

Dr-Ing hc Bernd Friedrich

List of Publications by Year in descending order

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249
papers

4,734
citations

136950

32
h-index

155660

55
g-index

259
all docs

259
docs citations

259
times ranked

3928
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a recycling process for Li-ion batteries. Journal of Power Sources, 2012, 207, 173-182.	7.8	595
2	Development of a recycling process for nickel-metal hydride batteries. Journal of Power Sources, 2006, 158, 1498-1509.	7.8	158
3	Atmospheric leaching of EAF dust with diluted sulphuric acid. Hydrometallurgy, 2005, 77, 41-50.	4.3	118
4	Size-Dependent Effects of Gold Nanoparticles Uptake on Maturation and Antitumor Functions of Human Dendritic Cells In Vitro. PLoS ONE, 2014, 9, e96584.	2.5	117
5	Gas generation measurement and evaluation during mechanical processing and thermal treatment of spent Li-ion batteries. Waste Management, 2019, 84, 102-111.	7.4	102
6	Recovery Concept of Value Metals from Automotive Lithium-Ion Batteries. Chemie-Ingenieur-Technik, 2015, 87, 1550-1557.	0.8	93
7	Predicting thermodynamic stability of crucible oxides in molten titanium and titanium alloys. Computational Materials Science, 2006, 38, 374-385.	3.0	82
8	Novel Approach for Enhanced Scandium and Titanium Leaching Efficiency from Bauxite Residue with Suppressed Silica Gel Formation. Scientific Reports, 2018, 8, 5676.	3.3	81
9	Development of a Highly Efficient Hydrometallurgical Recycling Process for Automotive Li-Ion Batteries. Journal of Sustainable Metallurgy, 2015, 1, 168-178.	2.3	66
10	Numerical simulation of the twin-roll casting process of magnesium alloy strip. Journal of Materials Processing Technology, 2009, 209, 2321-2328.	6.3	65
11	Synthesis of nanosized spherical cobalt powder by ultrasonic spray pyrolysis. Materials Research Bulletin, 2006, 41, 1882-1890.	5.2	63
12	Leaching of rare earth elements from eudialyte concentrate by suppressing silica gel formation. Minerals Engineering, 2017, 108, 115-122.	4.3	63
13	Nanocrystalline spherical iron-nickel (Fe-Ni) alloy particles prepared by ultrasonic spray pyrolysis and hydrogen reduction (USP-HR). Journal of Alloys and Compounds, 2009, 480, 529-533.	5.5	60
14	Kinetic Investigation and Dissolution Behavior of Cyanide Alternative Gold Leaching Reagents. Scientific Reports, 2019, 9, 7191.	3.3	52
15	Feasibility assessment of electrocoagulation towards a new sustainable wastewater treatment. Environmental Science and Pollution Research, 2007, 14, 477-482.	5.3	51
16	Environmental Impacts of Rare Earth Mining and Separation Based on Eudialyte: A New European Way. Resources, 2016, 5, 32.	3.5	50
17	Recycling of gamma titanium aluminide scrap from investment casting operations. Intermetallics, 2011, 19, 762-768.	3.9	45
18	Investigating the corrosion resistance of calcium zirconate in contact with titanium alloy melts. Journal of the European Ceramic Society, 2015, 35, 259-266.	5.7	45

