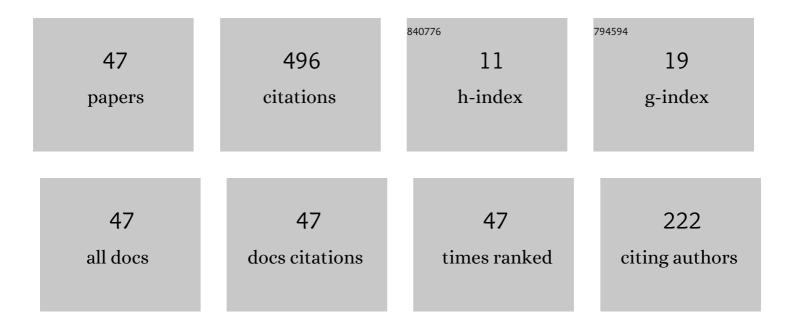
## Zhengjie Chen

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A review of hydrometallurgy techniques for the removal of impurities from metallurgical-grade silicon. Hydrometallurgy, 2021, 201, 105553.   | 4.3 | 69        |
| 2  | Influence of carbon material on the production process of different electric arc furnaces. Journal of Cleaner Production, 2018, 174, 17-25.  | 9.3 | 37        |
| 3  | Artificial neural network modeling for evaluating the power consumption of silicon production in submerged arc furnaces. Applied Thermal Engineering, 2017, 112, 226-236.            | 6.0 | 36        |
| 4  | Influence of carbothermic reduction on submerged arc furnace energy efficiency during silicon production. Energy, 2016, 116, 687-693.  | 8.8 | 35        |
| 5  | Effect of raw materials on the production process of the silicon furnace. Journal of Cleaner<br>Production, 2017, 158, 359-366.  | 9.3 | 34        |
| 6  | The effect of the carbonaceous materials properties on the energy consumption of silicon production in the submerged arc furnace. Journal of Cleaner Production, 2018, 191, 240-247. | 9.3 | 27        |
| 7  | Fabrication of ultra-low antireflection SiNWs arrays from mc-Si using one step MACE. Journal of<br>Materials Science: Materials in Electronics, 2017, 28, 8510-8518.                 | 2.2 | 17        |
| 8  | Detailed vacuum-assisted desulfurization of high-sulfur petroleum coke. Separation and Purification Technology, 2017, 175, 115-121.  | 7.9 | 16        |
| 9  | Effects of potassium feldspar on slagging and fluxing in phosphorus produced via electric furnace.<br>Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 475-480.   | 1.6 | 15        |
| 10 | Thermodynamic Estimation of Silicon Tetrachloride to Trichlorosilane by a Low Temperature<br>Hydrogenation Technique. Silicon, 2017, 9, 69-75.                                       | 3.3 | 14        |
| 11 | A Study of the Performance of Submerged Arc Furnace Smelting of Industrial Silicon. Silicon, 2018, 10, 1121-1127.  | 3.3 | 14        |
| 12 | Boron Removal from Industrial Silicon by Combined Slagging and Acid Leaching Treatment<br>Technology. Jom, 2020, 72, 2670-2675.  | 1.9 | 13        |
| 13 | Novel and efficient purification of silicon through ultrasonic-Cu catalyzed chemical leaching.<br>Ultrasonics Sonochemistry, 2019, 56, 474-480.                                      | 8.2 | 12        |
| 14 | The Effect of Silica and Reducing Agent on the Contents of Impurities in Silicon Produced. Silicon, 2022, 14, 2779-2792.   | 3.3 | 11        |
| 15 | The effect of Ni on Fe and Al impurities by MIVM model for the silicon production. Energy, 2022, 254, 124459.  | 8.8 | 9         |
| 16 | An Innovative Metal Ions Sensitive "Test Paper―Based on Virgin Nanoporous Silicon Wafer: Highly<br>Selective to Copper(II). Scientific Reports, 2016, 6, 36654.                      | 3.3 | 8         |
| 17 | Simple and High-Effective Purification of Metallurgical-Grade Silicon Through Cu-Catalyzed Chemical<br>Leaching. Jom, 2018, 70, 2041-2047.   | 1.9 | 8         |
| 18 | Effects of grinding media on the material properties and strengthening mechanism of silicon production. Journal of Cleaner Production, 2021, 278, 123438.                            | 9.3 | 8         |

