

Jean-Francois Blais

List of Publications by Citations

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112
papers

2,083
citations

26
h-index

39
g-index

113
ext. papers

2,350
ext. citations

5.6
avg, IF

5.13
L-index

#	Paper	IF	Citations
112	Organics removal in oily bilgewater by electrocoagulation process. <i>Journal of Hazardous Materials</i> , 2008 , 151, 446-55	12.8	99
111	Recovery of Zn (II), Mn (II), Cd (II) and Ni (II) from the unsorted spent batteries using solvent extraction, electrodeposition and precipitation methods. <i>Journal of Cleaner Production</i> , 2017 , 148, 233-244	10.3	85
110	Metals removal from soil, fly ash and sewage sludge leachates by precipitation and dewatering properties of the generated sludge. <i>Journal of Hazardous Materials</i> , 2009 , 172, 1372-82	12.8	79
109	Review of Electrochemical Technologies for Environmental Applications. <i>Recent Patents on Engineering</i> , 2007 , 1, 257-272	0.3	78
108	Selective recovery of metals in leachate from chromated copper arsenate treated wastes using electrochemical technology and chemical precipitation. <i>Hydrometallurgy</i> , 2009 , 96, 318-326	4	67
107	A new process for nickel ammonium disulfate production from ash of the hyperaccumulating plant <i>Alyssum murale</i> . <i>Science of the Total Environment</i> , 2012 , 423, 111-9	10.2	66
106	PAH removal from spiked municipal wastewater sewage sludge using biological, chemical and electrochemical treatments. <i>Chemosphere</i> , 2007 , 68, 1143-52	8.4	59
105	Treatment technologies used for the removal of As, Cr, Cu, PCP and/or PCDD/F from contaminated soil: A review. <i>Journal of Hazardous Materials</i> , 2017 , 333, 194-214	12.8	58
104	Selective recovery of Cr and Cu in leachate from chromated copper arsenate treated wood using chelating and acidic ion exchange resins. <i>Journal of Hazardous Materials</i> , 2009 , 169, 1099-105	12.8	57
103	Decolourization of dye-containing effluent using mineral coagulants produced by electrocoagulation. <i>Journal of Hazardous Materials</i> , 2008 , 155, 153-63	12.8	57
102	Transformation of red mud from aluminium industry into a coagulant for wastewater treatment. <i>Hydrometallurgy</i> , 2008 , 92, 16-25	4	55
101	Co-culture for lipid production: Advances and challenges. <i>Biomass and Bioenergy</i> , 2016 , 92, 20-30	5.3	54
100	Recovery of metals from a mixture of various spent batteries by a hydrometallurgical process. <i>Journal of Environmental Management</i> , 2016 , 181, 95-107	7.9	54
99	Optimization of a chemical leaching process for decontamination of CCA-treated wood. <i>Journal of Hazardous Materials</i> , 2009 , 169, 136-45	12.8	45
98	Effectiveness of soil washing, nanofiltration and electrochemical treatment for the recovery of metal ions coming from a contaminated soil. <i>Water Research</i> , 2008 , 42, 1943-52	12.5	42
97	Electrochemical treatment of bisphenol-A using response surface methodology. <i>Journal of Applied Electrochemistry</i> , 2012 , 42, 95-109	2.6	39
96	How to direct the fatty acid biosynthesis towards polyhydroxyalkanoates production?. <i>Biomass and Bioenergy</i> , 2015 , 74, 268-279	5.3	37

