Yongsheng Ren

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5484844/publications.pdf

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20	296	759233 12	940533 16
papers	citations	h-index	g-index

20	20	20	176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of carbothermic reduction on submerged arc furnace energy efficiency during silicon production. Energy, 2016, 116, 687-693.	8.8	35
2	An approach to employ titanium-bearing blast-furnace slag to prepare Ti and Alâ€“Si alloys. Journal of Alloys and Compounds, 2018, 769, 983-990.	5.5	32
3	Degassing of aluminum alloys via the electromagnetic directional solidification. Vacuum, 2014, 109, 82-85.	3.5	25
4	Low-Temperature Process for the Fabrication of Low-Boron Content Bulk Si from Siâ€“Cu Solution with Zr Addition. ACS Sustainable Chemistry and Engineering, 2020, 8, 6853-6860.	6.7	23
5	Growth control and enrichment of Si crystals from Si-Sn melt by directional solidification. Vacuum, 2018, 158, 86-92.	3.5	22
6	Formation Mechanism of ZrB₂ in a Siâ€“Cu Melt and Its Potential Application for Refining Si and Recycling Si Waste. ACS Sustainable Chemistry and Engineering, 2019, 7, 20107-20113.	6.7	20
7	Separation mechanism of TiSi2 crystals from a Ti-Si eutectic alloy via directional solidification. Journal of Alloys and Compounds, 2018, 750, 102-110.	5.5	19
8	Occurrence State and Dissolution Mechanism of Metallic Impurities in Diamond Wire Saw Silicon Powder. ACS Sustainable Chemistry and Engineering, 2020, 8, 12577-12587.	6.7	18
9	Preparation of high-purity Tiâ€“Si alloys by vacuum directional solidification. Journal of Alloys and Compounds, 2020, 832, 153989.	5.5	17
10	Numerical simulation and experimental verification of vacuum directional solidification process for multicrystalline silicon. Vacuum, 2015, 116, 96-103.	3.5	16
11	A novel approach for simultaneous recycling of Ti-bearing blast furnace slag, diamond wire saw Si powder, and Al alloy scrap for preparing TiSi2 and Al-Si alloys. Journal of Hazardous Materials, 2022, 427, 127905.	12.4	14
12	Controllable nano-texturing of diamond wire sawing polysilicon wafers through low-cost copper catalyzed chemical etching. Materials Letters, 2018, 221, 85-88.	2.6	13
13	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
14	Effect of electromagnetic strengthening on microstructure of precipitates in metallurgical grade silicon. Journal of Alloys and Compounds, 2020, 816, 152507.	5.5	10
15	Effect of AC as a reductant through the coupling treatment of microwave-assisted and alkali carbonate on silicon production. Journal of Alloys and Compounds, 2020, 817, 152737.	5.5	6
16	Application of molecular interaction volume model for predicting the Ca activity coefficients in Si Ca binary and Si Ca Pb ternary alloys. Vacuum, 2016, 128, 106-111.	3.5	5
17	An approach to prepare high-purity TiSi₂ for clean utilization of Ti-bearing blast furnace slag. Green Chemistry, 2022, 24, 3344-3357.	9.0	5
18	Evolution Mechanism of Solidâ€“Liquid Interface of Large-Sized Bulk Polysilicon via Siâ€“Sn Solution Growth. Crystal Growth and Design, 2022, 22, 2066-2070.	3.0	2

#	Article	IF	Citations
19	Recent progress in upgrading metallurgical-grade silicon to solar-grade silicon via pyrometallurgical routes. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 767-782.	4.9	2
20	3D-structure-attention graph neural network for crystals and materials. Molecular Physics, 0, , .	1.7	1