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19	Methods for Alkaline Recovery of Aluminum from Bauxite Residue. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 353-364.	2.3	45
20	Hydrometallurgical Processing of Eudialyte Bearing Concentrates to Recover Rare Earth Elements Via Low-Temperature Dry Digestion to Prevent the Silica Gel Formation. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 79-89.	2.3	44
21	Reductive Smelting of Red Mud for Iron Recovery. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1535-1542.	0.8	43
22	Porous TiAl alloys fabricated by sintering of TiH ₂ and Al powder mixtures. <i>Journal of Alloys and Compounds</i> , 2016, 656, 530-538.	5.5	42
23	Selective rare earth element extraction using high-pressure acid leaching of slags arising from the smelting of bauxite residue. <i>Hydrometallurgy</i> , 2019, 184, 162-174.	4.3	42
24	Degradation Mechanism of Nickel-Cobalt-Aluminum (NCA) Cathode Material from Spent Lithium-Ion Batteries in Microwave-Assisted Pyrolysis. <i>Metals</i> , 2018, 8, 565.	2.3	40
25	Synovial chondromatosis of the glenohumeral joint: a rare condition. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2001, 121, 109-111.	2.4	38
26	Synthesis of nano-crystalline spherical cobalt-iron (Co-Fe) alloy particles by ultrasonic spray pyrolysis and hydrogen reduction. <i>Journal of Alloys and Compounds</i> , 2009, 481, 600-604.	5.5	37
27	A Mineralogical Assessment on Residues after Acidic Leaching of Bauxite Residue (Red Mud) for Titanium Recovery. <i>Metals</i> , 2017, 7, 458.	2.3	37
28	Phase characterization and thermochemical simulation of (landfilled) bauxite residue (‘red mud’) in different alkaline processes optimized for aluminum recovery. <i>Hydrometallurgy</i> , 2018, 176, 49-61.	4.3	37
29	Cobalt Recovery from Li-Ion Battery Recycling: A Critical Review. <i>Metals</i> , 2021, 11, 1999.	2.3	37
30	A Combined Pyro- and Hydrometallurgical Approach to Recycle Pyrolyzed Lithium-Ion Battery Black Mass Part 1: Production of Lithium Concentrates in an Electric Arc Furnace. <i>Metals</i> , 2020, 10, 1069.	2.3	36
31	Use of ionic liquid in leaching process of brass wastes for copper and zinc recovery. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 138-143.	4.9	35
32	Reducing Greenhouse Gas Emission from the Neodymium Oxide Electrolysis. Part I: Analysis of the Anodic Gas Formation. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 99-107.	2.3	33
33	Tuning the Morphology of ZnO Nanostructures with the Ultrasonic Spray Pyrolysis Process. <i>Metals</i> , 2018, 8, 569.	2.3	33
34	Selective silica gel free scandium extraction from Iron-depleted red mud slags by dry digestion. <i>Hydrometallurgy</i> , 2019, 185, 266-272.	4.3	33
35	Synthesis of Magnesium Carbonate via Carbonation under High Pressure in an Autoclave. <i>Metals</i> , 2018, 8, 993.	2.3	32
36	Corrosion behavior of calcium zirconate refractories in contact with titanium aluminide melts. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1097-1106.	5.7	31