95	Parameters optimization for direct flue gas CO ₂ capture and sequestration by aqueous mineral carbonation using activated serpentinite based mining residue. <i>Applied Geochemistry</i> , 2014 , 50, 66-73	3.5	37
94	Technical & economic evaluation of a mineral carbonation process using southern Québec mining wastes for CO ₂ sequestration of raw flue gas with by-product recovery. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 50, 147-157	4.2	35
93	Valorization of raw glycerol and crustacean waste into value added products by <i>Yarrowia lipolytica</i> . <i>Bioresource Technology</i> , 2017 , 243, 57-68	11	34
92	Amphoteric Surfactants for PAH and Lead Polluted-Soil Treatment Using Flotation. <i>Water, Air, and Soil Pollution</i> , 2009 , 197, 381-393	2.6	34
91	Low frequency ultrasound-assisted leaching of sewage sludge for toxic metal removal, dewatering and fertilizing properties preservation. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 109-117	8.9	30
90	Recovery potential of rare earth elements from mining and industrial residues: A review and cases studies. <i>Journal of Geochemical Exploration</i> , 2021 , 221, 106699	3.8	30
89	Removal of bisphenol-A from spiked synthetic effluents using an immersed membrane activated sludge process. <i>Separation and Purification Technology</i> , 2012 , 87, 101-109	8.3	29
88	Experimental assessment of an innovative process for simultaneous PAHs and Pb removal from polluted soils. <i>Science of the Total Environment</i> , 2009 , 407, 5402-10	10.2	28
87	Heavy Metals Removal from Acidic and Saline Soil Leachate Using Either Electrochemical Coagulation or Chemical Precipitation. <i>Journal of Environmental Engineering, ASCE</i> , 2006 , 132, 545-554	2	27
86	Aqueous mineral carbonation of serpentinite on a pilot scale: The effect of liquid recirculation on CO ₂ sequestration and carbonate precipitation. <i>Applied Geochemistry</i> , 2016 , 67, 21-29	3.5	25
85	Application of a CCA-treated wood waste decontamination process to other copper-based preservative-treated wood after disposal. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1880-7	12.8	25
84	Assessment of a sewage sludge treatment on cadmium, copper and zinc bioavailability in barley, ryegrass and earthworms. <i>Environmental Pollution</i> , 2007 , 145, 41-50	9.3	25
83	Chemical Leaching of Antimony and Other Metals from Small Arms Shooting Range Soil. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	24
82	Toxic Metal Removal from Polluted Soil by Acid Extraction. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 3739-3755	2.3	23
81	Decontamination of metals and polycyclic aromatic hydrocarbons from slag-polluted soil. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2633-48	2.6	21
80	Magnetic separation of serpentinite mining residue as a precursor to mineral carbonation. <i>International Journal of Mineral Processing</i> , 2015 , 140, 19-25		19
79	Treatment of contaminated soil leachate by precipitation, adsorption and ion exchange. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 977-985	6.8	19
78	Comparison between Fenton oxidation process and electrochemical oxidation for PAH removal from an amphoteric surfactant solution. <i>Journal of Applied Electrochemistry</i> , 2010 , 40, 1493-1510	2.6	18

77	Degradation of polycyclic aromatic hydrocarbons in different synthetic solutions by Fenton's oxidation. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 116-127	2.6	17
76	Study of the factors influencing the metals solubilisation from a mixture of waste batteries by response surface methodology. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 3167-3179	2.6	17
75	Recovery of zinc and manganese from pyrometallurgy sludge by hydrometallurgical processing. <i>Journal of Cleaner Production</i> , 2017 , 168, 311-321	10.3	17
74	Comparative study of dewatering characteristics of metal precipitates generated during treatment synthetic polymetallic and AMD solutions. <i>Hydrometallurgy</i> , 2009 , 98, 247-256	4	17
73	Different options for metal recovery after sludge decontamination at the Montreal Urban Community wastewater treatment plant. <i>Water Science and Technology</i> , 2002 , 46, 33-41	2.2	17
72	Demonstration of the efficiency and robustness of an acid leaching process to remove metals from various CCA-treated wood samples. <i>Journal of Environmental Management</i> , 2014 , 132, 197-206	7.9	16
71	Treatment of Arsenic-, Chromium-, Copper- and Pentachlorophenol-Polluted Soil Using Flotation. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	16
70	Treatment of metal-loaded soil leachates by electrocoagulation. <i>Separation and Purification Technology</i> , 2009 , 67, 110-116	8.3	16
69	Decontamination d'une cellule pilote de sols pollués en métaux toxiques par des procédés miniers et lixiviation chimique. <i>Journal of Environmental Engineering and Science</i> , 2007 , 6, 53-64	0.8	16
68	Optimization of Copper Removal from ACQ-, CA-, and MCQ-Treated Wood Using an Experimental Design Methodology. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 576-587	2	15
67	Coupling extraction-flotation with surfactant and electrochemical degradation for the treatment of PAH contaminated hazardous wastes. <i>Journal of Hazardous Materials</i> , 2009 , 170, 1218-26	12.8	15
66	A decontamination process to remove metals and stabilise Montreal sewage sludge. <i>Scientific World Journal, The</i> , 2002 , 2, 1121-6	2.2	15
65	Polycyclic Aromatic Hydrocarbon Oxidation from Concentrates Issued from an Attrition Process of Polluted Soil Using the Fenton Reagent and Permanganate. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	14
64	Comparison of different interpolation methods and sequential Gaussian simulation to estimate volumes of soil contaminated by As, Cr, Cu, PCP and dioxins/furans. <i>Environmental Pollution</i> , 2019 , 252, 409-419	9.3	14
63	Design and performance of a pilot-scale equipment for CCA-treated wood remediation. <i>Separation and Purification Technology</i> , 2012 , 85, 90-95	8.3	14
62	Pilot-scale investigation of the robustness and efficiency of a copper-based treated wood wastes recycling process. <i>Journal of Hazardous Materials</i> , 2013 , 261, 277-85	12.8	14
61	Decontamination of metals, pentachlorophenol, and polychlorinated dibenzo-p-dioxins and dibenzofurans polluted soil in alkaline conditions using an amphoteric biosurfactant. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 177-86	2.6	14
60	Remediation of inorganic contaminants and polycyclic aromatic hydrocarbons from soils polluted by municipal solid waste incineration residues. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 1983-95	2.6	14

