

Michael S Moats

List of Publications by Year in descending order

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54
papers

1,415
citations

304743

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345221

36
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64
all docs

64
docs citations

64
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	Will lead-based anodes ever be replaced in aqueous electrowinning?. <i>Jom</i> , 2008, 60, 46-49.	1.9	231
2	The effect of copper, acid, and temperature on the diffusion coefficient of cupric ions in simulated electrorefining electrolytes. <i>Hydrometallurgy</i> , 2000, 56, 255-268.	4.3	67
3	Crushed ore agglomeration and its control for heap leach operations. <i>Minerals Engineering</i> , 2013, 41, 53-70.	4.3	62
4	Thiourea-thiocyanate leaching system for gold. <i>Hydrometallurgy</i> , 2011, 106, 58-63.	4.3	60
5	Morphological and electrochemical investigation of RuO ₂ -Ta ₂ O ₅ oxide films prepared by the Pechini-Adams method. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 767-775.	2.9	57
6	Recent advances in the application of X-ray computed tomography in the analysis of heap leaching systems. <i>Minerals Engineering</i> , 2012, 35, 75-86.	4.3	55
7	Thiocyanate hydrometallurgy for the recovery of gold. Part I: Chemical and thermodynamic considerations. <i>Hydrometallurgy</i> , 2012, 113-114, 1-9.	4.3	51
8	Process Simulation and Economic Feasibility Analysis for a Hydrogen-Based Novel Suspension Ironmaking Technology. <i>Steel Research International</i> , 2011, 82, 951-963.	1.8	50
9	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 1 - Flowsheet and simulation for ironmaking with reformerless natural gas. <i>Ironmaking and Steelmaking</i> , 2012, 39, 398-408.	2.1	49
10	Recent Trends in the Processing of Enargite Concentrates. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2014, 35, 283-367.	5.0	44
11	Indirect Electrochemical Cr(III) Oxidation in KOH Solutions at an Au Electrode: The Role of Oxygen Reduction Reaction. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7531-7537.	2.6	38
12	Gold dissolution in acidic thiourea and thiocyanate solutions. <i>Electrochimica Acta</i> , 2010, 55, 3643-3649.	5.2	37
13	The interaction of thiourea and formamidine disulfide in the dissolution of gold in sulfuric acid solutions. <i>Minerals Engineering</i> , 2010, 23, 698-704.	4.3	36
14	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 3 - Economic feasibility analysis. <i>Ironmaking and Steelmaking</i> , 2013, 40, 44-49.	2.1	35
15	A Bright Future for copper electrowinning. <i>Jom</i> , 2007, 59, 34-36.	1.9	33
16	Towards resilient and sustainable supply of critical elements from the copper supply chain: A review. <i>Journal of Cleaner Production</i> , 2021, 307, 127207.	9.3	31
17	Wet film application techniques and their effects on the stability of RuO ₂ -TiO ₂ coated titanium anodes. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 107-116.	2.9	30
18	Modulated Cr(III) oxidation in KOH solutions at a gold electrode: Competition between disproportionation and stepwise electron transfer. <i>Electrochimica Acta</i> , 2011, 56, 8311-8318.	5.2	30