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37	â€œZero-Wasteâ€ A Sustainable Approach on Pyrometallurgical Processing of Manganese Nodule Slags. Minerals (Basel, Switzerland), 2018, 8, 544.	2.0	31
38	Early-Stage Recovery of Lithium from Tailored Thermal Conditioned Black Mass Part I: Mobilizing Lithium via Supercritical CO ₂ -Carbonation. Metals, 2021, 11, 177.	2.3	31
39	Thermodynamic calculations in alloys Ti-Al, Ti-Fe, Al-Fe and Ti-Al-Fe. Journal of Mining and Metallurgy, Section B: Metallurgy, 2008, 44, 49-61.	0.8	31
40	Concentration and Separation of Scandium from Ni Laterite Ore Processing Streams. Metals, 2017, 7, 557.	2.3	29
41	NdFeB Magnets Recycling Process: An Alternative Method to Produce Mixed Rare Earth Oxide from Scrap NdFeB Magnets. Metals, 2021, 11, 716.	2.3	29
42	Successful Synthesis of Gold Nanoparticles through Ultrasonic Spray Pyrolysis from a Gold(III) Nitrate Precursor and Their Interaction with a High Electron Beam. ChemistryOpen, 2018, 7, 533-542.	1.9	28
43	Synthesis of Nanosilica via Olivine Mineral Carbonation under High Pressure in an Autoclave. Metals, 2019, 9, 708.	2.3	28
44	Separation behavior of arsenic and lead from antimony during vacuum distillation and zone refining. Journal of Materials Research and Technology, 2020, 9, 4386-4398.	5.8	28
45	Selective removal of heavy metals from metal-bearing wastewater in a cascade line reactor. Environmental Science and Pollution Research, 2007, 14, 518-522.	5.3	27
46	Cytotoxicity of Gold Nanoparticles Prepared by Ultrasonic Spray Pyrolysis. Journal of Biomaterials Applications, 2012, 26, 595-612.	2.4	27
47	Precipitation Trends of Scandium in Synthetic Red Mud Solutions with Different Precipitation Agents. Journal of Sustainable Metallurgy, 2017, 3, 90-98.	2.3	27
48	The EURARE Project: Development of a Sustainable Exploitation Scheme for Europeâ€™s Rare Earth Ore Deposits. Johnson Matthey Technology Review, 2017, 61, 142-153.	1.0	27
49	Formation mechanisms for gold nanoparticles in a redesigned Ultrasonic Spray Pyrolysis. Advanced Powder Technology, 2017, 28, 876-883.	4.1	26
50	Screening of Non-cyanide Leaching Reagents for Gold Recovery from Waste Electric and Electronic Equipment. Journal of Sustainable Metallurgy, 2018, 4, 265-275.	2.3	26
51	Combined multi-step precipitation and supported ionic liquid phase chromatography for the recovery of rare earths from leach solutions of bauxite residues. Hydrometallurgy, 2018, 180, 229-235.	4.3	26
52	Neural Network Modeling for the Extraction of Rare Earth Elements from Eudialyte Concentrate by Dry Digestion and Leaching. Metals, 2018, 8, 267.	2.3	25
53	A Review on Alternative Gold Recovery Re-agents to Cyanide. Journal of Materials Science and Chemical Engineering, 2016, 04, 8-17.	0.4	25
54	Recycling Strategies for Ceramic All-Solid-State Batteriesâ€”Part I: Study on Possible Treatments in Contrast to Li-Ion Battery Recycling. Metals, 2020, 10, 1523.	2.3	24

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55	Properties of Zr(V0.25Ni0.75)2 metal hydride as active electrode material. Journal of Alloys and Compounds, 1996, 239, 175-182.	5.5	23
56	Selectivity potential of ionic liquids for metal extraction from slags containing rare earth elements. Hydrometallurgy, 2017, 169, 59-67.	4.3	23
57	Comparison of dysprosium production from different resources by life cycle assessment. Resources, Conservation and Recycling, 2018, 130, 248-259.	10.8	23
58	Recovery of Zr, Hf, Nb from eudialyte residue by sulfuric acid dry digestion and water leaching with H2O2 as a promoter. Hydrometallurgy, 2018, 181, 206-214.	4.3	23
59	Mechanism of Sc poisoning of Al-5Ti-1B grain refiner. Scripta Materialia, 2020, 180, 88-92.	5.2	23
60	Effect of Aqueous Media on the Recovery of Scandium by Selective Precipitation. Metals, 2018, 8, 314.	2.3	22
61	New Proposal for Size and Size-Distribution Evaluation of Nanoparticles Synthesized via Ultrasonic Spray Pyrolysis Using Search Algorithm Based on Image-Processing Technique. Materials, 2020, 13, 38.	2.9	22
62	Synthesis of TiO2 core/RuO2 shell particles using multistep ultrasonic spray pyrolysis. Materials Research Bulletin, 2013, 48, 3633-3635.	5.2	21
63	Application of Gold(III) Acetate as a New Precursor for the Synthesis of Gold Nanoparticles in PEG Through Ultrasonic Spray Pyrolysis. Journal of Cluster Science, 2017, 28, 1647-1665.	3.3	21
64	Porous Titanium Parts Fabricated by Sintering of TiH2 and Ti Powder Mixtures. Journal of Materials Engineering and Performance, 2018, 27, 228-242.	2.5	21
65	Economical Feasibility of Rare Earth Mining outside China. Minerals (Basel, Switzerland), 2019, 9, 576.	2.0	21
66	Refining Principles and Technical Methodologies to Produce Ultra-Pure Magnesium for High-Tech Applications. Metals, 2019, 9, 85.	2.3	21
67	Comparative analyses of Purkinje cell gene expression profiles reveal shared molecular abnormalities in models of different polyglutamine diseases. Brain Research, 2012, 1481, 37-48.	2.2	20
68	Kinetic and thermodynamic investigations of non-isothermal decomposition process of a commercial silver nitrate in an argon atmosphere used as the precursors for ultrasonic spray pyrolysis (USP): The mechanistic approach. Chemical Engineering and Processing: Process Intensification, 2014, 82, 71-87.	3.6	20
69	Comparative Analysis About Degradation Mechanisms of Printed Circuit Boards (PCBs) in Slow and Fast Pyrolysis: The Influence of Heating Speed. Journal of Sustainable Metallurgy, 2018, 4, 205-221.	2.3	20
70	Scandium Recovery from an Ammonium Fluoride Strip Liquor by Anti-Solvent Crystallization. Metals, 2018, 8, 767.	2.3	20
71	Reducing Greenhouse Gas Emission from the Neodymium Oxide Electrolysis. Part II: Basics of a Process Control Avoiding PFC Emission. International Journal of Nonferrous Metallurgy, 2017, 06, 27-46.	0.3	20
72	A continuous process for the ultrasonic spray pyrolysis synthesis of RuO2/TiO2 particles and their application as a coating of activated titanium anode. Advanced Powder Technology, 2017, 28, 43-49.	4.1	19

