List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Effect of gas–solid interface on pore wall microstructure evolution during thermal melting of foamed ceramics. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2035-2046.	2.0	1
2	Constructing an artificial boundary to regulate solid electrolyte interface formation and synergistically enhance stability of nano-Si anodes. Journal of Colloid and Interface Science, 2022, 619, 158-167.	5.0	12
3	Short-Process Multiscale Core–Shell Structure Buffer Control of a Ni/N Codoped Si@C Composite Using Waste Silicon Powder for Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 178-185.	2.5	5
4	Design of Refining Slag Based on Structural Modifications Associated with the Boron Removal for SoG-Si. Materials, 2022, 15, 3107.	1.3	2
5	A new sustainable concept for silicon recovery from diamond wire saw silicon powder waste: Source control and comprehensive conservation. Journal of Cleaner Production, 2022, 358, 131961.	4.6	7
6	Innovative separation model for boron removal from silicon during slag refining based on ion and molecule coexistence theory. Metallurgical Research and Technology, 2022, 119, 304.	0.4	0
7	Numerical Simulation of Flow Field Optimizing the Rotating Segregation Purification of Silicon for SoG-Si. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 2657-2674.	1.0	1
8	Study on hydrocyclone separation enhancement of micro Si/SiC from silicon-sawing waste by selective comminution. Separation Science and Technology, 2021, 56, 991-999.	1.3	2
9	Glass-ceramics microstructure formation mechanism for simultaneous solidification of chromium and nickel from disassembled waste battery and chromium slag. Journal of Hazardous Materials, 2021, 403, 123598.	6.5	26
10	Development of calcium coke for CaC2 production using calcium carbide slag and coking coal. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 76-87.	2.4	16
11	Silicon recovery from diamond wire saw silicon powder waste with hydrochloric acid pretreatment: An investigation of Al dissolution behavior. Waste Management, 2021, 120, 820-827.	3.7	62
12	A flexible and conductive connection introduced by cross-linked CNTs between submicron Si@C particles for better performance LIB anode. Nanoscale Advances, 2021, 3, 2287-2294.	2.2	10
13	Novel Application of Electroslag Remelting Refining in the Removal of Boron and Phosphorus from Silicon Alloy for Silicon Recovery. ACS Sustainable Chemistry and Engineering, 2021, 9, 2962-2974.	3.2	18
14	Waste to wealth: Defect-rich Ni-incorporated spent LiFePO4 for efficient oxygen evolution reaction. Science China Materials, 2021, 64, 2710-2718.	3.5	41
15	Enhanced In Situ Separation of Boron at the Silicon Alloy Solidification Interface through Innovating the Impurity Chemical Reconstruction Approach for SoG-Si. ACS Sustainable Chemistry and Engineering, 2021, 9, 11179-11193.	3.2	4
16	Millisecond Conversion of Photovoltaic Silicon Waste to Binderâ€Free High Silicon Content Nanowires Electrodes. Advanced Energy Materials, 2021, 11, 2102103.	10.2	48
17	Fe <sub>3</sub> C doped modified nano-Si/C composites as high-coulombic-efficiency anodes for lithium-ion batteries. Sustainable Energy and Fuels, 2021, 5, 6170-6180.	2.5	5
18	Millisecond Conversion of Photovoltaic Silicon Waste to Binderâ€Free High Silicon Content Nanowires Electrodes (Adv. Energy Mater. 40/2021). Advanced Energy Materials, 2021, 11, .	10.2	0

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19	Design of Refining Slag Based on Raman and NMR Spectroscopy Study for Removing Phosphorus for SoG-Si. Silicon, 2020, 12, 171-183.	1.8	8
20	Role of Oxygen Potential and Oxygen Ions on Phosphorus Removal from Silicon via Addition of FeO into Slag. Silicon, 2020, 12, 1145-1156.	1.8	2
21	Enhancing impurities removal from Si by controlling crystal growth in directional solidification refining with Al–Si alloy. Journal of Alloys and Compounds, 2020, 820, 153300.	2.8	16
22	Dissolution and mineralization behavior of metallic impurity content in diamond wire saw silicon powder during acid leaching. Journal of Cleaner Production, 2020, 248, 119256.	4.6	40
