

Efthymios Balomenos

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Viable Scandium Extraction from Bauxite Residue at Pilot Scale. , 2022, 5, .		1
2	Use of Ion-Exchange Resins to Adsorb Scandium from Titanium Industry's Chloride Acidic Solution at Ambient Temperature. Metals, 2022, 12, 864.	2.3	5
3	Utilizing Recyclable Task-Specific Ionic Liquid for Selective Leaching and Refining of Scandium from Bauxite Residue. Molecules, 2021, 26, 818.	3.8	5
4	A Combined Soda Sintering and Microwave Reductive Roasting Process of Bauxite Residue for Iron Recovery. Minerals (Basel, Switzerland), 2021, 11, 222.	2.0	9
5	The Utilization of Bauxite Residue with a Calcite-Rich Bauxite Ore in the Pedersen Process for Iron and Alumina Extraction. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1255-1266.	2.1	19
6	Mapping of Aluminum Concentration in Bauxite Mining Residues Using Sentinel-2 Imagery. Remote Sensing, 2021, 13, 1517.	4.0	6
7	Spatial Component Analysis to Improve Mineral Estimation Using Sentinel-2 Band Ratio: Application to a Greek Bauxite Residue. Minerals (Basel, Switzerland), 2021, 11, 549.	2.0	6
8	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.	2.3	4
9	Electrolytic Iron Production from Alkaline Bauxite Residue Slurries at Low Temperatures. Johnson Matthey Technology Review, 2021, 65, 366-374.	1.0	8
10	Carbonation of Sodium Aluminate/Sodium Carbonate Solutions for Precipitation of Alumina Hydrates—Avoiding Dawsonite Formation. Crystals, 2021, 11, 836.	2.2	7
11	Nepheline Syenite as an Alternative Source for Aluminum Production. Minerals (Basel, Switzerland), 2021, 11, 734.	2.0	9
12	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.	2.0	7
13	Recovery of Iron and Aluminum from Bauxite Residue by Carbothermic Reduction and Slag Leaching. Journal of Sustainable Metallurgy, 2021, 7, 1314-1326.	2.3	3
14	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.	0.4	5
15	First Industrial Scale Process Concept for the Reengineered Pedersen Process within ENSUREAL. Materials Proceedings, 2021, 5, 8.	0.2	1
16	High Temperature Treatment of Selected Iron Rich Bauxite Ores to Produce Calcium Aluminate Slags. Materials Proceedings, 2021, 5, 36.	0.2	0
17	Exploitation of Kaolin as an Alternative Source in Alumina Production. Materials Proceedings, 2021, 5, .	0.2	2
18	ËIDERWIN—A New Route for Iron Production. Materials Proceedings, 2021, 5, 58.	0.2	1

#	ARTICLE	IF	CITATIONS
19	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
20	Sustainable Supply of Scandium for the EU Industries from Liquid Iron Chloride Based TiO ₂ Plants. , 2021, 5, .		3
21	Optimization of Microwave Reductive Roasting Process of Bauxite Residue. Metals, 2020, 10, 1083.	2.3	6
22	On the Direct Reduction Phenomena of Bauxite Ore Using H ₂ Gas in a Fixed Bed Reactor. Journal of Sustainable Metallurgy, 2020, 6, 227-238.	2.3	18
23	Iron Recovery from Bauxite Residue Through Reductive Roasting and Wet Magnetic Separation. Journal of Sustainable Metallurgy, 2019, 5, 9-19.	2.3	51
24	Carbothermic Reduction Methods for Alumina. , 2019, , .		0
25	Leaching of rare earth elements from "Årdberg"™ ore of Fen carbonatite complex deposit, using the ionic liquid HbetTf ₂ N. Hydrometallurgy, 2018, 175, 20-27.	4.3	20
26	Re-using bauxite residues: benefits beyond (critical raw) material recovery. Journal of Chemical Technology and Biotechnology, 2018, 93, 2498-2510.	3.2	88
27	Leaching of rare earth elements from eudialyte concentrate by suppressing silica gel formation. Minerals Engineering, 2017, 108, 115-122.	4.3	63
28	Mud2Metal: Lessons Learned on the Path for Complete Utilization of Bauxite Residue Through Industrial Symbiosis. Journal of Sustainable Metallurgy, 2017, 3, 551-560.	2.3	24
29	The EURARE Project: Development of a Sustainable Exploitation Scheme for Europe's™ Rare Earth Ore Deposits. Johnson Matthey Technology Review, 2017, 61, 142-153.	1.0	27
30	Thin-Layer Modeling and Determination of Effective Moisture Diffusivity and Activation Energy for Drying of Red Mud from Filter Presses. Journal of Sustainable Metallurgy, 2016, 2, 344-352.	2.3	11
31	Selective leaching of rare earth elements from bauxite residue (red mud), using a functionalized hydrophobic ionic liquid. Hydrometallurgy, 2016, 164, 125-135.	4.3	156
32	Leaching Rare Earth Elements from Bauxite Residue Using Brønsted Acidic Ionic Liquids. , 2016, , 183-197.		5
33	Resource-Efficient and Economically Viable Pyrometallurgical Processing of Industrial Ferrous By-products. Waste and Biomass Valorization, 2014, 5, 333-342.	3.4	14
34	Behavior of Platinum Group during Their Pyrometallurgical Recovery from Spent Automotive Catalysts. Open Access Library Journal (oalib), 2014, 01, 1-9.	0.2	29
35	Exergy Analysis of Metal Oxide Carbothermic Reduction under Vacuum " Sustainability prospects. International Journal of Thermodynamics, 2012, 15, .	1.0	9
36	Energy and Exergy Analysis of the Primary Aluminum Production Processes: A Review on Current and Future Sustainability. Mineral Processing and Extractive Metallurgy Review, 2011, 32, 69-89.	5.0	79

#	ARTICLE	IF	CITATIONS
37	MODELING CHEMICAL EQUILIBRIUM OF ELECTROLYTE SOLUTIONS. Mineral Processing and Extractive Metallurgy Review, 2006, 27, 1-60.	5.0	20
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.	1.9	0
39	A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. Fluid Phase Equilibria, 2006, 243, 29-37.	2.5	10
40	A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. Fluid Phase Equilibria, 2006, 247, 1-7.	2.5	4