377.	13.7	68
27	Determination of mercury by continuous flow cold vapor atomic fluorescence spectrometry using micromolar concentration of sodium tetrahydroborate as reductant solution. Analyst, The, 2002, 127, 1541-1546.	1.7	61
28	Characterization of humic substances extracted from Canadian lake sediments. Canadian Journal of Chemistry, 1997, 75, 14-27.	0.6	59
29	Behaviour of Sb(V) in the presence of dissolved sulfide under controlled anoxic aqueous conditions. Chemical Geology, 2009, 262, 179-185.	1.4	58
30	Observations on the diagenetic behavior of arsenic in a deep coastal sediment. Biogeochemistry, 1986, 2, 359-376.	1.7	57
31	Adsorption of Cu 2+ on coal fly ash modified with functionalized mesoporous silica. Fuel, 2015, 156, 96-102.	3.4	54
32	Detoxification of selenite and mercury by reduction and mutual protection in the assimilation of both elements by Pseudomonas fluorescens. Science of the Total Environment, 2006, 367, 704-714.	3.9	51
33	Extraction of lithium from salt lake brine with triisobutyl phosphate in ionic liquid and kerosene. Chemical Research in Chinese Universities, 2015, 31, 621-626.	1.3	49
34	The passivation of pyrrhotite by surface coating. Chemosphere, 2005, 61, 659-667.	4.2	43
35	Extraction and determination of elemental selenium in sedimentsâ€"A comparative study. Analytica Chimica Acta, 2006, 577, 126-133.	2.6	41
36	Inverse relationships between selenium and mercury in tissues of young walleye (Stizosedion vitreum) from Canadian boreal lakes. Science of the Total Environment, 2010, 408, 1676-1683.	3.9	41

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37	A glove box for the fine-scale subsampling of sediment box cores. Sedimentology, 1986, 33, 147-150.	1.6	40
38	Adsorption behaviors of phenanthrene and bisphenol A in purple paddy soils amended with straw-derived DOM in the West Sichuan Plain of China. Ecotoxicology and Environmental Safety, 2019, 169, 737-746.	2.9	39
39	Application of photochemical reactions of Se in natural waters by hydride generation atomic fluorescence spectrometry. Analytica Chimica Acta, 2005, 545, 142-148.	2.6	38
40	Abiotic formation of elemental selenium and role of iron oxide surfaces. Chemosphere, 2009, 74, 1079-1084.	4.2	37
41	Whole-lake algal responses to a century of acidic industrial deposition on the Canadian Shield. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 483-493.	0.7	35
42	Photochemical behavior of inorganic and organic selenium compounds in various aqueous solutions. Analytica Chimica Acta, 2005, 545, 149-157.	2.6	34
43	Preventing oxidation of iron sulfide minerals by polyethylene polyamines. Minerals Engineering, 2006, 19, 19-27.	1.8	32
44	Biogeochemical Mechanisms of Selenium Exchange between Water and Sediments in Two Contrasting Lentic Environments. Environmental Science & Technology, 2011, 45, 2605-2612.	4.6	32
45	Sediment diffusive fluxes of Fe, Mn, and P in a eutrophic lake: Contribution from lateral vs bottom sediments. Aquatic Sciences, 1996, 58, 327-354.	0.6	30
46	Selenium Bioaccumulation in Freshwater Organisms and Antagonistic Effect against Mercury Assimilation. Environmental Bioindicators, 2009, 4, 203-221.	0.4	30
47	Determination of elemental sulfur in environmental samples by gas chromatography-mass spectrometry. Chemical Geology, 1997, 137, 195-200.	1.4	29
48	Selective adsorption of uranyl and potentially toxic metal ions at the core-shell MFe2O4-TiO2 (M=Mn,) Tj ETQq0 0 0 rgBT /Overlock 10 T	6.5	29
49	Effect of sulfide, selenite and mercuric mercury on the growth and methylation capacity of the sulfate reducing bacterium Desulfovibrio desulfuricans. Science of the Total Environment, 2013, 449, 373-384.	3.9	27
50	Valence properties of tellurium in different chemical systems and its determination in refractory environmental samples using hydride generation â€“ Atomic fluorescence spectroscopy. Analytica Chimica Acta, 2016, 905, 42-50.	2.6	27
51	Elemental Contaminants in Livers of Mute Swans on Lakes Erie and St. Clair. Archives of Environmental Contamination and Toxicology, 2011, 61, 677-687.	2.1	26