59	Performance of Sulfate-reducing Passive Bioreactors for the Removal of Cd and Zn from Mine Drainage in a Cold Climate. <i>Mine Water and the Environment</i> , 2018 , 37, 42-55	2.4	13
58	Influence of Organic Carbon Sources on Metal Removal from Mine Impacted Water Using Sulfate-Reducing Bacteria Bioreactors in Cold Climates. <i>Mine Water and the Environment</i> , 2019 , 38, 104-118	2.4	12
57	Understanding the Effect of Attrition Scrubbing on the Efficiency of Gravity Separation of Six Inorganic Contaminants. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	12
56	Remediation of Contaminated Dredged Sediments Using Physical Separation Techniques. <i>Soil and Sediment Contamination</i> , 2014 , 23, 932-953	3.2	12
55	In situ reactive oxygen species production for tertiary wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7025-36	5.1	12
54	Factors influencing the Zn and Mn extraction from pyrometallurgical sludge in the steel manufacturing industry. <i>Journal of Environmental Management</i> , 2015 , 158, 48-54	7.9	11
53	Laboratory-Scale Flotation Process for Treatment of Soils Contaminated with Both PAH and Lead. <i>Journal of Environmental Engineering, ASCE</i> , 2010 , 136, 1063-1074	2	10
52	Assessment of the leaching potential of flotation tailings from rare earth mineral extraction in cold climates. <i>Science of the Total Environment</i> , 2020 , 732, 139225	10.2	9
51	Optimization of arsenic and pentachlorophenol removal from soil using an experimental design methodology. <i>Journal of Soils and Sediments</i> , 2013 , 13, 1189-1200	3.4	9
50	Chemical Leaching of Metals from Wastewater Sludge: Comparative Study by Use of Three Oxidizing Agents [H ₂ O ₂ , FeCl ₃ , and Fe ₂ (SO ₄) ₃]. <i>Water Environment Research</i> , 2009 , 81, 523-531	2.8	9
49	Bioproduction of ferric sulfate used during heavy metals removal from sewage sludge. <i>Journal of Environmental Quality</i> , 2005 , 34, 816-24	3.4	9
48	Optimized indium solubilization from LCD panels using HSO leaching. <i>Waste Management</i> , 2020 , 114, 53-61	8.6	8
47	Combined column and cell flotation process for the treatment of PAH contaminated hazardous wastes produced by an aluminium production plant. <i>Journal of Hazardous Materials</i> , 2009 , 165, 394-407	12.8	8
46	Monoethanolamine extraction of copper-preserved-treated wood and reuse of the extract for wood preservation. <i>Wood Science and Technology</i> , 2014 , 48, 393-409	2.5	7
45	Decontamination of sludge by the METIX-AC process. Part II: effects on maize growth and bioaccumulation of metals. <i>Bioresource Technology</i> , 2008 , 99, 1450-64	11	7
44	Pilot-Scale Decontamination of Small-Arms Shooting Range Soil Polluted with Copper, Lead, Antimony, and Zinc by Acid and Saline Leaching. <i>Journal of Environmental Engineering, ASCE</i> , 2015 , 141, 04014054	2	6
43	Removal of macro-pollutants in oily wastewater obtained from soil remediation plant using electro-oxidation process. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 7748-7757	5.1	6
42	Magnetic and density characteristics of a heavily polluted soil with municipal solid waste incinerator residues: Significance for remediation strategies. <i>International Journal of Mineral Processing</i> , 2016 , 149, 119-126		6