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73	Hydrometallurgical Treatment of an Eudialyte Concentrate for Preparation of Rare Earth Carbonate. Johnson Matthey Technology Review, 2019, 63, 2-13.	1.0	19
74	A Combined Pyro- and Hydrometallurgical Approach to Recycle Pyrolyzed Lithium-Ion Battery Black Mass Part 2: Lithium Recovery from Li Enriched Slag—Thermodynamic Study, Kinetic Study, and Dry Digestion. Metals, 2020, 10, 1558.	2.3	19
75	Review of the past, present, and future of the hydrometallurgical production of nickel and cobalt from lateritic ores. Metallurgical and Materials Engineering, 2020, 26, 199-208.	0.5	19
76	High Purity Germanium, a Review on Principle Theories and Technical Production Methodologies. Journal of Crystallization Process and Technology, 2017, 07, 65-84.	0.6	19
77	ESR Refining Potential for Titanium Alloys using a CaF ₂ -based Active Slag. Advanced Engineering Materials, 2007, 9, 246-252.	3.5	18
78	Decreased Lin7b Expression in Layer 5 Pyramidal Neurons May Contribute to Impaired Corticostriatal Connectivity in Huntington Disease. Journal of Neuropathology and Experimental Neurology, 2010, 69, 880-895.	1.7	18
79	Pyrometallurgical Treatment of High Manganese Containing Deep Sea Nodules. Journal of Sustainable Metallurgy, 2017, 3, 219-229.	2.3	18
80	Mineral Processing and Metallurgical Treatment of Lead Vanadate Ores. Minerals (Basel, Switzerland), 2020, 10, 197.	2.0	18
81	A cleaner approach for recovering Al and Ti from coal fly ash via microwave-assisted baking, leaching, and precipitation. Hydrometallurgy, 2021, 206, 105754.	4.3	18
82	Replacing Fossil Carbon in the Production of Ferroalloys with a Focus on Bio-Based Carbon: A Review. Minerals (Basel, Switzerland), 2021, 11, 1286.	2.0	18
83	Predicting thermodynamic properties in Ti—Al binary system by FactSage. Computational Materials Science, 2006, 37, 355-360.	3.0	17
84	Enhanced Homogenization Strategy by Electroslag Remelting of High-Manganese TRIP and TWIP Steels. Advanced Engineering Materials, 2011, 13, 395-399.	3.5	17
85	Definition of a First Process Window for Purification of Aluminum via “Cooled Finger” Crystallization Technique. Metals, 2017, 7, 341.	2.3	17
86	Synthesis and characterisation of spherical core-shell Ag/ZnO nanocomposites using single and two “ steps ultrasonic spray pyrolysis (USP). Catalysis Today, 2019, 321-322, 26-33.	4.4	17
87	Basic Sulfate Precipitation of Zirconium from Sulfuric Acid Leach Solution. Metals, 2020, 10, 1099.	2.3	17
88	Production of High Purity Metals: A Review on Zone Refining Process. Journal of Crystallization Process and Technology, 2018, 08, 33-55.	0.6	17
89	Immunomodulatory Properties of Nanoparticles Obtained by Ultrasonic Spray Pyrolysis from Gold Scrap. Journal of Biomedical Nanotechnology, 2012, 8, 528-538.	1.1	16
90	Computer modeling of high-pressure leaching process of nickel laterite by design of experiments and neural networks. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 584-594.	4.9	16