52	Human Exposure to Antimony. II. Contents in Some Human Tissues Often Used in Biomonitoring (Hair,) Tj ETQq0 0 0 rgBT /Overlock 10	6.6	26
53	Human Exposure to Antimony. IV. Contents in Human Blood. Critical Reviews in Environmental Science and Technology, 2013, 43, 2071-2105.	6.6	26
54	Human Exposure to Antimony. III. Contents in Some Human Excreted Biofluids (Urine, Milk, Saliva). Critical Reviews in Environmental Science and Technology, 2013, 43, 162-214.	6.6	26

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55	Proteomics of Desulfovibrio desulfuricans and X-ray absorption spectroscopy to investigate mercury methylation in the presence of selenium. Metallomics, 2014, 6, 465.	1.0	25
56	Low volume microwave digestion and direct determination of selenium in biological samples by hydride generation-atomic fluorescence spectrometry. Analytica Chimica Acta, 2010, 665, 123-128.	2.6	24
57	Enhanced kinetics and super selectivity toward Cs+ in multicomponent aqueous solutions: A robust Prussian blue analogue/polyvinyl chloride composite membrane. Environmental Research, 2020, 189, 109952.	3.7	24
58	Seasonal variations of arsenic at the sedimentâ€“water interface of Poyang Lake, China. Applied Geochemistry, 2014, 47, 170-176.	1.4	23
59	The competitive role of organic carbon and dissolved sulfide in controlling the distribution of mercury in freshwater lake sediments. Science of the Total Environment, 2008, 405, 226-238.	3.9	21
60	Simple and energy-saving modifications of coal fly ash to remove simultaneously six toxic metal cations from mine effluents. Journal of Environmental Chemical Engineering, 2018, 6, 5498-5509.	3.3	21
61	Distribution characteristics, potential contribution, and management strategy of crop straw and livestock-poultry manure in multi-ethnic regions of China: A critical evaluation. Journal of Cleaner Production, 2020, 274, 123174.	4.6	21
62	Arsenic speciation in surface waters and lake sediments in an abandoned mine site and field observations of arsenic eco-toxicity. Journal of Geochemical Exploration, 2019, 205, 106349.	1.5	20
63	Improvements of reliability for methylmercury determination in environmental samples. Analytica Chimica Acta, 2009, 633, 157-164.	2.6	18
64	Evidences of non-reactive mercuryâ€“selenium compounds generated from cultures of Pseudomonas fluorescens. Science of the Total Environment, 2011, 409, 1697-1703.	3.9	18
65	Microwave Digestion of Environmental and Natural Waters for Selenium Speciation. Analytical Chemistry, 2001, 73, 4711-4716.	3.2	16
66	Selenium Accumulation in Sea Ducks Wintering at Lake Ontario. Archives of Environmental Contamination and Toxicology, 2010, 58, 854-862.	2.1	15
67	Utilization of coal fly ash and drinking water sludge to remove anionic As(V), Cr(VI), Mo(VI) and Se(IV) from mine waters. Journal of Environmental Chemical Engineering, 2018, 6, 2470-2479.	3.3	15
68	Interference of Lithium in Measuring Magnesium by Complexometry: Discussions of the Mechanism. Journal of Chemistry, 2013, 2013, 1-4.	0.9	14
69	Selenium profiles in the sediments of the Laurentian Trough (northwest North Atlantic). Chemical Geology, 1988, 68, 99-103.	1.4	13
70	H2S Protects against Cardiac Cell Hypertrophy through Regulation of Selenoproteins. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-12.	1.9	13
71	Returning excrement from livestock, poultry, and humans to farmland as nutrient resources for crop growth: Assessment of rural China. Chemical Engineering Research and Design, 2021, 146, 412-423.	2.7	13
72	Quantitative elemental and structural analysis of dissolved organic carbon fractions from lakes near Sudbury, Ontario. Canadian Journal of Chemistry, 1996, 74, 2460-2470.	0.6	12

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73	The speciation analysis of iodate and iodide in high salt brine by high performance liquid chromatography and inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 1374-1379.	1.6	11
74	Profiles of dissolved and acid-leachable selenium in a sediment core from the lower St. Lawrence estuary. Marine Chemistry, 1988, 24, 307-314.	0.9	10
