

Efthymios Balomenos

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

743
citations

686830

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552369

26
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42
all docs

42
docs citations

42
times ranked

704
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective leaching of rare earth elements from bauxite residue (red mud), using a functionalized hydrophobic ionic liquid. <i>Hydrometallurgy</i> , 2016, 164, 125-135.	1.8	156
2	Re-using bauxite residues: benefits beyond (critical raw) material recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2498-2510.	1.6	88
3	Energy and Exergy Analysis of the Primary Aluminum Production Processes: A Review on Current and Future Sustainability. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2011, 32, 69-89.	2.6	79
4	Leaching of rare earth elements from eudialyte concentrate by suppressing silica gel formation. <i>Minerals Engineering</i> , 2017, 108, 115-122.	1.8	63
5	Iron Recovery from Bauxite Residue Through Reductive Roasting and Wet Magnetic Separation. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 9-19.	1.1	51
6	Behavior of Platinum Group during Their Pyrometallurgical Recovery from Spent Automotive Catalysts. <i>Open Access Library Journal (oalib)</i> , 2014, 01, 1-9.	0.1	29
7	The EURARE Project: Development of a Sustainable Exploitation Scheme for Europe's Rare Earth Ore Deposits. <i>Johnson Matthey Technology Review</i> , 2017, 61, 142-153.	0.5	27
8	Mud2Metal: Lessons Learned on the Path for Complete Utilization of Bauxite Residue Through Industrial Symbiosis. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 551-560.	1.1	24
9	MODELING CHEMICAL EQUILIBRIUM OF ELECTROLYTE SOLUTIONS. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2006, 27, 1-60.	2.6	20
10	Leaching of rare earth elements from "Rudberg" ore of Fen carbonatite complex deposit, using the ionic liquid HbetTf2N. <i>Hydrometallurgy</i> , 2018, 175, 20-27.	1.8	20
11	The Utilization of Bauxite Residue with a Calcite-Rich Bauxite Ore in the Pedersen Process for Iron and Alumina Extraction. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1255-1266.	1.0	19
12	On the Direct Reduction Phenomena of Bauxite Ore Using H2 Gas in a Fixed Bed Reactor. <i>Journal of Sustainable Metallurgy</i> , 2020, 6, 227-238.	1.1	18
13	Resource-Efficient and Economically Viable Pyrometallurgical Processing of Industrial Ferrous By-products. <i>Waste and Biomass Valorization</i> , 2014, 5, 333-342.	1.8	14
14	Thin-Layer Modeling and Determination of Effective Moisture Diffusivity and Activation Energy for Drying of Red Mud from Filter Presses. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 344-352.	1.1	11
15	A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. <i>Fluid Phase Equilibria</i> , 2006, 243, 29-37.	1.4	10
16	A Combined Soda Sintering and Microwave Reductive Roasting Process of Bauxite Residue for Iron Recovery. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 222.	0.8	9
17	Nepheline Syenite as an Alternative Source for Aluminum Production. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 734.	0.8	9
18	Exergy Analysis of Metal Oxide Carbothermic Reduction under Vacuum " Sustainability prospects. <i>International Journal of Thermodynamics</i> , 2012, 15, .	0.4	9

#	ARTICLE	IF	CITATIONS
19	Electrolytic Iron Production from Alkaline Bauxite Residue Slurries at Low Temperatures. Johnson Matthey Technology Review, 2021, 65, 366-374.	0.5	8
20	Carbonation of Sodium Aluminate/Sodium Carbonate Solutions for Precipitation of Alumina Hydrates—Avoiding Dawsonite Formation. Crystals, 2021, 11, 836.	1.0	7
21	Leaching of Ca-Rich Slags Produced from Reductive Smelting of Bauxite Residue with Na ₂ CO ₃ Solutions for Alumina Extraction: Lab and Pilot Scale Experiments. Minerals (Basel, Switzerland), 2021, 11, 896.	0.8	7
22	Optimization of Microwave Reductive Roasting Process of Bauxite Residue. Metals, 2020, 10, 1083.	1.0	6
23	Mapping of Aluminum Concentration in Bauxite Mining Residues Using Sentinel-2 Imagery. Remote Sensing, 2021, 13, 1517.	1.8	6
24	Spatial Component Analysis to Improve Mineral Estimation Using Sentinel-2 Band Ratio: Application to a Greek Bauxite Residue. Minerals (Basel, Switzerland), 2021, 11, 549.	0.8	6
25	Leaching Rare Earth Elements from Bauxite Residue Using Brønsted Acidic Ionic Liquids. , 2016, , 183-197.		5
26	Utilizing Recyclable Task-Specific Ionic Liquid for Selective Leaching and Refining of Scandium from Bauxite Residue. Molecules, 2021, 26, 818.	1.7	5
27	Scandium Extraction from Bauxite Residue Using Sulfuric Acid and a Composite Extractant-Enhanced Ion-Exchange Polymer Resin. Minerals, Metals and Materials Series, 2021, , 217-228.	0.3	5
28	Use of Ion-Exchange Resins to Adsorb Scandium from Titanium Industry's Chloride Acidic Solution at Ambient Temperature. Metals, 2022, 12, 864.	1.0	5
29	A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. Fluid Phase Equilibria, 2006, 247, 1-7.	1.4	4
30	Parameters Affecting the Precipitation of Al Phases from Aluminate Solutions of the Pedersen Process: The Effect of Carbonate Content. Journal of Sustainable Metallurgy, 2021, 7, 874-882.	1.1	4
31	Sustainable Silicon and High Purity Alumina Production from Secondary Silicon and Aluminium Raw Materials through the Innovative SisAl Technology. Materials Proceedings, 2021, 5, 85.	0.2	4
32	Recovery of Iron and Aluminum from Bauxite Residue by Carbothermic Reduction and Slag Leaching. Journal of Sustainable Metallurgy, 2021, 7, 1314-1326.	1.1	3
33	Sustainable Supply of Scandium for the EU Industries from Liquid Iron Chloride Based TiO ₂ Plants. , 2021, 5, .		3
34	Exploitation of Kaolin as an Alternative Source in Alumina Production. Materials Proceedings, 2021, 5, .	0.2	2
35	First Industrial Scale Process Concept for the Reengineered Pedersen Process within ENSUREAL. Materials Proceedings, 2021, 5, 8.	0.2	1
36	ËIDERWIN—A New Route for Iron Production. Materials Proceedings, 2021, 5, 58.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Viable Scandium Extraction from Bauxite Residue at Pilot Scale. , 2022, 5, .		1
38	Theoretical Method for Interconverting Concentrations Scales for Single and Mixed Aqueous Solutions Using Ionic Radii. Journal of Chemical & Engineering Data, 2006, 51, 1261-1267.	1.0	0
39	Carbothermic Reduction Methods for Alumina. , 2019, , .		0
40	High Temperature Treatment of Selected Iron Rich Bauxite Ores to Produce Calcium Aluminate Slags. Materials Proceedings, 2021, 5, 36.	0.2	0