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91	Structure and Formation Model of Ag/TiO ₂ and Au/TiO ₂ Nanoparticles Synthesized through Ultrasonic Spray Pyrolysis. <i>Metals</i> , 2017, 7, 389.	2.3	16
92	Effectiveness of Fly Ash and Red Mud as Strategies for Sustainable Acid Mine Drainage Management. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 707.	2.0	16
93	Advances in Understanding of the Application of Unit Operations in Metallurgy of Rare Earth Elements. <i>Metals</i> , 2021, 11, 978.	2.3	16
94	Synthesis of Scandium Phosphate after Peroxide Assisted Leaching of Iron Depleted Bauxite Residue (Red Mud) Slags. <i>Scientific Reports</i> , 2019, 9, 11803.	3.3	15
95	Magnesiothermic Reduction from Titanium Dioxide to Produce Titanium Powder. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 219-229.	2.3	15
96	Mixed RuO ₂ /TiO ₂ uniform microspheres synthesized by low-temperature ultrasonic spray pyrolysis and their advanced electrochemical performances. <i>Applied Surface Science</i> , 2019, 464, 1-9.	6.1	15
97	Evaluation of Recyclability of a WEEE Slag by Means of Integrative X-Ray Computer Tomography and SEM-Based Image Analysis. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 309.	2.0	15
98	An Integrated Process for Innovative Extraction of Metals from Kupferschiefer Mine Dumps, Germany. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 1694-1703.	0.8	14
99	Recovery of Antimony Trioxide Flame Retardants from Lead Refining Residues by Slag Conditioning and Fuming. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1569-1579.	0.8	14
100	Synthesis of Poly-Alumino-Ferric Sulphate Coagulant from Acid Mine Drainage by Precipitation. <i>Metals</i> , 2019, 9, 1166.	2.3	14
101	Structural and Electrochemical Properties of Nesting and Core/Shell Pt/TiO ₂ Spherical Particles Synthesized by Ultrasonic Spray Pyrolysis. <i>Metals</i> , 2020, 10, 11.	2.3	14
102	Recycling Potential of Lithium-“Sulfur Batteries” A First Concept Using Thermal and Hydrometallurgical Methods. <i>Metals</i> , 2020, 10, 1513.	2.3	14
103	Investigation on the Electrochemical Behaviour and Deposition Mechanism of Neodymium in NdF ₃ -LiF-Nd ₂ O ₃ Melt on Mo Electrode. <i>Metals</i> , 2020, 10, 576.	2.3	14
104	Preparation of Vanadium Oxides from a Vanadium (IV) Strip Liquor Extracted from Vanadium-Bearing Shale Using an Eco-Friendly Method. <i>Metals</i> , 2018, 8, 994.	2.3	13
105	Characteristics of Ti6Al4V Powders Recycled from Turnings via the HDH Technique. <i>Metals</i> , 2018, 8, 336.	2.3	13
106	Formation of Non-Toxic Au Nanoparticles with Bimodal Size Distribution by a Modular Redesign of Ultrasonic Spray Pyrolysis. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 920-929.	0.4	13
107	Thermodynamic predicting of Si-Me (Me = Ti, Al) binary systems. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2007, 43, 29-38.	0.8	13
108	Large-scale production and quality assurance of hydrogen storage (battery) alloys. <i>Journal of Materials Engineering and Performance</i> , 1994, 3, 37-46.	2.5	12