ZHENGJIE CHEN

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|----|--|-----|-----------|
| 19 | Effect of the reactive blend conditions on the thermal properties of waste biomass and soft coal as a reducing agent for silicon production. Renewable Energy, 2022, 187, 302-319.                     | 8.9 | 8         |
| 20 | NiSO4 as Additive Effect on the Carbothermal Reduction Process of Phosphate Rock and SiO2. Silicon, 2019, 11, 2829-2836.   | 3.3 | 7         |
| 21 | Research on surface nano-texturation and wet-chemical passivation of multi-crystalline silicon wafer. Journal of Materials Science: Materials in Electronics, 2017, 28, 18825-18834.                   | 2.2 | 6         |
| 22 | Effect of K2CO3 as an Additive Agent on the Carbothermic Reduction Process of Silicon Production. Silicon, 2020, 12, 1575-1584.  | 3.3 | 6         |
| 23 | 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         |
| 24 | Concentration-Controlled and Phytic Acid-Assisted Synthesis of Self-Assembled LiFePO <sub>4</sub><br>as Cathode Materials for Lithium-Ion Battery. Nano, 2020, 15, 2050003.                            | 1.0 | 6         |
| 25 | Application of a Waste Carbon Material as the Carbonaceous Reductant During Silicon Production.<br>Silicon, 2018, 10, 2409-2417.   | 3.3 | 5         |
| 26 | Clean and effective utilization of moldy peel as a biomass waste resource in the gasification process of petroleum coke. Sustainable Energy and Fuels, 2020, 4, 6096-6104.                             | 4.9 | 5         |
| 27 | Influence of the Grinding Media Applying in the Soft Coal and Waste Biomass on the Carbothermic Reduction Process of Silica. Silicon, 2021, 13, 3963-3970.   | 3.3 | 5         |
| 28 | Predicting the Electricity Consumption and the Exergetic Efficiency of a Submerged Arc Furnace with<br>Raw Materials using an Artificial Neural Network. Silicon, 2018, 10, 603-608.                   | 3.3 | 4         |
| 29 | The Effect of K-feldspar and Silica as Fluxing Agent on the Production Process of Phosphorus Furnace. Silicon, 2019, 11, 233-239.  | 3.3 | 4         |
| 30 | Silica, Alkali Carbonate and Alkali Rich Metal Ore as Additive Effect on the Carbothermic Reduction<br>Process of Phosphorus Ore. Silicon, 2020, 12, 613-620.  | 3.3 | 4         |
| 31 | The Additive Effect of K2CO3-NiSO4 on the Carbothermal Reduction Process of Phosphate Rock and SiO2. Silicon, 2020, 12, 1985-1994.   | 3.3 | 4         |
| 32 | Overview of Current Phosphoric Acid Production Processes and a New Idea of Kiln Method.<br>Mini-Reviews in Organic Chemistry, 2021, 18, 328-338.   | 1.3 | 4         |
| 33 | Effect of Silica and Carbon-Reducing Agents on Ni and Ti Impurities during Silicon Production. Silicon, 2022, 14, 4925-4934.   | 3.3 | 4         |
| 34 | Effect of grinding media on the synergistic characteristics of coal and biomass for the carbothermal reduction of silica. Phosphorus, Sulfur and Silicon and the Related Elements, 2021, 196, 594-603. | 1.6 | 4         |
| 35 | Vacuum-assisted and alkali roasting for desulfurization of petroleum coke. Journal of Cleaner<br>Production, 2022, 332, 130052.  | 9.3 | 4         |
| 36 | Experimental study of various fluxing agents in a phosphorus furnace. Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 1048-1053.   | 1.6 | 3         |

ZHENGJIE CHEN

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|----|--|-----|-----------|
| 37 | Study of the Silica or K-feldspar as fluxing agent for the yellow phosphorus production. Phosphorus,<br>Sulfur and Silicon and the Related Elements, 2018, 193, 520-527.               | 1.6 | 3         |
| 38 | Studies on extraction of phosphorus from phosphate ore by electric furnace with different fluxing agents. Phosphorus, Sulfur and Silicon and the Related Elements, 2018, 193, 141-148. | 1.6 | 3         |
| 39 | Effect of off-centered silicon ladle on the removal strength of aluminum and calcium impurities.<br>Separation and Purification Technology, 2018, 201, 301-308.                        | 7.9 | 3         |
| 40 | Study on kinetics of the pyrolysis process of aluminum sulfate. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 285-292.   | 1.6 | 3         |
| 41 | Evaluating of the exergy efficiency of the silicon production process using artificial neural networks. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 756-766.   | 1.6 | 3         |
| 42 | Thermodynamics and kinetics of the carbothermal reduction of aluminum sulfate. Phosphorus,<br>Sulfur and Silicon and the Related Elements, 2021, 196, 71-78.                           | 1.6 | 3         |
| 43 | Synergistic Effect of Distillers' Grains and Petroleum Coke as Reducing Agent on the Carbothermic<br>Reduction of Silica. Silicon, 2022, 14, 7809-7818.                                | 3.3 | 2         |
| 44 | Structural Transformation of High-sulfur Petroleum Cokes with Additives after Heat Treatment.<br>Journal of Chemical Engineering of Japan, 2018, 51, 848-854.                          | 0.6 | 1         |
| 45 | Effect of Carbonaceous Reducers on Carbon Emission during Silicon Production in SAF of 8.5 MVA and 12.5 MVA. Silicon, 2022, 14, 7123-7133.   | 3.3 | 1         |
| 46 | Effect of carbon material composition on the energy consumption in 22.5 MVA silicon furnace.<br>Phosphorus, Sulfur and Silicon and the Related Elements, 2022, 197, 1036-1044.         | 1.6 | 1         |
| 47 | Study on Si-P-Fe and Si-P-Al ternary System Interactions Applied by MIVM Model for the Process of Specific Actual Production. Silicon, 0, , 1.   | 3.3 | 1         |