

Yongsheng Ren

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

296
citations

759233

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#	ARTICLE	IF	CITATIONS
1	A novel approach for simultaneous recycling of Ti-bearing blast furnace slag, diamond wire saw Si powder, and Al alloy scrap for preparing TiSi ₂ and Al-Si alloys. <i>Journal of Hazardous Materials</i> , 2022, 427, 127905.	12.4	14
2	An approach to prepare high-purity TiSi ₂ for clean utilization of Ti-bearing blast furnace slag. <i>Green Chemistry</i> , 2022, 24, 3344-3357.	9.0	5
3	Evolution Mechanism of Solid-Liquid Interface of Large-Sized Bulk Polysilicon via Si-Sn Solution Growth. <i>Crystal Growth and Design</i> , 2022, 22, 2066-2070.	3.0	2
4	Recent progress in upgrading metallurgical-grade silicon to solar-grade silicon via pyrometallurgical routes. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 767-782.	4.9	2
5	Effect of AC as a reductant through the coupling treatment of microwave-assisted and alkali carbonate on silicon production. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152737.	5.5	6
6	Effect of electromagnetic strengthening on microstructure of precipitates in metallurgical grade silicon. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152507.	5.5	10
7	Occurrence State and Dissolution Mechanism of Metallic Impurities in Diamond Wire Saw Silicon Powder. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12577-12587.	6.7	18
8	Preparation of high-purity Ti-Si alloys by vacuum directional solidification. <i>Journal of Alloys and Compounds</i> , 2020, 832, 153989.	5.5	17
9	Low-Temperature Process for the Fabrication of Low-Boron Content Bulk Si from Si-Cu Solution with Zr Addition. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6853-6860.	6.7	23
10	Formation Mechanism of ZrB ₂ in a Si-Cu Melt and Its Potential Application for Refining Si and Recycling Si Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 20107-20113.	6.7	20
11	Controllable nano-texturing of diamond wire sawing polysilicon wafers through low-cost copper catalyzed chemical etching. <i>Materials Letters</i> , 2018, 221, 85-88.	2.6	13
12	Separation mechanism of TiSi ₂ crystals from a Ti-Si eutectic alloy via directional solidification. <i>Journal of Alloys and Compounds</i> , 2018, 750, 102-110.	5.5	19
13	Growth control and enrichment of Si crystals from Si-Sn melt by directional solidification. <i>Vacuum</i> , 2018, 158, 86-92.	3.5	22
14	An approach to employ titanium-bearing blast-furnace slag to prepare Ti and Al-Si alloys. <i>Journal of Alloys and Compounds</i> , 2018, 769, 983-990.	5.5	32
15	Application of molecular interaction volume model for predicting the Ca activity coefficients in Si-Ca binary and Si-Ca-Pb ternary alloys. <i>Vacuum</i> , 2016, 128, 106-111.	3.5	5
16	Influence of carbothermic reduction on submerged arc furnace energy efficiency during silicon production. <i>Energy</i> , 2016, 116, 687-693.	8.8	35
17	Numerical simulation and experimental verification of vacuum directional solidification process for multicrystalline silicon. <i>Vacuum</i> , 2015, 116, 96-103.	3.5	16
18	Degassing of aluminum alloys via the electromagnetic directional solidification. <i>Vacuum</i> , 2014, 109, 82-85.	3.5	25

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19	Low-Cost Process for Silicon Purification with Bubble Adsorption in Al-Si Melt. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1573-1578.	2.1	11
20	3D-structure-attention graph neural network for crystals and materials. Molecular Physics, 0, , .	1.7	1