

Jean-François Blais

List of Publications by Year in descending order

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111
papers

2,714
citations

172207

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docs citations

113
times ranked

2875
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on current technologies for removal of endocrine disrupting chemicals from wastewaters. <i>Environmental Research</i> , 2022, 207, 112196.	3.7	55
2	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.	1.8	6
3	Recovery of indium from acidic leach solutions of spent LCD panels using ion exchange. <i>Hydrometallurgy</i> , 2022, 210, 105845.	1.8	14
4	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.	4.2	8
5	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.	1.5	80
6	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.	4.6	8
7	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. <i>Soil and Sediment Contamination</i> , 2021, 30, 275-291.	1.1	0
8	Effect of cleanup of spiked sludge on corn growth biosorption and metal leaching. <i>Emerging Contaminants</i> , 2021, 7, 77-87.	2.2	0
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.	0.8	11
10	Bioleaching of Uranium Tailings as Secondary Sources for Rare Earth Elements Production. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 302.	0.8	19
11	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.	1.8	7
12	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.	1.4	3
13	Stabilization and Management of Sulfate-Reducing Bioreactor Residues After Acid Mine Drainage Treatment. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	2
14	Mass balance study of a multistage process for the purification of a fluorspar by-product from a rare earth element carbonatite deposit. <i>Minerals Engineering</i> , 2021, 171, 107122.	1.8	0
15	Behaviour of flotation tailings from a rare earth element deposit at high salinity. <i>Journal of Environmental Management</i> , 2021, 300, 113773.	3.8	0
16	Impact of freeze-thaw on the behaviour of flotation tailings from a rare earth deposit. <i>Applied Geochemistry</i> , 2021, 135, 105106.	1.4	3
17	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.	0.9	7
18	Hydrometallurgical Process and Economic Evaluation for Recovery of Zinc and Manganese from Spent Alkaline Batteries. <i>Metals</i> , 2020, 10, 1175.	1.0	15

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19	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.	3.8	6
20	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.	3.9	10
21	Optimized indium solubilization from LCD panels using H ₂ SO ₄ leaching. <i>Waste Management</i> , 2020, 114, 53-61.	3.7	18
22	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.	3.9	7
23	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.	1.1	4
24	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.	2.6	10
25	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.	0.9	25
26	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.	3.7	22
27	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.	3.7	5
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.	1.6	4
29	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.	2.7	8
30	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.	3.8	5
31	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.	0.9	19
32	Degradation of polycyclic aromatic hydrocarbons in different synthetic solutions by Fenton's oxidation. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 116-127.	1.2	22
33	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.	4.6	113
34	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.	6.5	79
35	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.	1.2	23
36	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.	1.1	18

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37	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.	3.8	4
38	Valorization of raw glycerol and crustacean waste into value added products by <i>Yarrowia lipolytica</i> . <i>Bioresource Technology</i> , 2017, 243, 57-68.	4.8	40
39	Optimization of PAHs Oxidation from a Concentrate of Soil Attrition Using Potassium Permanganate. <i>Soil and Sediment Contamination</i> , 2017, 26, 605-622.	1.1	2
40	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.	0.7	4
41	Recovery of zinc and manganese from pyrometallurgy sludge by hydrometallurgical processing. <i>Journal of Cleaner Production</i> , 2017, 168, 311-321.	4.6	25
42	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.	1.1	4
43	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.	1.2	3
44	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.	1.1	5
45	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.	2.3	48
46	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, 19071-19083.	2.7	3
47	Co-culture for lipid production: Advances and challenges. <i>Biomass and Bioenergy</i> , 2016, 92, 20-30.	2.9	80
48	Recovery of metals from a mixture of various spent batteries by a hydrometallurgical process. <i>Journal of Environmental Management</i> , 2016, 181, 95-107.	3.8	73
49	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.	2.6	7
50	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.	1.4	30
51	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, 1983-1995.	1.2	14
52	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.	3.8	15
53	In situ reactive oxygen species production for tertiary wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7025-7036.	2.7	16
54	How to direct the fatty acid biosynthesis towards polyhydroxyalkanoates production?. <i>Biomass and Bioenergy</i> , 2015, 74, 268-279.	2.9	45

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55	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, .	0.7	9
56	Magnetic separation of serpentinite mining residue as a precursor to mineral carbonation. <i>International Journal of Mineral Processing</i> , 2015, 140, 19-25.	2.6	21
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.	1.1	14
58	Treatment of contaminated soil leachate by precipitation, adsorption and ion exchange. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 977-985.	3.3	30
59	Decontamination of metals, pentachlorophenol, and polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofurans polluted soil in alkaline conditions using an amphoteric biosurfactant. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 177-186.	1.2	16
60	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.	1.4	9
61	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.	1.4	49
62	Remediation of Contaminated Dredged Sediments Using Physical Separation Techniques. <i>Soil and Sediment Contamination</i> , 2014, 23, 932-953.	1.1	13
63	Nitroglycerin degradation mediated by soil organic carbon under aerobic conditions. <i>Journal of Contaminant Hydrology</i> , 2014, 166, 52-63.	1.6	3
64	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.	3.8	17
65	Simultaneous removal of Cu and PAHs from dredged sediments using flotation. <i>Journal of Soils and Sediments</i> , 2013, 13, 1502-1514.	1.5	7
66	Treatment of Arsenic-, Chromium-, Copper- and Pentachlorophenol-Polluted Soil Using Flotation. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	19
67	Optimization of arsenic and pentachlorophenol removal from soil using an experimental design methodology. <i>Journal of Soils and Sediments</i> , 2013, 13, 1189-1200.	1.5	10
68	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.	3.8	30
69	Chemical Leaching of Antimony and Other Metals from Small Arms Shooting Range Soil. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	28
70	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, 277-285.	6.5	15
71	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, 2377-2387.	1.2	5
72	Decontamination of metals and polycyclic aromatic hydrocarbons from slag-polluted soil. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2633-2648.	1.2	23