23	Occurrence State and Dissolution Mechanism of Metallic Impurities in Diamond Wire Saw Silicon Powder. ACS Sustainable Chemistry and Engineering, 2020, 8, 12577-12587.	3.2	18
24	Recovery of Silicon via Using KOH-Ethanol Solution by Separating Different Layers of End-of-Life PV Modules. Jom, 2020, 72, 2624-2632.	0.9	17
25	Novel Reaction Media of Na <sub>2</sub> CO <sub>3</sub> –CaO for Silicon Extraction and Aluminum Removal from Diamond Wire Saw Silicon Powder by Roasting–Smelting Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 4146-4157.	3.2	34
26	Hollow double-layer carbon nanocage confined Si nanoparticles for high performance lithium-ion batteries. Nanoscale Advances, 2020, 2, 3222-3230.	2.2	16
27	Joint caching and computing resource allocation for task offloading in vehicular networks. IET Communications, 2020, 14, 3820-3827.	1.5	2
28	Improve titanate reduction by electro-deoxidation of Ca3Ti2O7 precursor in molten CaCl2. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1618-1625.	2.4	6
29	Thermodynamic analysis and experimental verification for silicon recovery from the diamond wire saw silicon powder by vacuum carbothermal reduction. Separation and Purification Technology, 2019, 228, 115754.	3.9	65
30	Effect of B2O3 Addition on Electrical Conductivity and Structural Roles of CaO-SiO2-B2O3 Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 304-311.	1.0	10
31	N-Doped gel-structures for construction of long cycling Si anodes at high current densities for high performance lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 11347-11354.	5.2	29
32	Preparation of CaO-containing carbon pellet from recycling of carbide slag: Effects of temperature and H3PO4. Waste Management, 2019, 84, 64-73.	3.7	22
33	The mechanism of boron removal from silicon alloy by electric field using slag treatment. Separation and Purification Technology, 2018, 199, 134-139.	3.9	27
34	Formation of Amorphous Calcium Carbonate and Its Transformation Mechanism to Crystalline CaCO <sub>3</sub> in Laminar Microfluidics. Crystal Growth and Design, 2018, 18, 1710-1721.	1.4	30
35	CO2 Absorption of Powdered Ba2Fe2O5 with Different Particle Size. High Temperature Materials and Processes, 2018, 37, 1001-1006.	0.6	2
36	Self‣upporting Porous CoPâ€Based Films with Phase‣eparation Structure for Ultrastable Overall Water Electrolysis at Large Current Density. Advanced Energy Materials, 2018, 8, 1802445.	10.2	114

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37	Insights into the Confined Crystallization in Microfluidics of Amorphous Calcium Carbonate. Crystal Growth and Design, 2018, 18, 6538-6546.	1.4	16
38	Direct Electrodeposition of Ga and the Simultaneous Production of NaOH and NaHCO <sub>3</sub> from Carbonated Spent Liquor by Membrane Electrolysis. Industrial & Engineering Chemistry Research, 2018, 57, 12583-12589.	1.8	3
39	Hierarchically 3D porous films electrochemically constructed on gas–liquid–solid three-phase interface for energy application. Journal of Materials Chemistry A, 2017, 5, 9488-9513.	5.2	76
40	Competition of Oxygen Evolution and Desulfurization for Bauxite Electrolysis. Industrial & Engineering Chemistry Research, 2017, 56, 6136-6144.	1.8	15
41	Electrochemical preparation of V2O3 from NaVO3 and its reduction mechanism. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1019-1024.	0.4	10
42	The Importance of Slag Structure to Boron Removal from Silicon during the Refining Process: Insights from Raman and Nuclear Magnetic Resonance Spectroscopy Study. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3239-3250.	1.0	12
43	Mechanism Analysis of Carbon Contamination and the Inhibition by an Anode Structure during Soluble K <sub>2</sub> CrO <sub>4</sub> Electrolysis in CaCl <sub>2</sub> -KCl Molten Salt. Journal of the Electrochemical Society, 2017, 164, E360-E366.	1.3	16
44	Experimental Study on Electrical Conductivity of MnO-CaO-SiO2 Slags at 1723ÂK to 1823ÂK (1450°C to) T Metallurgy and Materials Processing Science, 2017, 48, 3359-3363.	j ETQq0 0 0 1.0	) rgBT /Overlo 4
45	Time-Dependent Surface Structure Evolution of NiMo Films Electrodeposited Under Super Gravity Field as Electrocatalyst for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2017, 121, 16792-16802.	1.5	20
