

Roel Cruz

List of Publications by Year in descending order

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36
papers

803
citations

430874

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501196

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all docs

36
docs citations

36
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of sulfide impurities on the reactivity of pyrite and pyritic concentrates: a multi-tool approach. Applied Geochemistry, 2001, 16, 803-819.	3.0	77
2	Desalination by capacitive deionization process using nitric acid-modified activated carbon as the electrodes. Desalination, 2014, 340, 67-72.	8.2	77
3	An experimental strategy to determine galvanic interactions affecting the reactivity of sulfide mineral concentrates. Hydrometallurgy, 2005, 78, 198-208.	4.3	62
4	The role of temperature in copper electrocrystallization in ammonia-chloride solutions. Electrochimica Acta, 2006, 52, 892-903.	5.2	44
5	Cyclic voltammetry applied to evaluate reactivity in sulfide mining residues. Applied Geochemistry, 2001, 16, 1631-1640.	3.0	43
6	Galena weathering under simulated calcareous soil conditions. Science of the Total Environment, 2011, 409, 3971-9.	8.0	40
7	Electrochemical oxidation of arsenopyrite in acidic media. International Journal of Mineral Processing, 1997, 50, 63-75.	2.6	38
8	Surface characterization of arsenopyrite in acidic medium by triangular scan voltammetry on carbon paste electrodes. Hydrometallurgy, 1997, 46, 303-319.	4.3	36
9	Electrochemical study of binary and ternary copper complexes in ammonia-chloride medium. Electrochimica Acta, 2007, 52, 6106-6117.	5.2	36
10	Acid dissolution influences bacterial attachment and oxidation of arsenopyrite. Minerals Engineering, 2005, 18, 1024-1031.	4.3	33
11	Dissolution rates of jarosite-type compounds in H ₂ SO ₄ medium: A kinetic analysis and its importance on the recovery of metal values from hydrometallurgical wastes. Hydrometallurgy, 2017, 167, 16-29.	4.3	31
12	Electrochemical characterization of pyrrhotite reactivity under simulated weathering conditions. Applied Geochemistry, 2005, 20, 109-121.	3.0	29
13	An experimental study of iron sulfides weathering under simulated calcareous soil conditions. Environmental Earth Sciences, 2015, 73, 1849-1869.	2.7	28
14	Thermodynamic and electrochemistry analysis of the zinc electrodeposition in NH ₄ Cl-NH ₃ electrolytes on Ti, Glassy Carbon and 316L Stainless Steel. Electrochimica Acta, 2012, 79, 109-116.	5.2	26
15	Influence of the surface speciation on biofilm attachment to chalcopyrite by Acidithiobacillus thiooxidans. Applied Microbiology and Biotechnology, 2013, 97, 2711-2724.	3.6	26
16	Electrochemical Study of Orpiment (As ₂ S ₃) and Realgar (As ₂ S ₂) in Acidic Media. Electrochimica Acta, 1997, 42, 4128-4132.	2.9	20
17	Influence of the sulfur species reactivity on biofilm conformation during pyrite colonization by Acidithiobacillus thiooxidans. Applied Microbiology and Biotechnology, 2012, 95, 799-809.	3.6	20
18	Interfacial insights of pyrite colonized by Acidithiobacillus thiooxidans cells under acidic conditions. Hydrometallurgy, 2010, 103, 35-44.	4.3	19

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19	Evolution of biofilms during the colonization process of pyrite by <i>Acidithiobacillus thiooxidans</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 763-775.	3.6	17
20	The importance of current distribution and cell hydrodynamic analysis for the design of electrocoagulation reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 220-229.	3.2	17
21	Electrochemical and spectroscopic study of interfacial interactions between chalcopyrite and typical flotation process reagents. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 127-136.	4.9	16
22	Arsenopyrite weathering under conditions of simulated calcareous soil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 3681-3706.	5.3	15
23	Electrochemical oxidation of cyanide on 3D TiO ₂ /RuO ₂ anode using a filter-press electrolyzer. <i>Chemosphere</i> , 2017, 177, 1-6.	8.2	15
24	Effect of organic agents on the oxidation process of chalcopyrite in a sulfuric acid solution. <i>Electrochimica Acta</i> , 2020, 355, 136789.	5.2	11
25	An Overview of Reclaimed Wastewater Reuse in Gold Heap Leaching. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2016, 37, 274-285.	5.0	10
26	Adsorption Study of Sodium Isopropyl Xanthate On Chalcopyrite. <i>ECS Transactions</i> , 2013, 47, 69-75.	0.5	4
27	Effects of the Coordination Sphere in Zinc Deposition from NH ₄ Cl Solutions. <i>ECS Transactions</i> , 2008, 15, 161-169.	0.5	3
28	Electrochemical Study of Copper(II) Reduction from Ammonia-Chloride Solutions. <i>ECS Transactions</i> , 2006, 2, 355-364.	0.5	2
29	Aspects that Modify the Dissolution of Aluminum Electrodes in an Effluent from the Tissue Paper Industry. <i>ECS Transactions</i> , 2010, 29, 81-91.	0.5	2
30	Chemical treatment of the intra-canal dentin surface: a new approach to modify dentin hydrophobicity. <i>Journal of Applied Oral Science</i> , 2013, 21, 63-67.	1.8	2
31	A Comparative Analysis of 2-(Thiocyanomethylthio)-Benzothiazole Degradation Using Electro-Fenton and Anodic Oxidation on a Boron-Doped Diamond Electrode. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-9.	2.5	2
32	Electrochemical Characterization of Galena under Simulated Carbonate Rich Weathering Conditions. <i>ECS Transactions</i> , 2006, 2, 209-219.	0.5	1
33	Study of Adsorption of Sodium Isopropyl Xanthate on Galena. <i>ECS Transactions</i> , 2011, 36, 463-470.	0.5	1
34	Electrochemical Characterization of Galena under Simulated Carbonate Rich Weathering Conditions. <i>ECS Meeting Abstracts</i> , 2006, , .	0.0	0
35	Electrochemical and Spectroscopic Analysis of the Arsenopyrite (FeAsS) Oxidation under Calcareous Soil Conditions. <i>ECS Transactions</i> , 2010, 28, 105-116.	0.5	0
36	Kinetic Analysis of the Decomposition of the KFe ₃ (SO ₄) _{2-x} (CrO ₄) _x (OH) ₆ Jarosite Solid Solution in Ca(OH) ₂ Medium. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	0