

# Qingcai Liu

## List of Publications by Year in descending order

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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Promotional effects of nitrogen doping on catalytic performance over manganese-containing semi-coke catalysts for the NH <sub>3</sub> -SCR at low temperatures. <i>Journal of Hazardous Materials</i> , 2020, 387, 121704.   | 12.4 | 65        |
| 2  | Effect of Al <sub>2</sub> O <sub>3</sub> , MgO, and CaO/SiO <sub>2</sub> on Viscosity of High Alumina Blast Furnace Slag. <i>Steel Research International</i> , 2016, 87, 241-249.   | 1.8  | 55        |
| 3  | Experiment and expectation: Co-combustion behavior of anthracite and biomass char. <i>Bioresource Technology</i> , 2019, 280, 412-420.   | 9.6  | 43        |
| 4  | Low-temperature NH <sub>3</sub> -SCR activity of M (M = Zr, Ni and Co) doped MnO supported biochar catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106504.  | 6.7  | 42        |
| 5  | PCDD/F levels and phase distributions in a full-scale municipal solid waste incinerator with co-incinerating sewage sludge. <i>Waste Management</i> , 2020, 106, 110-119.  | 7.4  | 41        |
| 6  | Insight into N <sub>2</sub> O Formation Over Different Crystal Phases of MnO <sub>2</sub> During Low-Temperature NH <sub>3</sub> -SCR of NO. <i>Catalysis Letters</i> , 2021, 151, 2964-2971.  | 2.6  | 38        |
| 7  | Influence of phosphorus on the NH <sub>3</sub> -SCR performance of CeO <sub>2</sub> -TiO <sub>2</sub> catalyst for NO removal from co-incineration flue gas of domestic waste and municipal sludge. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 463-473.                | 9.4  | 38        |
| 8  | Precipitation behavior of perovskite and anosovite crystals from high Ti-bearing blast furnace slag with small amount of B <sub>2</sub> O <sub>3</sub> . <i>CrystEngComm</i> , 2016, 18, 1393-1402.  | 2.6  | 33        |
| 9  | Effect of Interphase Forces on Gas-Liquid Multiphase Flow in RH Degasser. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2620-2630.  | 2.1  | 28        |
| 10 | Effect of pyrolysis temperature on pine sawdust chars and their gasification reactivity mechanism with CO <sub>2</sub> . <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2256.  | 1.5  | 24        |
| 11 | Effect of Nozzle Blockage on Circulation Flow Rate in Up-Snorkel during the RH Degasser Process. <i>Steel Research International</i> , 2016, 87, 136-145.  | 1.8  | 23        |
| 12 | Low-Cost CuX Catalyst from Blast Furnace Slag Waste for Low-Temperature NH <sub>3</sub> -SCR: Nature of Cu Active Sites and Influence of SO <sub>2</sub> /H <sub>2</sub> O. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7739-7751.                                      | 6.7  | 23        |
| 13 | Investigation on Properties of Fluorine-Free Mold Fluxes Based on Ca-Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> System. <i>Steel Research International</i> , 2017, 88, 1600485.  | 1.8  | 21        |
| 14 | Nanoceria synthesis in the KCl-LiCl salt system: Crystal formation and properties. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1863-1875.  | 3.8  | 19        |
| 15 | New insights into the deactivation mechanism of V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalyst during selective catalytic reduction of NO with NH <sub>3</sub> : synergies between arsenic and potassium species. <i>RSC Advances</i> , 2019, 9, 37724-37732. | 3.6  | 19        |
| 16 | CO <sub>2</sub> Mineral Sequestration and Faujasite Zeolite Synthesis by Using Blast Furnace Slag: Process Optimization and CO <sub>2</sub> Net-Emission Reduction Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13963-13971.                                  | 6.7  | 19        |
