Jocelyn Bouchard

List of Publications by Year
in descending order

38 papers	319 citations	10 h-index	16 g-index
		933447	940533
38 all docs	38 docs citations	38 times ranked	237 citing authors

#	Article	IF	Citations
1	Column flotation simulation and control: An overview. Minerals Engineering, 2009, 22, 519-529.	4.3	47
2	Effect of particles on bubble size distribution and gas hold-up in column flotation. International Journal of Mineral Processing, 2016, 157, 163-173.	2.6	35
3	Reducing the energy footprint of grinding circuits: the process control paradigm. IFAC-PapersOnLine, 2017, 50, 1163-1168.	0.9	20
4	Froth flotation of sphalerite: Collector concentration, gas dispersion and particle size effects. Minerals Engineering, 2014, 57, 72-78.	4.3	19
5	Recent advances in bias and froth depth control in flotation columns. Minerals Engineering, 2005, 18, 709-720.	4.3	18
6	A Modular Dynamic Simulation Model for Comminution Circuits. IFAC-PapersOnLine, 2016, 49, 19-24.	0.9	17
7	On the relationship between hydrodynamic characteristics and the kinetics of flotation. Part II: Model validation. Minerals Engineering, 2015, 74, 198-206.	4.3	14
8	Integration of a liberation model in a simulation framework for comminution circuits. Minerals Engineering, 2018, 126, 167-176.	4.3	14
9	Parameterization of Bubble Size Distribution in Flotation Columns. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 128-133.	0.4	10
10	On the relationship between hydrodynamic characteristics and the kinetics of column flotation. Part I: Modeling the gas dispersion. Minerals Engineering, 2015, 74, 207-215.	4.3	10
11	Integrating online mineral liberation data into process control and optimisation systems for grinding–separation plants. Journal of Process Control, 2021, 105, 169-178.	3.3	10
12	Column flotation simulation: A dynamic framework. Minerals Engineering, 2014, 55, 30-41.	4.3	9
13	Modeling the product net value of a grinding-flotation circuit. IFAC-PapersOnLine, 2019, 52, 18-23.	0.9	8
14	A mineral liberation distribution estimator for monitoring and process control applications. Powder Technology, 2020, 367, 527-538.	4.2	7
15	Assessing the potential of quebec lithium industry: Mineral reserves, lithium-ion batteries production and greenhouse gas emissions. Resources Policy, 2021, 74, 102371.	9.6	7
16	Systematic calibration of a simulated semi-autogenous/ball-mill grinding circuit. IFAC-PapersOnLine, 2020, 53, 12026-12031.	0.9	7
17	A dynamic model of fluidized-bed flotation. IFAC-PapersOnLine, 2019, 52, 66-71.	0.9	6
18	A steady-state model of the high-pressure grinding rolls. IFAC-PapersOnLine, 2020, 53, 11830-11835.	0.9	6

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19	Synthesis of Different Manganese Oxides Using SO2/O2 Gas Mixtures at Different Temperatures. Industrial & Engineering Chemistry Research, 2014, 53, 7965-7970.	3.7	5
20	A dynamic simulation model of a continuous horizontal fluidized bed dryer. Chemical Engineering Science, 2021, 233, 116258.	3.8	5
21	Plant Automation for Energy-Efficient Mineral Processing. Green Energy and Technology, 2018, , 233-250.	0.6	4
22	Simulation Analysis of a Mineral Liberation Estimator for Control Purposes. IFAC-PapersOnLine, 2019, 52, 123-128.	0.9	4
23	The potential of lithium in Quebec for the electric vehicle market: state of the art, opportunities and challenges. International Journal of Mining, Reclamation and Environment, 2022, 36, 68-80.	2.8	4
24	Automatic Control of Flotation Columns. Advances in Industrial Control, 2010, , 249-286.	0.5	4
25	Unifying high-pressure grinding rolls models. Minerals Engineering, 2022, 178, 107427.	4.3	4
26	Real-Time Simulation and Control of a SAG Mill. IFAC-PapersOnLine, 2016, 49, 61-66.	0.9	3
27	Development and validation of a batch fluidized bed dryer model for pharmaceutical particles. Drying Technology, 2021, 39, 620-643.	3.1	3
28	Grey-box model calibration and validation for a continuous horizontal fluidized bed dryer. Chemical Engineering Research and Design, 2021, 174, 254-266.	5.6	3
29	An off-line state observer of the slip, shear stress, and pressure profiles in the high-pressure grinding rolls crusher working gap. Advanced Powder Technology, 2021, 32, 3484-3498.	4.1	3
30	Perspectives of Lithium Mining in Quebec, Potential and Advantages of Integration into a Local Battery Production Chain for Electric Vehicles. Materials Proceedings, 2021, 5, 33.	0.2	3
31	OPTIMIZATION-FREE CONSTRAINED NONLINEAR PREDICTIVE CONTROL â€" MINERAL PROCESSING APPLICATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 217-222.	0.4	2
32	Project economics of lithium mines in Quebec: A critical review. The Extractive Industries and Society, 2021, 8, 100984.	1.2	2
33	Monitoring the Moisture Content in Pharmaceutical Batch Fluidized Bed Dryers Using Observer-Based Soft Sensors. IFAC-PapersOnLine, 2020, 53, 12056-12061.	0.9	2
34	Constrained Nonlinear Predictive Control Based on IMC-Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 317-322.	0.4	1
35	Modelling the product mass flow rate of high-pressure grinding rolls. IFAC-PapersOnLine, 2021, 54, 127-132.	0.9	1
36	Model development for the design of control strategies of the primary drying of lyophilization in vials. Drying Technology, 2022, 40, 3292-3309.	3.1	1

#	Article	IF	Citations
37	Performance of predictive control for a continuous horizontal fluidized bed dryer. Journal of Process Control, 2022, 115, 123-133.	3.3	1
38	Simple Model and Predictive Control of a Pharmaceutical Batch Fluidized Bed Dryer. IFAC-PapersOnLine, 2021, 54, 7-12.	0.9	0