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109	Kinetic modeling of thermal decomposition of zinc ferrite from neutral leach residues based on stochastic geometric model. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 358-359, 105-118.	2.3	12
110	Recycling of Rare Metals. , 2014, , 125-150.		12
111	Influencing Factors on the Melting Characteristics of NdFeB-Based Production Wastes for the Recovery of Rare Earth Compounds. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 168-178.	2.3	12
112	Morphology, Aggregation Properties, Cytocompatibility, and Anti-Inflammatory Potential of Citrate-Stabilized AuNPs Prepared by Modular Ultrasonic Spray Pyrolysis. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-17.	2.7	12
113	Purification of Aluminium Cast Alloy Melts through Precipitation of Fe-Containing Intermetallic Compounds. <i>Metals</i> , 2018, 8, 796.	2.3	12
114	Elimination of edge cracks and centerline segregation of twin-roll cast aluminum strip by ultrasonic melt treatment. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5034-5044.	5.8	12
115	Use of Treated Non-Ferrous Metallurgical Slags as Supplementary Cementitious Materials in Cementitious Mixtures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4028.	2.5	12
116	High- and Ultra-High-Purity Aluminum, a Review on Technical Production Methodologies. <i>Metals</i> , 2021, 11, 1407.	2.3	12
117	Au-nanoparticle synthesis via ultrasonic spray pyrolysis with a separate evaporation zone. <i>Materiali in Tehnologije</i> , 2015, 49, 791-796.	0.5	12
118	Thermodynamic study of Ti-V and Al-V systems using FactSage. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2006, 42, 57-65.	0.8	12
119	The Controlled Single-Step Synthesis of Ag/TiO ₂ and Au/TiO ₂ by Ultrasonic Spray Pyrolysis (USP). <i>Jom</i> , 2016, 68, 330-335.	1.9	11
120	Effect of vanadium ion valence state on the deposition behaviour in molten salt electrolysis. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 427-434.	2.9	11
121	Formation of Bimetallic Fe/Au Submicron Particles with Ultrasonic Spray Pyrolysis. <i>Metals</i> , 2018, 8, 278.	2.3	11
122	One Step Production of Silver-Copper (AgCu) Nanoparticles. <i>Metals</i> , 2021, 11, 1466.	2.3	11
123	Hydrometallurgical processing of nickel lateritic ores. <i>Military Technical Courier</i> , 2016, 64, 1033-1047.	0.7	11
124	Hydrometallurgical recycling of waste NdFeB magnets: design of experiment, optimisation of low concentrations of sulphuric acid leaching and process analysis. <i>Canadian Metallurgical Quarterly</i> , 2023, 62, 107-118.	1.2	11
125	Processing of Grinding Slurries Arising from NdFeB Magnet Production. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1589-1598.	0.8	10
126	Selective recovery and separation of Zr and Hf from sulfuric acid leach solution using anion exchange resin. <i>Hydrometallurgy</i> , 2019, 189, 105143.	4.3	10