46	Roles of Electrolyte Characterization on Bauxite Electrolysis Desulfurization with Regeneration and Recycling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 726-732.	1.0	14
47	Removal of Phosphorus in Silicon by the Formation of CaAl2Si2 Phase at the Solidification Interface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 420-428.	1.0	15
48	Boehmite Preparation via Alditols-Interacting Transformation of Metastable Intermediates in Al–H <sub>2</sub> 0 Reaction Crystallization. Crystal Growth and Design, 2017, 17, 183-190.	1.4	4
49	Influence of Particle Size Distribution on Agglomeration/defluidization of Iron Powders at Elevated Temperature. ISIJ International, 2017, 57, 649-655.	0.6	12
50	Relationship Between Iron Whisker Growth and Doping Amount of Oxide During Fe2O3 Reduction. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1137-1146.	1.0	8
51	Desulfurization from Bauxite Water Slurry (BWS) Electrolysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 649-656.	1.0	10
52	Decomposition Kinetics of Titania Slag in Eutectic NaOH-NaNO3 System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 666-674.	1.0	4
53	Alumina Hydrate Polymorphism Control in Al–Water Reaction Crystallization by Seeding to Change the Metastable Zone Width. Crystal Growth and Design, 2016, 16, 1056-1062.	1.4	16
54	Oxidation behavior of metallurgical silicon slag under non-isothermal and isothermal conditions. Journal of Thermal Analysis and Calorimetry, 2016, 124, 593-599.	2.0	7

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55	Progress toward Electrochemistry Intensified by using Supergravity Fields. ChemElectroChem, 2015, 2, 1879-1887.	1.7	20
56	Sulfur removal from bauxite water slurry (BWS) electrolysis intensified by ultrasonic. Ultrasonics Sonochemistry, 2015, 26, 142-148.	3.8	19
57	The corrosion resistance of Ni anode and Ga electrowinning in alkaline sulfide solutions. Journal of Applied Electrochemistry, 2015, 45, 1255-1263.	1.5	6
58	Insight of Iron Whisker Sticking Mechanism from Iron Atom Diffusion and Calculation of Solid Bridge Radius. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2050-2056.	1.0	25
59	Sulfur removal from ionic liquid-assisted coal water slurry electrolysis in KNO3 system. Journal of Fuel Chemistry and Technology, 2013, 41, 928-936.	0.9	26
60	Impurities Removal from Metallurgical-Grade Silicon by Combined Sn-Si and Al-Si Refining Processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 828-836.	1.0	53
61	Modulation of active Cr(III) complexes by bath preparation to adjust Cr(III) electrodeposition. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 902-908.	2.4	7
62	Characterization of Precipitated Carbon by XPS and Its Prevention Mechanism of Sticking during Reduction of Fe2O3 Particles in the Fluidized Bed. ISIJ International, 2013, 53, 411-418.	0.6	20
63	Si purification by solidification of Al–Si melt with super gravity. Transactions of Nonferrous Metals Society of China, 2012, 22, 958-963.	1.7	67
64	Low-temperature purification process of metallurgical silicon. Transactions of Nonferrous Metals Society of China, 2011, 21, 1185-1192.	1.7	58
65	Relation between Sticking and Metallic Iron Precipitation on the Surface of Fe2O3 Particles Reduced by CO in the Fluidized Bed. ISIJ International, 2011, 51, 1403-1409.	0.6	42
66	Effects of gravity on the electrodeposition and characterization of nickel foils. International Journal of Minerals, Metallurgy and Materials, 2011, 18, 59-65.	2.4	9
67	Influences of Super-Gravity Field on Aluminum Grain Refining. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 670-675.	1.1	47
68	Removal of Low-Content Impurities from Al By Super-Gravity. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 505-508.	1.0	68
69	Application of Modified Coke to NOx Reduction with Recycling Flue Gas during Iron Ore Sintering Process. ISIJ International, 2008, 48, 1517-1523.	0.6	26
70	Rationally designed highâ€conductivity <i>Hydrangea macrophylla</i> â€like Si@NiO@Ni/C composites as a highâ€performance anode material for lithiumâ€ion batteries. Electrochemical Science Advances, 0, , .	1.2	0