

BurÅ§ak Ebin

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,130
citations

361413

20
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

1023
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of critical metals from EV batteries via thermal treatment and leaching with sulphuric acid at ambient temperature. <i>Waste Management</i> , 2022, 140, 164-172.	7.4	8
2	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
3	Production of AB ₅ materials from spent Ni-MH batteries with further tests of hydrogen storage suitability. <i>Journal of Power Sources</i> , 2022, 539, 231459.	7.8	9
4	Comparison of the effects of incineration, vacuum pyrolysis and dynamic pyrolysis on the composition of NMC-lithium battery cathode-material production scraps and separation of the current collector. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105142.	10.8	50
5	Hydrometallurgical recycling of EV lithium-ion batteries: Effects of incineration on the leaching efficiency of metals using sulfuric acid. <i>Waste Management</i> , 2021, 125, 192-203.	7.4	64
6	Waste of batteries management: Synthesis of magnetocaloric manganite compound from the REEs mixture generated during hydrometallurgical processing of NiMH batteries. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00267.	3.3	0
7	Innovative recycling of organic binders from electric vehicle lithium-ion batteries by supercritical carbon dioxide extraction. <i>Resources, Conservation and Recycling</i> , 2021, 172, 105666.	10.8	37
8	One Step Production of Silver-Copper (AgCu) Nanoparticles. <i>Metals</i> , 2021, 11, 1466.	2.3	11
9	Investigation of indium and other valuable metals leaching from unground waste LCD screens by organic and inorganic acid leaching. <i>Separation and Purification Technology</i> , 2021, 279, 119659.	7.9	21
10	Novel process for decontamination and additional valorization of steel making dust processing using two-step correlative leaching. <i>Journal of Hazardous Materials</i> , 2020, 384, 121442.	12.4	6
11	Novel Strategy for One-Step Production of Attenuated Ag-Containing AgCu/ZnO Antibacterial-Antifungal Nanocomposite Particles. <i>Powder Metallurgy and Metal Ceramics</i> , 2020, 59, 261-270.	0.8	2
12	Major challenges and opportunities in silicon solar module recycling. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 1077-1088.	8.1	82
13	Incineration of EV Lithium-ion batteries as a pretreatment for recycling – Determination of the potential formation of hazardous by-products and effects on metal compounds. <i>Journal of Hazardous Materials</i> , 2020, 393, 122372.	12.4	70
14	Production of Energy Saving Materials from the Waste Mixtures of REEs. <i>Minerals, Metals and Materials Series</i> , 2020, , 67-76.	0.4	0
15	Chemical Transformations in Li-Ion Battery Electrode Materials by Carbothermic Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13668-13679.	6.7	93
16	Considerations when Modelling EV Battery Circularity Systems. <i>Batteries</i> , 2019, 5, 40.	4.5	25
17	Selective recovery of cobalt from the secondary streams after NiMH batteries processing using Cyanex 301. <i>Waste Management</i> , 2019, 83, 194-201.	7.4	15
18	Recovery of industrial valuable metals from household battery waste. <i>Waste Management and Research</i> , 2019, 37, 168-175.	3.9	21