41	Simultaneous removal of Cu and PAHs from dredged sediments using flotation. <i>Journal of Soils and Sediments</i> , 2013 , 13, 1502-1514	3.4	6
40	Counter-current acid leaching process for copper azole treated wood waste. <i>Environmental Technology (United Kingdom)</i> , 2012 , 33, 2111-8	2.6	6
39	Decontamination of sludge by the METIX-AC process. Part I: effects on sludge quality and leaching of chemicals. <i>Bioresource Technology</i> , 2008 , 99, 1433-49	11	6
38	Removal of lead in APCR leachates from municipal solid waste incinerator using peat moss in a batch counter-current sorption process. <i>Hydrometallurgy</i> , 2005 , 80, 232-240	4	6
37	A comprehensive review on current technologies for removal of endocrine disrupting chemicals from wastewaters. <i>Environmental Research</i> , 2021 , 207, 112196	7.9	6
36	Hydrometallurgical Process and Economic Evaluation for Recovery of Zinc and Manganese from Spent Alkaline Batteries. <i>Metals</i> , 2020 , 10, 1175	2.3	6
35	Bioleaching of Uranium Tailings as Secondary Sources for Rare Earth Elements Production. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 302	2.4	6
34	Techno-economic assessment of an hydrometallurgical process to simultaneously remove As, Cr, Cu, PCP and PCDD/F from contaminated soil. <i>Journal of Environmental Management</i> , 2020 , 263, 110371	7.9	5
33	Study of factors involved in the gravimetric separation process to treat soil contaminated by municipal solid waste. <i>Journal of Environmental Management</i> , 2018 , 209, 23-36	7.9	5
32	Copper extraction and recovery from alkaline copper quaternary and copper azole treated wood using sulfuric acid leaching and ion exchange or electrodeposition. <i>Journal of Cleaner Production</i> , 2021 , 279, 123687	10.3	5
31	Determination of critical operational conditions favoring sulfide production from domestic wastewater treated by a sulfur-utilizing denitrification process. <i>Journal of Environmental Management</i> , 2017 , 198, 16-23	7.9	4
30	Prediction of physical separation of metals from soils contaminated with municipal solid waste ashes and metallurgical residues. <i>Waste Management</i> , 2019 , 93, 138-152	8.6	4
29	Geochemical behavior and stabilization of spent sulfate-reducing biofilter mixtures for treatment of acid mine drainage. <i>Science of the Total Environment</i> , 2020 , 718, 137394	10.2	4
28	Removal of toxic elements from wastewater generated in the decontamination of CCA-treated Eucalyptus sp. and Pinus canadense wood. <i>Journal of Material Cycles and Waste Management</i> , 2018 , 20, 1299-1309	3.4	4
27	Pilot-Scale Decontamination of Soil Polluted with As, Cr, Cu, PCP, and PCDDF by Attrition and Alkaline Leaching. <i>Journal of Environmental Engineering, ASCE</i> , 2017 , 143, 04017055	2	4
26	Influence of Soil Parameters on the Efficiency of the Attrition Process to Remove Metals, PCP, Dioxins and Furans from Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	4
25	Décontamination de sols pollués par les hydrocarbures aromatiques polycycliques par biodégradation en présence de substrats organiques supplémentaires. <i>Journal of Environmental Engineering and Science</i> , 2008 , 7, 467-479	0.8	4
24	Performance of a Semi-passive Sulfate-reducing Bioreactor for Acid Mine Drainage Treatment and Prediction of Environmental Behavior of Post-treatment Residues. <i>Mine Water and the Environment</i> , 2020 , 39, 769-784	2.4	4

