

# Fangqin Cheng

## List of Publications by Year in descending order

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43  
papers

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citations

361413

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Employing an ICT-FRET Integration Platform for the Real-Time Tracking of SO <sub>2</sub> Metabolism in Cancer Cells and Tumor Models. <i>Journal of the American Chemical Society</i> , 2020, 142, 6324-6331.	13.7	186
2	Heat Stroke in Cell Tissues Related to Sulfur Dioxide Level Is Precisely Monitored by Light-Controlled Fluorescent Probes. <i>Journal of the American Chemical Society</i> , 2020, 142, 3262-3268.	13.7	164
3	Ionic Liquid Droplet Microreactor for Catalysis Reactions Not at Equilibrium. <i>Journal of the American Chemical Society</i> , 2017, 139, 17387-17396.	13.7	130
4	A New Strategy: Distinguishable Multi-substance Detection, Multiple Pathway Tracing Based on a New Site Constructed by the Reaction Process and Its Tumor Targeting. <i>Journal of the American Chemical Society</i> , 2020, 142, 18706-18714.	13.7	114
5	Improved extraction of alumina from coal gangue by surface mechanically grinding modification. <i>Powder Technology</i> , 2016, 302, 33-41.	4.2	91
6	Novel process of alumina extraction from coal fly ash by pre-desilicating Na <sub>2</sub> CO <sub>3</sub> activation Acid leaching technique. <i>Hydrometallurgy</i> , 2017, 169, 418-425.	4.3	88
7	Novel extraction of valuable metals from circulating fluidized bed-derived high-alumina fly ash by acid-alkali-based alternate method. <i>Journal of Cleaner Production</i> , 2019, 230, 302-313.	9.3	62
8	Liquid marble-derived solid-liquid hybrid superparticles for CO <sub>2</sub> capture. <i>Nature Communications</i> , 2019, 10, 1854.	12.8	52
9	Dissolution kinetics of aluminum and iron from coal mining waste by hydrochloric acid. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 590-596.	3.5	49
10	Interactions of coal gangue and pine sawdust during combustion of their blends studied using differential thermogravimetric analysis. <i>Bioresource Technology</i> , 2016, 214, 396-403.	9.6	48
11	Behaviors and Mechanism of Iron Extraction from Chloride Solutions Using Undiluted Cyphos IL 101. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7534-7542.	3.7	46
12	A simple hydrothermal synthesis of zeolite X from bauxite tailings for highly efficient adsorbing CO <sub>2</sub> at room temperature. <i>Microporous and Mesoporous Materials</i> , 2019, 287, 77-84.	4.4	44
13	AlCl <sub>3</sub> ·6H <sub>2</sub> O recovery from the acid leaching liquor of coal gangue by using concentrated hydrochloric inpouring. <i>Separation and Purification Technology</i> , 2015, 151, 177-183.	7.9	43
14	Low-Temperature Highly Efficient and Selective Removal of H <sub>2</sub> S over Three-Dimensional Zn-Cu-Based Materials in an Anaerobic Environment. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5964-5972.	10.0	42
15	Heavy metal fixing and heat resistance abilities of coal fly ash-waste glass based geopolymers by hydrothermal hot pressing. <i>Advanced Powder Technology</i> , 2018, 29, 1487-1492.	4.1	34
16	Effect of oxygen concentration on oxy-fuel combustion characteristic and interactions of coal gangue and pine sawdust. <i>Waste Management</i> , 2019, 87, 288-294.	7.4	30
17	Distribution Characteristics of Valuable Elements, Al, Li, and Ga, and Rare Earth Elements in Feed Coal, Fly Ash, and Bottom Ash from a 300 MW Circulating Fluidized Bed Boiler. <i>ACS Omega</i> , 2019, 4, 6854-6863.	3.5	28
18	Pseudocapacitive Charge Storage in MXene-V <sub>2</sub> O <sub>5</sub> for Asymmetric Flexible Energy Storage Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54791-54797.	8.0	28