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127	Kinetic Investigation of Silver Recycling by Leaching from Mechanical Pre-Treated Oxygen-Depolarized Cathodes Containing PTFE and Nickel. <i>Metals</i> , 2019, 9, 187.	2.3	10
128	Electrodeposition of titanium-vanadium alloys from chloride-based molten salts: influence of electrolyte chemistry and deposition potential on composition, morphology and microstructure. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 355-366.	2.9	10
129	Valorization of Rare Earth Elements from a Steenstrupine Concentrate Via a Combined Hydrometallurgical and Pyrometallurgical Method. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 248.	2.0	10
130	Alternative fractional crystallization-based methods to produce high-purity aluminum. <i>Journal of Materials Research and Technology</i> , 2021, 12, 796-806.	5.8	10
131	Development of Secondary Antimony Oxides from Metallurgical Slags for the Application in Plastic Products. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 683-689.	2.3	9
132	Computation-assisted analyzing and forecasting on impurities removal behavior during zone refining of antimony. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1221-1230.	5.8	9
133	Synthesis of Silica Particles Using Ultrasonic Spray Pyrolysis Method. <i>Metals</i> , 2021, 11, 463.	2.3	9
134	Melt Treatment of Copper and Aluminium - The Complex Step Before Casting. , 0, , 1-22.		9
135	Behaviour of non-standard composition copper bearing anodes from the copper refining process. <i>Journal of Hazardous Materials</i> , 2010, 182, 55-63.	12.4	8
136	Lead removal from brass scrap by fluorine-free compound separation. <i>Materials Science and Technology</i> , 2016, 32, 1782-1788.	1.6	8
137	New Science Based Concepts for Increased Efficiency in Battery Recycling. <i>Metals</i> , 2021, 11, 533.	2.3	8
138	Effect of Process Parameter Variation on Purity during Rotary Fractional Crystallization of Aluminum. <i>Open Journal of Metal</i> , 2017, 07, 25-38.	0.7	8
139	Mixed Oxides NiO/ZnO/Al ₂ O ₃ Synthesized in a Single Step via Ultrasonic Spray Pyrolysis (USP) Method. <i>Metals</i> , 2022, 12, 73.	2.3	8
140	Clinical Ethics and Patient Advocacy. <i>HEC Forum</i> , 2014, 26, 111-124.	0.8	7
141	Deoxidation Limits of Titanium Alloys during Pressure Electro Slag Remelting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 143, 012009.	0.6	7
142	Sustainable Utilization of Metals-Processing, Recovery and Recycling. <i>Metals</i> , 2019, 9, 769.	2.3	7
143	Stable nano-silver colloid production via Laser Ablation Synthesis in Solution (LASiS) under laminar recirculatory flow. <i>Advances in Materials and Processing Technologies</i> , 2020, 6, 677-685.	1.4	7
144	Comparing the environmental performance of industrial recycling routes for lithium nickel-cobalt-manganese oxide 111 vehicle batteries. <i>Procedia CIRP</i> , 2021, 98, 97-102.	1.9	7

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145	Aluminothermic production of titanium alloys (Part 2): Impact of activated rutile on process sustainability. Metallurgical and Materials Engineering, 2015, 21, 101-114.	0.5	7
146	Evaluation and Modeling of Chemical Segregation Effects for Thixoforming Processing. Advanced Engineering Materials, 2003, 5, 156-160.	3.5	6
147	Semi-Solid Processing of Tailored Aluminium-Lithium Alloys for Automotive Applications. Advanced Engineering Materials, 2007, 9, 253-258.	3.5	6
148	Rückgewinnung von Wertmetallen aus Batterieschrott. Chemie-Ingenieur-Technik, 2010, 82, 1985-1990.	0.8	6
149	Gene expression analysis on a single cell level in Purkinje cells of Huntington's disease transgenic mice. Neuroscience Letters, 2012, 517, 7-12.	2.1	6
150	Anodic dissolution of vanadium in molten LiCl-KCl-TiCl ₂ . Journal of Applied Electrochemistry, 2017, 47, 573-581.	2.9	6
151	An Estimation of PFC Emission by Rare Earth Electrolysis. Minerals, Metals and Materials Series, 2018, , 1507-1517.	0.4	6
152	The Submerged Arc Furnace (SAF): State-of-the-Art Metal Recovery from Nonferrous Slags. Journal of Sustainable Metallurgy, 2018, 4, 77-94.	2.3	6
153	Realization of the Zone Length Measurement during Zone Refining Process via Implementation of an Infrared Camera. Applied Sciences (Switzerland), 2018, 8, 875.	2.5	6
154	Alternative Silver Production by Environmental Sound Processing of a Sulfo Salt Silver Mineral Found in Bolivia. Metals, 2018, 8, 114.	2.3	6
155	Morphology of Composite Fe@Au Submicron Particles, Produced with Ultrasonic Spray Pyrolysis and Potential for Synthesis of Fe@Au Core-Shell Particles. Materials, 2019, 12, 3326.	2.9	6
156	Recovery of Gallium from Smartphones – Part II: Oxidative Alkaline Pressure Leaching of Gallium from Pyrolysis Residue. Metals, 2020, 10, 1565.	2.3	6
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