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19	Investigation of the effects of thermal treatment on the leachability of Zn and Mn from discarded alkaline and Zn C batteries. <i>Journal of Cleaner Production</i> , 2018, 170, 1195-1205.	9.3	23
20	Simple Preparation of Ni and NiO Nanoparticles Using Raffinate Solution Originated from Spent NiMH Battery Recycling. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2554-2563.	3.7	26
21	Physical separation, mechanical enrichment and recycling-oriented characterization of spent NiMH batteries. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 2018-2027.	3.0	38
22	HF-Free Synthesis of ZrPO_4 -Zirconium Phosphate and Its Use as Ion Exchanger for Separation of Nd(III) and Dy(III) from a Ternary Co-Nd-Dy System. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 646-658.	2.3	10
23	Effects of the particle properties on electrochemical performance of nanocrystalline $\text{LiAlO}_2\text{Cu}_0.1\text{Mn}_1.8\text{O}_4$ cathode materials prepared by ultrasonic spray pyrolysis. <i>Journal of Electroanalytical Chemistry</i> , 2017, 792, 1-7.	3.8	4
24	Investigation of zinc recovery by hydrogen reduction assisted pyrolysis of alkaline and zinc-carbon battery waste. <i>Waste Management</i> , 2017, 68, 508-517.	7.4	21
25	Synthesis, structural and magnetic characterization of soft magnetic nanocrystalline ternary FeNiCo particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 423, 133-139.	2.3	16
26	Pyrometallurgical Processes for the Recovery of Metals from WEEE. , 2016, , 107-137.		22
27	Disassembly of old radium sources and conversion of radium sulfate into radium carbonate for subsequent dissolution in acid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 310, 589-595.	1.5	15
28	Effects of gas flow rate on zinc recovery rate and particle properties by pyrolysis of alkaline and zinc-carbon battery waste. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 333-341.	5.5	14
29	Single-Step Production of Nanostructured Copper-Nickel (CuNi) and Copper-Nickel-Indium (CuNiIn) Alloy Particles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3744-3752.	2.2	10
30	Production of zinc and manganese oxide particles by pyrolysis of alkaline and Zn-C battery waste. <i>Waste Management</i> , 2016, 51, 157-167.	7.4	48
31	Preparation and electrochemical properties of nanocrystalline $\text{LiB}_x\text{Mn}_{2-x}\text{O}_4$ cathode particles for Li-ion batteries by ultrasonic spray pyrolysis method. <i>Journal of Alloys and Compounds</i> , 2015, 620, 399-406.	5.5	28
32	Preparation and electrochemical properties of spinel $\text{LiFe}_x\text{Cu}_y\text{Mn}_{1.2-x-y}\text{O}_4$ by ultrasonic spray pyrolysis. <i>Ceramics International</i> , 2014, 40, 1019-1027.	4.8	17
33	Photocatalytic studies of Ag/ZnO nanocomposite particles produced via ultrasonic spray pyrolysis method. <i>Journal of Alloys and Compounds</i> , 2014, 586, 267-273.	5.5	38
34	Comparison of 4V and 3V electrochemical properties of nanocrystalline LiMn_2O_4 cathode particles in lithium ion batteries prepared by ultrasonic spray pyrolysis. <i>Ceramics International</i> , 2014, 40, 7029-7035.	4.8	16
35	Reduction and characterizations of iron particles: influence of reduction parameters. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2602-2609.	2.2	2
36	Production of nanocrystalline silver particles by hydrogen reduction of silver nitrate aerosol droplets. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 841-848.	4.2	8

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37	Simple preparation of CuO nanoparticles and submicron spheres via ultrasonic spray pyrolysis (USP). International Journal of Materials Research, 2013, 104, 199-206.	0.3	14
38	Direct production of nanostructured copper-nickel (Cu-Ni) alloy particles. AIP Conference Proceedings, 2013, , .	0.4	3
39	Production and characterization of submicron hematite (Fe_2O_3) particles by ultrasonic spray pyrolysis method. , 2013, , .		2
40	Preparation and magnetic characterization of Fe/metal oxide nanocomposite particles by means of hydrogen reduction assisted ultrasonic spray pyrolysis (USP-HR). International Journal of Materials Research, 2013, 104, 483-488.	0.3	5
41	Electrochemical properties of nanocrystalline $\text{LiCu}_x\text{Mn}_{2-x}\text{O}_4$ ($x=0.2-0.6$) particles prepared by ultrasonic spray pyrolysis method. Materials Chemistry and Physics, 2012, 136, 424-430.	4.0	14
42	Production and characterization of ZnO nanoparticles and porous particles by ultrasonic spray pyrolysis using a zinc nitrate precursor. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 651-656.	4.9	31
43	Electrochemical properties of nanocrystalline $\text{LiFe}_x\text{Mn}_{2-x}\text{O}_4$ ($x=0.2-1.0$) cathode particles prepared by ultrasonic spray pyrolysis method. Electrochimica Acta, 2012, 76, 368-374.	5.2	19
44	Synthesis and Characterization of Nickel Particles by Hydrogen Reduction Assisted Ultrasonic Spray Pyrolysis(USP-HR) Method. KONA Powder and Particle Journal, 2011, 29, 134-140.	1.7	22
45	Production and characterization of the nanostructured hollow iron oxide spheres and nanoparticles by aerosol route. Journal of Alloys and Compounds, 2010, 492, 585-589.	5.5	42
46	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
47	Synthesis of nano-crystalline spherical cobalt-iron (Co-Fe) alloy particles by ultrasonic spray pyrolysis and hydrogen reduction. Journal of Alloys and Compounds, 2009, 481, 600-604.	5.5	37