Yingchao Hu

List of Publications by Year
in descending order

57 papers	2,699 citations	126907 33 h-index	182427 51 g-index
57 all docs	57 docs citations	57 times ranked	1178 citing authors

#	Article	IF	Citations
1	Lithium-based ceramics in nonsilicates for CO₂capture: current status and new trends. Journal of Materials Chemistry A, 2022, 10, 1706-1725.	10.3	14
2	A review on granulation of CaO-based sorbent for carbon dioxide capture. Chemical Engineering Journal, 2022, 446, 136880.	12.7	10
3	Scalable synthesis of Li4SiO4 sorbent from novel low-cost orthoclase mineral for CO2 capture. Fuel, 2022, 324, 124492.	6.4	8
4	Single step fabrication of spherical CaO pellets via novel agar-assisted moulding technique for high-temperature CO2 capture. Chemical Engineering Journal, 2021, 404, 127137.	12.7	18
5	Novel synthesis of tailored Li4SiO4-based microspheres for ultrafast CO2 adsorption. Fuel Processing Technology, 2021, 213, 106675.	7.2	9
6	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. Science of the Total Environment, 2021, 756, 143679.	8.0	108
7	High-temperature CO2 adsorption by one-step fabricated Nd-doped Li4SiO4 pellets. Chemical Engineering Journal, 2021, 410, 128346.	12.7	21
8	Thermochemical Energy Storage of Concentrated Solar Power by Novel Y₂O₃-Doped CaO Pellets. Energy & Fuels, 2021, 35, 12610-12618.	5.1	16
9	Li4SiO4 pellets templated by rice husk for cyclic CO2 capture: Insight into the modification mechanism. Ceramics International, 2021, 47, 32060-32067.	4.8	7
10	Structurally improved Li4SiO4 sorbents derived from lithium salicylate precursor for enhanced CO2 capture. Fuel Processing Technology, 2021, 224, 107027.	7.2	14
11	Eutectic doped Li₄SiO₄ adsorbents using the optimal dopants for highly efficient CO₂ removal. Journal of Materials Chemistry A, 2021, 9, 14309-14318.	10.3	22
12	Preparation of spherical Li4SiO4 pellets by novel agar method for high-temperature CO2 capture. Chemical Engineering Journal, 2020, 380, 122538.	12.7	47
13	High-temperature CO2 capture by Li4SiO4 adsorbents: Effects of pyroligneous acid (PA) modification and existence of CO2 at desorption stage. Fuel Processing Technology, 2020, 197, 106186.	7.2	26
14	Role of SO2 and H2O in the mercury adsorption on ceria surface: A DFT study. Fuel, 2020, 260, 116289.	6.4	45
15	In Situ Decoration of Selenide on Copper Foam for the Efficient Immobilization of Gaseous Elemental Mercury. Environmental Science & Technology, 2020, 54, 2022-2030.	10.0	96
16	Incorporation of CaO into inert supports for enhanced CO2 capture: A review. Chemical Engineering Journal, 2020, 396, 125253.	12.7	92
17	Density Functional Theory Studies of the Adsorption and Interactions between Selenium Species and Mercury on Activated Carbon. Energy & Fuels, 2020, 34, 9779-9786.	5.1	16
18	Development of selenized magnetite (Fe3O4âˆ’xSey) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. Chemical Engineering Journal, 2020, 394, 125022.	12.7	47

#	Article	IF	Citations
19	Efficient reduction of CO 2 to CO by Ag 3 PO 4 /TiO 2 photocatalyst under ultraviolet and visible light irradiation. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2499.	1.5	4
20	Mechanochemically activated Li4SiO4-based adsorbent with enhanced CO2 capture performance and its modification mechanisms. Fuel, 2020, 273, 117749.	6.4	13
21	Progress in MgO sorbents for cyclic CO₂capture: a comprehensive review. Journal of Materials Chemistry A, 2019, 7, 20103-20120.	10.3	132
22	Novel low cost Li4SiO4-based sorbent with naturally occurring wollastonite as Si-source for cyclic CO2 capture. Chemical Engineering Journal, 2019, 374, 328-337.	12.7	34
23	One-step synthesis of spherical CaO pellets via novel graphite-casting method for cyclic CO2 capture. Chemical Engineering Journal, 2019, 374, 619-625.	12.7	65
24	A semi-industrial preparation procedure of CaO-based pellets with high CO2 uptake performance. Fuel Processing Technology, 2019, 193, 149-158.	7.2	21
25	Porous spherical calcium aluminate-supported CaO-based pellets manufactured via biomass-templated extrusionâ€“spheronization technique for cyclic CO2 capture. Environmental Science and Pollution Research, 2019, 26, 21972-21982.	5.3	13
26	Reactivation of CaO-based sorbents via multi-acidification under N2 or oxy-fuel (with and without) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.4	6
27	CO2 capture by Li4SiO4 sorbents and their applications: Current developments and new trends. Chemical Engineering Journal, 2019, 359, 604-625.	12.7	142
28	Density Functional Theory Study of Mercury Adsorption on CuS Surface: Effect of Typical Flue Gas Components. Energy & Fuels, 2019, 33, 1540-1546.	5.1	51
29	Porous extruded-spheronized Li4SiO4 pellets for cyclic CO2 capture. Fuel, 2019, 236, 1043-1049.	6.4	54
30	An efficient sorbent based on CuCl2 loaded CeO2-ZrO2 for elemental mercury removal from chlorine-free flue gas. Fuel, 2018, 216, 356-363.	6.4	72
31	Investigation on synergistic oxidation behavior of NO and Hg0 during the newly designed fast SCR process. Fuel, 2018, 225, 134-139.	6.4	46
32	Preparation of Li₄SiO₄ Sorbents for Carbon Dioxide Capture via a Spray-Drying Technique. Energy & Fuels, 2018, 32, 4521-4527.	5.1	33
33	Enhancement of CO₂ Absorption in Li₄SiO₄ by Acidification and Eutectic Doping. Energy & Fuels, 2018, 32, 12758-12765.	5.1	9
34	Acidification Optimization and Granulation of a Steelâ€Slagâ€Derived Sorbent for CO₂ Capture. Chemical Engineering and Technology, 2018, 41, 2077-2086.	1.5	12
35	NaBr-Enhanced CaO-Based Sorbents with a Macropore-Stabilized Microstructure for CO₂ Capture. Energy & Fuels, 2018, 32, 8571-8578.	5.1	22
36	One-step synthesis of porous Li4SiO4-based adsorbent pellets via graphite moulding method for cyclic CO2 capture. Chemical Engineering Journal, 2018, 353, 92-99.	12.7	120