75	Synthesis, identification and chemical features of high-purity trimethylselenonium iodide. Journal of Sulfur Chemistry, 2010, 31, 373-385.	1.0	10
76	Adsorption of Cadmium on Degraded Soils Amended with Maize-Stalk-Derived Biochar. International Journal of Environmental Research and Public Health, 2018, 15, 2331.	1.2	10
77	Antimony in the Environment: A Review Focused on Natural Waters. Part 2. Relevant Solution Chemistry. ChemInform, 2003, 34, no.	0.1	8
78	Effects of dietary selenium on the health and survival of captive wintering lesser scaup. Environmental Pollution, 2013, 175, 8-15.	3.7	8
79	Hydrological and biogeochemical controls governing the speciation and accumulation of selenium in a wetland influenced by mine drainage. Environmental Toxicology and Chemistry, 2018, 37, 1824-1838.	2.2	8
80	Preparation of a new high-performance calcium-based desulfurizer using a steam jet mill. Journal of Hazardous Materials, 2020, 389, 121914.	6.5	8
81	Hepatic Concentrations of Inorganic Contaminants and Their Relationships with Nutrient Reserves in Autumn-Migrant Common Loons at Lake Erie. Archives of Environmental Contamination and Toxicology, 2012, 62, 704-713.	2.1	7
82	Solvent Extraction of Tellurium from Chloride Solutions Using Tri-n-butyl Phosphate: Conditions and Thermodynamic Data. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	7
83	Microwave Digestion of Fish Tissues and Determination of Cu, Se and Hg by Atomic Absorption Spectrometry. International Journal of Environmental Analytical Chemistry, 1998, 72, 205-216.	1.8	5
84	Pyrolysis gas chromatography - mass spectrometry of humic substances extracted from Canadian lake sediments. Canadian Journal of Chemistry, 2000, 78, 51-63.	0.6	5
85	Effects of elevated selenium on body condition, oxidative stress, and organ health in greater scaup wintering at Lake Ontario. Wildlife Society Bulletin, 2012, 36, 506-511.	1.6	5
86	Rates and processes affecting As speciation and mobility in lake sediments during aging. Journal of Environmental Sciences, 2018, 66, 338-347.	3.2	5
87	Competitive Adsorption of Uranyl and Toxic Trace Metal Ions at MFe2O4-montmorillonite (M = Mn, Fe,) Tj ETQq1 1 0.784314 rgBT /O	0.6	5
88	The geochemical behavior of trace metals and nutrients in submerged sediments of the Three Gorges Reservoir and a critical review on risk assessment methods. Environmental Science and Pollution Research, 2021, 28, 33400-33415.	2.7	5
89	A simplified automated chelometric method for the determination of sulfate in interstitial water and seawater. Marine Chemistry, 1980, 9, 237-241.	0.9	4
90	Inorganic Contaminants, Nutrient Reserves and Molt Intensity in Autumn Migrant Red-Necked Grebes (Podiceps grisegena) at Georgian Bay. Archives of Environmental Contamination and Toxicology, 2015, 69, 399-410.	2.1	4

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91	Validation of an updated fractionation and indirect speciation procedure for inorganic arsenic in oxic and suboxic soils and sediments. Environmental Pollution, 2016, 219, 1102-1108.	3.7	4
92	Biosynthesized magnetite-perovskite (XFe2O4-BiFeO3) interfaces for toxic trace metal removal from aqueous solution. Ceramics International, 2018, 44, 21210-21220.	2.3	4
93	Seasonal variations of phosphorus species in the Tuohe River, China. Part I. Sediments. Journal of Oceanology and Limnology, 2018, 36, 1950-1961.	0.6	3
94	Effects of a decade of selenium emission reductions on mercury accumulation in aquatic biota in the Sudbury region of Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 848-856.	0.7	2
95	Seasonal Variations of Phosphorus Species in the Overlying and Pore Waters of the Tuohe River, China. Journal of Chemistry, 2019, 2019, 1-9.	0.9	1
96	Historic records on mineralogical and chemical compositions of a long sediment core from the Three Gorges Reservoir and implications for future studies. Environmental Earth Sciences, 2021, 80, 1.	1.3	1
97	Hydrochemistry of the rimouski river, a tributary to the St. Lawrence estuary. Marine Chemistry, 1983, 12, 231.	0.9	0