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73	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.	0.7	16
74	Counter-current acid leaching process for copper azole treated wood waste. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 2111-2118.	1.2	6
75	Toxic Metal Removal from Polluted Soil by Acid Extraction. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3739-3755.	1.1	24
76	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, 111-119.	3.9	75
77	Design and performance of a pilot-scale equipment for CCA-treated wood remediation. <i>Separation and Purification Technology</i> , 2012, 85, 90-95.	3.9	14
78	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.	3.9	33
79	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.	1.1	3
80	Electrochemical treatment of bisphenol-A using response surface methodology. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 95-109.	1.5	44
81	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, 1880-1887.	6.5	29
82	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> , 2010, 31, 1071-1079.	1.0	10
83	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.	1.5	23
84	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.	0.7	12
85	Experimental assessment of an innovative process for simultaneous PAHs and Pb removal from polluted soils. <i>Science of the Total Environment</i> , 2009, 407, 5402-5410.	3.9	30
86	Treatment of metal-loaded soil leachates by electrocoagulation. <i>Separation and Purification Technology</i> , 2009, 67, 110-116.	3.9	16
87	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, 1372-1382.	6.5	90
88	Amphoteric Surfactants for PAH and Lead Polluted-Soil Treatment Using Flotation. <i>Water, Air, and Soil Pollution</i> , 2009, 197, 381-393.	1.1	36
89	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.	1.8	78
90	Comparative study of dewatering characteristics of metal precipitates generated during treatment synthetic polymetallic and AMD solutions. <i>Hydrometallurgy</i> , 2009, 98, 247-256.	1.8	20

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91	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.	6.5	9
92	Optimization of a chemical leaching process for decontamination of CCA-treated wood. <i>Journal of Hazardous Materials</i> , 2009, 169, 136-145.	6.5	48
93	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, 1099-1105.	6.5	62
94	Coupling extraction-flotation with surfactant and electrochemical degradation for the treatment of PAH contaminated hazardous wastes. <i>Journal of Hazardous Materials</i> , 2009, 170, 1218-1226.	6.5	18
95	Chemical Leaching of Metals from Wastewater Sludge: Comparative Study by Use of Three Oxidizing Agents [H_2O_2 , $FeCl_3$, and $Fe_2(SO_4)_3$]. <i>Water Environment Research</i> , 2009, 81, 523-531.	1.3	11
96	Organics removal in oily bilgewater by electrocoagulation process. <i>Journal of Hazardous Materials</i> , 2008, 151, 446-455.	6.5	125
97	Decolourization of dye-containing effluent using mineral coagulants produced by electrocoagulation. <i>Journal of Hazardous Materials</i> , 2008, 155, 153-163.	6.5	70
98	Decontamination of sludge by the METIX-AC process. Part I: Effects on sludge quality and leaching of chemicals. <i>Bioresource Technology</i> , 2008, 99, 1433-1449.	4.8	6
99	Decontamination of sludge by the METIX-AC process. Part II: Effects on maize growth and bioaccumulation of metals. <i>Bioresource Technology</i> , 2008, 99, 1450-1464.	4.8	7
100	Transformation of red mud from aluminium industry into a coagulant for wastewater treatment. <i>Hydrometallurgy</i> , 2008, 92, 16-25.	1.8	59
101	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, 1943-1952.	5.3	47
102	Décontamination de sols pollués par les hydrocarbures aromatiques polycycliques par biogradation en présence de substrats organiques supplémentaires. <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 467-479.	0.3	6
103	Review of Electrochemical Technologies for Environmental Applications. <i>Recent Patents on Engineering</i> , 2007, 1, 257-272.	0.3	110
104	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.	3.7	30
105	PAH removal from spiked municipal wastewater sewage sludge using biological, chemical and electrochemical treatments. <i>Chemosphere</i> , 2007, 68, 1143-1152.	4.2	73
106	Décontamination à l'échelle 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.	0.3	17
107	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.	0.7	36
108	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.	1.8	7

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109	Bioproduction of Ferric Sulfate Used during Heavy Metals Removal from Sewage Sludge. Journal of Environmental Quality, 2005, 34, 816-824.	1.0	11
110	Different options for metal recovery after sludge decontamination at the Montreal Urban Community wastewater treatment plant. Water Science and Technology, 2002, 46, 33-41.	1.2	19
111	A Decontamination Process to Remove Metals and Stabilise Montreal Sewage Sludge. Scientific World Journal, The, 2002, 2, 1121-1126.	0.8	17