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19	Comprehensive evaluation of inherent mineral composition and carbon structure parameters on CO <sub>2</sub> reactivity of metallurgical coke. <i>Fuel</i> , 2019, 235, 647-657.	6.4	26
20	Extraction of Valuable Metals and Preparation of Mesoporous Materials from Circulating Fluidized Bed-Derived Fly Ash via an Acid-Alkali-Based Alternate Method. <i>ACS Omega</i> , 2020, 5, 31295-31305.	3.5	24
21	Zeolite X Adsorbent with High Stability Synthesized from Bauxite Tailings for Cyclic Adsorption of CO <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2019, 33, 6641-6649.	5.1	21
22	Recirculating coking by-products and waste for cost-effective activated carbon (AC) production and its application for treatment of SO <sub>2</sub> and wastewater in coke-making plant. <i>Journal of Cleaner Production</i> , 2021, 280, 124375.	9.3	19
23	Indispensable role of inherent calcite in coal on activated carbon (AC)'s preparation and applications. <i>Fuel</i> , 2021, 287, 119481.	6.4	18
24	Experimental study on foam glass prepared by hydrothermal hot pressing-calcination technique using waste glass and fly ash. <i>Ceramics International</i> , 2021, 47, 28603-28613.	4.8	17
25	Synthesis and characterization of geopolymer prepared from circulating fluidized bed-derived fly ash. <i>Ceramics International</i> , 2022, 48, 11820-11829.	4.8	16
26	Coke powder improving the performance of desulfurized activated carbon from the cyclic thermal regeneration. <i>Chemical Engineering Journal</i> , 2022, 448, 137459.	12.7	16
27	One-Step Synthesis of Solid-Liquid Composite Microsphere for CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5814-5822.	8.0	14
28	Enhanced SO <sub>2</sub> and Rhodamine B Removal by Blending Coke-Making Waste Benzene Residue (BR) for Pelletized Activated Coke (PAC) Production and Mechanisms. <i>Energy &amp; Fuels</i> , 2019, 33, 5173-5181.	5.1	13
29	In-Suit Industrial Tests of the Highly Efficient Recovery of Waste Heat and Reutilization of the Hot Steel Slag. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3955-3962.	6.7	11
30	Effect of organic matter on the Rietveld quantitative analysis of crystalline minerals in coal gangue. <i>Powder Diffraction</i> , 2016, 31, 185-191.	0.2	10
31	Experimental investigation and cost assessment of the salt production by solar assisted evaporation of saturated brine. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 701-707.	3.5	9
32	Hydrothermal synthesis of zeolitic material from circulating fluidized bed combustion fly ash for the highly efficient removal of lead from aqueous solution. <i>Chinese Journal of Chemical Engineering</i> , 2022, 47, 193-205.	3.5	9
33	Surface-Segregation-Induced Nanopillae on FDS-Blended PDMS Film and Implications in Wettability, Adhesion, and Friction Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7476-7486.	8.0	6
34	Insights into Coproduction of Silica Gel via Desulfurization of Steel Slag and Silica Gel Adsorption Performance. <i>ACS Omega</i> , 2022, 7, 21062-21074.	3.5	5
35	Phase Diagram of AlCl <sub>3</sub> -FeCl <sub>3</sub> -H <sub>2</sub> O (~HCl) Salt Water System at 298.15 K and Its Application in the Crystallization of AlCl <sub>3</sub> ·6H <sub>2</sub> O. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5089-5094.	1.9	4
36	Hydrothermal Hot-pressing Solidification of Coal Fly Ash and Its Ability of Fixing Heavy Metal. <i>Journal of Residuals Science and Technology</i> , 2015, 12, 143-148.	0.6	4

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37	Separating NaCl and AlCl <sub>3</sub> ·6H <sub>2</sub> O Crystals from Acidic Solution Assisted by the Non-Equilibrium Phase Diagram of AlCl <sub>3</sub> -NaCl-H <sub>2</sub> O(-HCl) Salt-Water System at 353.15 K. Crystals, 2017, 7, 244.	2.2	3
38	Dynamic Desulfurization Process over Porous Zn-Cu-Based Materials in a Packed Column: Adsorption Kinetics and Breakthrough Modeling. Energy & Fuels, 2020, 34, 16552-16559.	5.1	3
39	Fabrication of Mechanically Robust and Highly Elastic Epoxy Sponges via Surface Embedding of Nanoparticles for Long-Term Oil/Water Separation. ACS ES&T Engineering, 2022, 2, 924-939.	7.6	3
40	Al <sub>2</sub> O <sub>3</sub> Dispersion-Induced Micropapillae in an Epoxy Composite Coating and Implications in Thermal Conductivity. ACS Omega, 2021, 6, 17870-17879.	3.5	2
41	High-Strength Solidification of Fly Ash/Carbide Slag and Its Fixing Ability for Heavy Metals. Journal of Residuals Science and Technology, 2017, 14, 155-160.	0.6	2
42	Spinel Ferrite Transformation for an Efficient Fe Removal from Circulating Fluidized Bed Fly Ash by Carbothermal Reduction at a Low Temperature. ACS Omega, 2022, 7, 18612-18622.	3.5	2
43	Novel insight into composite packing of copper modified adsorbents for synergistically capturing H <sub>2</sub> S&HCl in low-temperature anaerobic environment. Separation and Purification Technology, 2021, 275, 119222.	7.9	0