| 17 | The Crystallization Behaviors of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -CaO-MgO-TiO <sub>2</sub> Glass-Ceramic Systems. <i>Crystals</i> , 2020, 10, 794.  | 2.2  | 18        |
| 18 | Properties of stable nonstoichiometric nanoceria produced by thermal plasma. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.  | 1.9  | 15        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Comparative Studies of Effects of Vapor- and Liquid-Phase As <sub>2</sub> O <sub>3</sub> on Catalytic Behaviors of V <sub>2</sub> O <sub>5</sub> •WO <sub>3</sub> /TiO <sub>2</sub> Catalysts for NH <sub>3</sub> -SCR. ACS Omega, 2020, 5, 24195-24203.             | 3.5 | 15        |
| 20 | Effect of Composition on Desulfurization Capacity in the CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -MgO-CaF <sub>2</sub> -BaO System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 229-232. | 2.1 | 12        |
| 21 | Role of nitrogen functional groups and manganese oxides on the reduction of NO over modified semi-coke catalyst at low temperature. Research on Chemical Intermediates, 2019, 45, 563-579.   | 2.7 | 11        |
| 22 | Effect of B <sub>2</sub> O <sub>3</sub> on Slag-Metal Reaction between CaO-Al <sub>2</sub> O <sub>3</sub> -Based Mold Flux and High Aluminum Steel. High Temperature Materials and Processes, 2018, 37, 981-985.   | 1.4 | 9         |
| 23 | Photocatalytic degradation of methyl orange by Ca doped $\hat{I}^2$ -In <sub>2</sub> S <sub>3</sub> with varying Ca concentration. Research on Chemical Intermediates, 2022, 48, 1813-1829.  | 2.7 | 9         |
| 24 | Separating Sulfur from Fuel Gas Desulfurization Gypsum with an Oxalic Acid Solution. ACS Omega, 2020, 5, 16932-16939.  | 3.5 | 5         |
| 25 | Effects of the cooling rate on the crystallization behaviors of the CaO-Al <sub>2</sub> O <sub>3</sub> •B <sub>2</sub> O <sub>3</sub> •CaF <sub>2</sub> -based mold flux.2.6 CrystEngComm, 2020, 22, 2158-2165.  |     | 5         |
| 26 | Investigation of sintered iron ore fines as an oxygen carrier in chemical looping combustion. Journal of Thermal Analysis and Calorimetry, 2016, 125, 459-469.   | 3.6 | 4         |
| 27 | Comparative study on the physicochemical properties and de-NO <sub>x</sub> performance of waste bamboo-derived low-temperature NH <sub>3</sub> -SCR catalysts. Research on Chemical Intermediates, 2021, 47, 5303-5320.  | 2.7 | 4         |
| 28 | Modeling study of the heat of absorption and solid precipitation for CO <sub>2</sub> capture by chilled ammonia. RSC Advances, 2019, 9, 20075-20086.   | 3.6 | 3         |
| 29 | Influences of Ash-Existing Environments and Coal Structures on CO <sub>2</sub> Gasification Characteristics of Tri-High Coal. Processes, 2020, 8, 1367.  | 2.8 | 3         |
| 30 | Crystallization behaviors and properties of Ti-bearing blast furnace slag-based glass ceramics with varying CaO/SiO <sub>2</sub> mass ratio. Journal of the Australian Ceramic Society, 2022, 58, 597-605.   | 1.9 | 3         |
| 31 | Modification of Cordierite Honeycomb Ceramics Matrix for DeNO <sub>x</sub> Catalyst. Materials Research Society Symposia Proceedings, 2012, 1449, 141.   | 0.1 | 2         |
| 32 | Numerical simulation on gas-solid flow characteristics and NO <sub>x</sub> formation of a full-scale dual circulating fluidized bed boiler. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-16.                                      | 2.3 | 2         |
| 33 | <i>In situ</i> observations of isothermal cuspidine crystallization in molten mould fluxes with varying basicity. Ironmaking and Steelmaking, 2021, 48, 149-154.   | 2.1 | 2         |
| 34 | Fracture Failure Performance of 35VB Steel High-Strength Bolts Used in Subtropical Humid Climate. Journal of Materials in Civil Engineering, 2021, 33, .   | 2.9 | 1         |