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19	Efficient electrochemical recovery of fine tellurium powder from hydrochloric acid media via mass transfer enhancement. Separation and Purification Technology, 2018, 203, 117-123.	7.9	29
20	Thiocyanate hydrometallurgy for the recovery of gold.. Hydrometallurgy, 2012, 113-114, 10-18.	4.3	27
21	An Update to "Recent Trends in the Processing of Enargite Concentrates" Mineral Processing and Extractive Metallurgy Review, 2014, 35, 390-422.	5.0	27
22	Thiocyanate hydrometallurgy for the recovery of gold. Part IV: Solvent extraction of gold with Alamine 336. Hydrometallurgy, 2012, 113-114, 25-30.	4.3	25
23	Acid bake-leach process for the treatment of enargite concentrates. Hydrometallurgy, 2012, 119-120, 30-39.	4.3	25
24	Electrolytic recovery of bismuth and copper as a powder from acidic sulfate effluents using an emew® cell. RSC Advances, 2015, 5, 50372-50378.	3.6	22
25	Removal of Antimony and Bismuth from Copper Electrorefining Electrolyte: Part I "A Review. Jom, 2018, 70, 2033-2040.	1.9	21
26	Mesh-on-lead anodes for copper electrowinning. Jom, 2003, 55, 46-48.	1.9	20
27	Thiocyanate hydrometallurgy for the recovery of gold. Part V: Process alternatives for solution concentration and purification. Hydrometallurgy, 2012, 113-114, 31-38.	4.3	17
28	Thiocyanate hydrometallurgy for the recovery of goldPart III: Thiocyanate stability. Hydrometallurgy, 2012, 113-114, 19-24.	4.3	15
29	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 2 " Flowsheet and simulation for ironmaking combined with steam methane reforming. Ironmaking and Steelmaking, 2013, 40, 32-43.	2.1	15
30	Electrowinning of Nickel from Purified Nickel Solutions. , 2011, , 327-345.		14
31	Removal of Antimony and Bismuth from Copper Electrorefining Electrolyte: Part II "An Investigation of Two Proprietary Solvent Extraction Extractants. Jom, 2018, 70, 2856-2863.	1.9	14
32	Ruthenium Palladium Oxide-Coated Titanium Anodes for Low-Current-Density Oxygen Evolution. Journal of the Electrochemical Society, 2008, 155, E101.	2.9	12
33	Nickel and Cobalt Production. , 2014, , 625-669.		10
34	Removal of Sb Impurities in Copper Electrolyte and Evaluation of as and Fe Species in an Electrorefining Plant. Metals, 2021, 11, 902.	2.3	10
35	Evaluation of the Effect of Copper Electrowinning Parameters on Current Efficiency and Energy Consumption Using Surface Response Methodology. ECS Transactions, 2010, 28, 295-306.	0.5	9
36	The stability of selected sulfide minerals in sulfuric acid and acidic thiocyanate solutions. Electrochimica Acta, 2012, 78, 133-138.	5.2	9

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37	Evaluation of liquid retention capacity measurements as a tool for estimating optimal ore agglomeration moisture content. <i>International Journal of Mineral Processing</i> , 2013, 119, 58-64.	2.6	9
38	Stainless steel substrate pretreatment effects on copper nucleation and stripping during copper electrowinning. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 219-233.	2.9	9
39	Using Electrochemical Impedance Spectroscopy to Investigate Gold Dissolution in Thiourea and Thiocyanate Acid Solutions. <i>ECS Transactions</i> , 2010, 28, 213-221.	0.5	8
40	Wet chemical synthesis of high aspect ratio magnetite rods. <i>Powder Technology</i> , 2011, 212, 439-444.	4.2	8
41	Understanding the Agglomeration Behavior of Selected Copper Ores Using Statistical Design of Experiments. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015, 36, 13-25.	5.0	6
42	Examination of copper electrowinning smoothing agents. Part IV: Nucleation and growth of copper on stainless steel. <i>Minerals and Metallurgical Processing</i> , 2016, 33, 39-46.	0.7	5
43	<i>Hydrometallurgical Processing</i> , 2014, , 949-982.		4
44	Examination of copper electrowinning smoothing agents. Part II: Fundamental electrochemical examination of DXG-F7. <i>Minerals and Metallurgical Processing</i> , 2016, 33, 14-22.	0.7	4
45	Nodule Formation on Copper Electrodeposits in the Rotating Cylinder Hull Cell. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 561-570.	2.1	4
46	Single Particle Microelectrodes for Electrochemical Analysis of Sulfide Flotation Processes. <i>ECS Transactions</i> , 2006, 2, 21-33.	0.5	3
47	Energy Efficiency of Electrowinning. <i>Green Energy and Technology</i> , 2018, , 213-232.	0.6	3
48	Effective Copper Diffusion Coefficients in $\text{CuSO}_4\text{-H}_2\text{SO}_4$ Electrowinning Electrolytes. <i>Minerals, Metals and Materials Series</i> , 2020, , 1237-1247.	0.4	3
49	Examination of copper electrowinning smoothing agents. Part I: A review. <i>Minerals and Metallurgical Processing</i> , 2016, 33, 7-13.	0.7	2
50	Examination of copper electrowinning smoothing agents. Part III. Chloride interaction with HydroStar and Cyquest N-900. <i>Minerals and Metallurgical Processing</i> , 2016, 33, 31-38.	0.7	2
51	Solubility of bismuth, antimony and arsenic in synthetic and industrial copper electrorefining electrolyte. <i>Hydrometallurgy</i> , 2022, 208, 105807.	4.3	2
52	Inhibiting Unwanted Redox Reactions with Valve Metal Oxide Topcoats on Dimensionally Stable Anodes. <i>ECS Transactions</i> , 2006, 2, 87-94.	0.5	0
53	<i>Characteristics of Nickel Laterite Crushed Ore Agglomerates</i> , 2013, , 125-139.		0
54	High Current Density Electrowinning of Nickel in EMEWÂ® Cells, 2013, , 191-199.		0