23	Cleanup of sewage sludge spiked with Cd, Cu, and Zn: Sludge quality and distribution of metals in the "soil-plant-water" system. <i>Chemosphere</i> , 2021 , 267, 129223	8.4	4
22	Impact of particle size in serpentine thermal treatment: Implications for serpentine dissolution in aqueous-phase using CO ₂ in flue gas conditions. <i>Applied Clay Science</i> , 2019 , 182, 105286	5.2	3
21	Removal of Potential Toxic Inorganic and Organic Compounds from Contaminated Soils by Alkaline Leaching with Surfactant. <i>Soil and Sediment Contamination</i> , 2019 , 28, 513-527	3.2	3
20	Nitroglycerin degradation mediated by soil organic carbon under aerobic conditions. <i>Journal of Contaminant Hydrology</i> , 2014 , 166, 52-63	3.9	3
19	Study of an Amphoteric Surfactant in a Soil Decontamination Process Using ANS Enhanced Fluorescence: Micellar Behavior and Dosing in Synthetic and Soil Solutions. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 337-349	2.6	3
18	Counter-current acid leaching process for the removal of Cu, Pb, Sb and Zn from shooting range soil. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2377-87	2.6	3
17	Optimizing removal of arsenic, chromium, copper, pentachlorophenol and polychlorodibenzo-dioxins/furans from the 1-4 mm fraction of polluted soil using an attrition process. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 1862-1877	2.6	3
16	Counter-Current Attrition Process (CCAP) to Remove Metals, Pentachlorophenol (PCP), Dioxins and Furans (PCDDF) from the 1-4-mm Fraction of Contaminated Soil. <i>Soil and Sediment Contamination</i> , 2017 , 26, 636-650	3.2	3
15	Improvement of a three-step process for the treatment of aluminium hazardous wastes containing PAHs (benzo[b,j,k]fluoranthene and chrysene) and fluoride. <i>Environmental Technology (United Kingdom)</i> , 2011 , 33, 1883-93	2.6	2
14	Assessment of sulfide production risk in soil during the infiltration of domestic wastewater treated by a sulfur-utilizing denitrification process. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 19071-83	5.1	2
13	Practical Aspects and Case Studies of Industrial Scale Fermentation 2018 , 267-298		2
12	Optimization of PAHs Oxidation from a Concentrate of Soil Attrition Using Potassium Permanganate. <i>Soil and Sediment Contamination</i> , 2017 , 26, 605-622	3.2	1
11	Effect of grain size on the bacterial oxidation of a refractory gold sulfide concentrate and its dissolution by cyanidation. <i>Minerals Engineering</i> , 2022 , 176, 107360	4.9	1
10	Impact of freeze-thaw on the behaviour of flotation tailings from a rare earth deposit. <i>Applied Geochemistry</i> , 2021 , 135, 105106	3.5	1
9	Feasibility of a Mineral Carbonation Technique Using Iron-Silicate Mining Waste by Direct Flue Gas CO ₂ Capture and Cation Complexation Using 2,2'-Bipyridine. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 343 ^{2.4}	2.4	1
8	Recovery of indium from acidic leach solutions of spent LCD panels using ion exchange. <i>Hydrometallurgy</i> , 2022 , 210, 105845	4	1
7	Pre-concentration of fluorite from a rare earth element carbonatite deposit through the combination of magnetic separation and leaching. <i>Minerals Engineering</i> , 2021 , 174, 106998	4.9	0
6	Aqueous mineral carbonation of Fe rich olivine by cation complexation using 2,2'-bipyridine; concept validation and parameters optimization. <i>Applied Geochemistry</i> , 2021 , 131, 105029	3.5	0

- 5 Combining Sequential Gaussian Simulation with Linear Regression to Develop Rehabilitation Strategies Using a Hydrometallurgical Process to Simultaneously Remove Metals, PCP, and PCDD/F from a Contaminated Soil. *Soil and Sediment Contamination*, **2021**, 30, 275-291 3.2
- 4 Effect of cleanup of spiked sludge on corn growth biosorption and metal leaching. *Emerging Contaminants*, **2021**, 7, 77-87 5.8
- 3 Stabilization and Management of Sulfate-Reducing Bioreactor Residues After Acid Mine Drainage Treatment. *Water, Air, and Soil Pollution*, **2021**, 232, 1 2.6
- 2 Mass balance study of a multistage process for the purification of a fluorspar by-product from a rare earth element carbonatite deposit. *Minerals Engineering*, **2021**, 171, 107122 4.9
- 1 Behaviour of flotation tailings from a rare earth element deposit at high salinity. *Journal of Environmental Management*, **2021**, 300, 113773 7.9