

# 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	Chemical Transformations in Li-Ion Battery Electrode Materials by Carbothermic Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 13668-13679.	6.7	93
2	Major challenges and opportunities in silicon solar module recycling. Progress in Photovoltaics: Research and Applications, 2020, 28, 1077-1088.	8.1	82
3	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. Journal of Hazardous Materials, 2020, 393, 122372.	12.4	70
4	Hydrometallurgical recycling of EV lithium-ion batteries: Effects of incineration on the leaching efficiency of metals using sulfuric acid. Waste Management, 2021, 125, 192-203.	7.4	64
5	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
6	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. Resources, Conservation and Recycling, 2021, 164, 105142.	10.8	50
7	Production of zinc and manganese oxide particles by pyrolysis of alkaline and Zn–C battery waste. Waste Management, 2016, 51, 157-167.	7.4	48
8	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
9	Photocatalytic studies of Ag/ZnO nanocomposite particles produced via ultrasonic spray pyrolysis method. Journal of Alloys and Compounds, 2014, 586, 267-273.	5.5	38
10	Physical separation, mechanical enrichment and recycling-oriented characterization of spent NiMH batteries. Journal of Material Cycles and Waste Management, 2018, 20, 2018-2027.	3.0	38
11	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
12	Innovative recycling of organic binders from electric vehicle lithium-ion batteries by supercritical carbon dioxide extraction. Resources, Conservation and Recycling, 2021, 172, 105666.	10.8	37
13	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
14	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. Journal of Alloys and Compounds, 2015, 620, 399-406.	5.5	28
15	Simple Preparation of Ni and NiO Nanoparticles Using Raffinate Solution Originated from Spent NiMH Battery Recycling. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2554-2563.	3.7	26
16	Considerations when Modelling EV Battery Circularity Systems. Batteries, 2019, 5, 40.	4.5	25
17	Investigation of the effects of thermal treatment on the leachability of Zn and Mn from discarded alkaline and Zn C batteries. Journal of Cleaner Production, 2018, 170, 1195-1205.	9.3	23
18	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

#	ARTICLE	IF	CITATIONS
19	Pyrometallurgical Processes for the Recovery of Metals from WEEE. , 2016, , 107-137.		22
20	Investigation of zinc recovery by hydrogen reduction assisted pyrolysis of alkaline and zinc-carbon battery waste. Waste Management, 2017, 68, 508-517.	7.4	21
21	Recovery of industrial valuable metals from household battery waste. Waste Management and Research, 2019, 37, 168-175.	3.9	21
22	Investigation of indium and other valuable metals leaching from unground waste LCD screens by organic and inorganic acid leaching. Separation and Purification Technology, 2021, 279, 119659.	7.9	21
23	Electrochemical properties of nanocrystalline $\text{LiFe}_x\text{Mn}_{2-x}\text{O}_4$ ( $x=0.2\text{--}1.0$ ) cathode particles prepared by ultrasonic spray pyrolysis method. Electrochimica Acta, 2012, 76, 368-374.	5.2	19
24	Preparation and electrochemical properties of spinel $\text{LiFe}_x\text{Cu}_y\text{Mn}_{1.2-0.4}$ by ultrasonic spray pyrolysis. Ceramics International, 2014, 40, 1019-1027.	4.8	17
25	Comparison of 4V and 3V electrochemical properties of nanocrystalline $\text{LiMn}_2\text{O}_4$ cathode particles in lithium ion batteries prepared by ultrasonic spray pyrolysis. Ceramics International, 2014, 40, 7029-7035.	4.8	16
26	Synthesis, structural and magnetic characterization of soft magnetic nanocrystalline ternary FeNiCo particles. Journal of Magnetism and Magnetic Materials, 2017, 423, 133-139.	2.3	16
27	Disassembly of old radium sources and conversion of radium sulfate into radium carbonate for subsequent dissolution in acid. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 589-595.	1.5	15
28	Selective recovery of cobalt from the secondary streams after NiMH batteries processing using Cyanex 301. Waste Management, 2019, 83, 194-201.	7.4	15
29	Electrochemical properties of nanocrystalline $\text{LiCu}_x\text{Mn}_{2-x}\text{O}_4$ ( $x=0.2\text{--}0.6$ ) particles prepared by ultrasonic spray pyrolysis method. Materials Chemistry and Physics, 2012, 136, 424-430.	4.0	14
30	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
31	Effects of gas flow rate on zinc recovery rate and particle properties by pyrolysis of alkaline and zinc-carbon battery waste. Journal of Analytical and Applied Pyrolysis, 2016, 121, 333-341.	5.5	14
32	One Step Production of Silver-Copper (AgCu) Nanoparticles. Metals, 2021, 11, 1466.	2.3	11
33	Single-Step Production of Nanostructured Copper-Nickel (CuNi) and Copper-Nickel-Indium (CuNiIn) Alloy Particles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3744-3752.	2.2	10
34	HF-Free Synthesis of $\text{Zr}_2\text{P}_2\text{O}_7$ -Zirconium Phosphate and Its Use as Ion Exchanger for Separation of Nd(III) and Dy(III) from a Ternary Co $\text{--}$ Nd $\text{--}$ Dy System. Journal of Sustainable Metallurgy, 2017, 3, 646-658.	2.3	10
35	Production of AB <sub>5</sub> materials from spent Ni-MH batteries with further tests of hydrogen storage suitability. Journal of Power Sources, 2022, 539, 231459.	7.8	9
36	Production of nanocrystalline silver particles by hydrogen reduction of silver nitrate aerosol droplets. Transactions of Nonferrous Metals Society of China, 2013, 23, 841-848.	4.2	8

#	ARTICLE	IF	CITATIONS
37	Recovery of critical metals from EV batteries via thermal treatment and leaching with sulphuric acid at ambient temperature. Waste Management, 2022, 140, 164-172.	7.4	8
38	Mixed Oxides NiO/ZnO/Al <sub>2</sub> O <sub>3</sub> Synthesized in a Single Step via Ultrasonic Spray Pyrolysis (USP) Method. Metals, 2022, 12, 73.	2.3	8
39	Novel process for decontamination and additional valorization of steel making dust processing using two-step correlative leaching. Journal of Hazardous Materials, 2020, 384, 121442.	12.4	6
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	Effects of the particle properties on electrochemical performance of nanocrystalline LiAl <sub>0.1</sub> Cu <sub>0.1</sub> Mn <sub>1.8</sub> O <sub>4</sub> cathode materials prepared by ultrasonic spray pyrolysis. Journal of Electroanalytical Chemistry, 2017, 792, 1-7.	3.8	4
42	Direct production of nanostructured copper-nickel (Cu-Ni) alloy particles. AIP Conference Proceedings, 2013, , .	0.4	3
43	Reduction and characterizations of iron particles: influence of reduction parameters. Journal of Materials Science: Materials in Electronics, 2013, 24, 2602-2609.	2.2	2
44	Production and characterization of submicron hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) particles by ultrasonic spray pyrolysis method. , 2013, , .		2
45	Novel Strategy for One-Step Production of Attenuated Ag-Containing AgCu/ZnO Antibacterial-Antifungal Nanocomposite Particles. Powder Metallurgy and Metal Ceramics, 2020, 59, 261-270.	0.8	2
46	Waste of batteries management: Synthesis of magnetocaloric manganite compound from the REEs mixture generated during hydrometallurgical processing of NiMH batteries. Sustainable Materials and Technologies, 2021, 28, e00267.	3.3	0
47	Production of Energy Saving Materials from the Waste Mixtures of REEs. Minerals, Metals and Materials Series, 2020, , 67-76.	0.4	0