

# Wen-zhou Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

365  
citations

840776

11  
h-index

839539

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of electromagnetic stirring on the enrichment of primary silicon from Al-Si melt. Journal of Crystal Growth, 2014, 405, 23-28.	1.5	32
2	Segregation and removal of transition metal impurities during the directional solidification refining of silicon with Al-Si solvent. Journal of Alloys and Compounds, 2019, 805, 198-204.	5.5	32
3	A clean process for alumina extraction and ferrosilicon alloy preparation from coal fly ash via vacuum thermal reduction. Journal of Cleaner Production, 2019, 240, 118262.	9.3	31
4	Si purification by enrichment of primary Si in Al-Si melt. Transactions of Nonferrous Metals Society of China, 2013, 23, 3476-3481.	4.2	27
5	Multistep Reduction Kinetics of Fine Iron Ore with Carbon Monoxide in a Micro Fluidized Bed Reaction Analyzer. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 841-852.	2.1	25
6	Segregation and Morphological Evolution of Si Phase during Electromagnetic Directional Solidification of Hypereutectic Al-Si Alloys. Materials, 2019, 12, 10.	2.9	25
7	A novel process to extract alumina and prepare Fe-Si alloys from coal fly ash. Fuel Processing Technology, 2019, 185, 151-157.	7.2	23
8	Boron removal from silicon by hydrogen assistant during the electromagnetic directional solidification of Al Si alloys. International Journal of Hydrogen Energy, 2019, 44, 13502-13508.	7.1	16
9	Si Purification by Removal of Entrapped Al during Electromagnetic Solidification Refining of Si-Al Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2804-2811.	2.1	15
10	Transformation of organic sulfur and its functional groups in nantong and laigang coal under microwave irradiation. Journal of Computational Chemistry, 2019, 40, 2749-2760.	3.3	15
11	Electric Conductivity of TiO <sub>2</sub> -Ti <sub>2</sub> O <sub>3</sub> -FeO-CaO-SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> for High-Titania Slag Smelting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2982-2992.	2.1	14
12	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
13	Effects of melt viscosity on enrichment and separation of primary silicon from Al-Si melt. Transactions of Nonferrous Metals Society of China, 2017, 27, 467-474.	4.2	11
14	A Novel Method of Smelting a Mixture of Two Types of Laterite Ore to Prepare Ferronickel. Jom, 2019, 71, 4191-4197.	1.9	11
15	The Effect of Titanium Carbonitride on the Viscosity of High-Titanium-Type Blast Furnace Slag. Metals, 2019, 9, 395.	2.3	10
16	In-situ formation of a gradient Mg <sub>2</sub> Si/Mg composite with good biocompatibility. Surface and Coatings Technology, 2019, 361, 255-262.	4.8	10
17	Slag-foaming phenomenon originating from reaction of titanium-bearing blast furnace slag: effects of TiO <sub>2</sub> content and basicity. Canadian Metallurgical Quarterly, 2020, 59, 151-158.	1.2	10
18	Smelting Vanadium-Titanium Magnetite by COREX Process: Effect of V-Ti Bearing Pellet Ratio on the Softening and Melting Behavior of Mixed Burden. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 4096-4108.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Corrosion Behavior and Osteogenic Activity of a Biodegradable Orthopedic Implant Mg-Si Alloy with a Gradient Structure. <i>Metals</i> , 2021, 11, 781.	2.3	7
20	Preparation of active coke combining coal with biomass and its denitrification performance. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1203-1211.	2.8	6
21	The alumina enrichment and Fe-Si alloy recovery from coal fly ash with the assistance of Na <sub>2</sub> CO <sub>3</sub> . <i>Fuel</i> , 2022, 310, 122434.	6.4	6
22	A new strategy for de-oxidation of diamond-wire sawing silicon waste via the synergistic effect of magnesium thermal reduction and hydrochloric acid leaching. <i>Journal of Environmental Management</i> , 2022, 317, 115424.	7.8	6
23	First principle study of electronic structural and physical properties of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> ternary slag system by using Ab Initio molecular and lattice dynamics. <i>Journal of Non-Crystalline Solids</i> , 2020, 550, 120384.	3.1	5
24	Purification of Metallurgical Grade Silicon Via the Mg-Si Alloy Refining and Acid Leaching Process. <i>Silicon</i> , 2021, 13, 341-350.	3.3	3
25	Interaction mechanism between hydrogen and boron during the Al-Si solvent refining with hydrogen assistance. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1339-1349.	5.8	3
26	The Research Status and Progress on the Utilization of Coal Fly Ash: A Review. <i>Minerals, Metals and Materials Series</i> , 2022, , 783-792.	0.4	2