#	ARTICLE	IF	CITATIONS
37	Synthesis of highly efficient, structurally improved Li4SiO4 sorbents for high-temperature CO2 capture. Ceramics International, 2018, 44, 16668-16677.	4.8	52
38	A novel Ti-based sorbent for reducing ultrafine particulate matter formation during coal combustion. Fuel, 2017, 193, 72-80.	6.4	42
39	One-step synthesis of highly efficient CaO-based CO2 sorbent pellets via gel-casting technique. Fuel Processing Technology, 2017, 160, 70-77.	7.2	50
40	Stabilized CO2 capture performance of extrudedâ€“spheronized CaO-based pellets by microalgae templating. Proceedings of the Combustion Institute, 2017, 36, 3977-3984.	3.9	47
41	Routine Investigation of CO₂ Sorption Enhancement for Extrudedâ€“Spheronized CaO-Based Pellets. Energy & Fuels, 2017, 31, 9660-9667.	5.1	22
42	Pelletization of MgO-based sorbents for intermediate temperature CO 2 capture. Fuel, 2017, 187, 328-337.	6.4	50
43	Preparation of Novel Li₄SiO₄ Sorbents with Superior Performance at Low CO₂ Concentration. ChemSusChem, 2016, 9, 1607-1613.	6.8	55
44	CO₂ Sorption Enhancement of Extruded-Spheronized CaO-Based Pellets by Sacrificial Biomass Templating Technique. Energy & Fuels, 2016, 30, 9605-9612.	5.1	43
45	Incorporation of CaO in inert solid matrix by spray drying sol mixture of precursors. RSC Advances, 2016, 6, 57658-57666.	3.6	13
46	Manganese doped CeO 2 -ZrO 2 catalyst for elemental mercury oxidation at low temperature. Fuel Processing Technology, 2016, 152, 285-293.	7.2	62
47	Mechanical Modification of Naturally Occurring Limestone for High-Temperature CO₂ Capture. Energy & Fuels, 2016, 30, 6597-6605.	5.1	38
48	High Temperature CO₂ Capture on Novel Yb₂O₃-Supported CaO-Based Sorbents. Energy & Fuels, 2016, 30, 6606-6613.	5.1	33
49	Alkaliâ€Doped Lithium Orthosilicate Sorbents for Carbon Dioxide Capture. ChemSusChem, 2016, 9, 2480-2487.	6.8	71
50	A novel low temperature catalyst regenerated from deactivated SCR catalyst for Hg0 oxidation. Chemical Engineering Journal, 2016, 304, 121-128.	12.7	45
51	Investigation of novel naturally occurring manganocalcite for CO2 capture under oxy-fuel calcination. Chemical Engineering Journal, 2016, 296, 412-419.	12.7	34
52	Screening of inert solid supports for CaO-based sorbents for high temperature CO2 capture. Fuel, 2016, 181, 199-206.	6.4	127
53	Structurally improved CaO-based sorbent by organic acids for high temperature CO2 capture. Fuel, 2016, 167, 17-24.	6.4	114
54	Enhanced performance of extrudedâ€“spheronized carbide slag pellets for high temperature CO 2 capture. Chemical Engineering Journal, 2016, 285, 293-303.	12.7	169

#	Article	IF	Citations
55	Incorporation of CaO into novel Nd2O3 inert solid support for high temperature CO2 capture. Chemical Engineering Journal, 2015, 273, 333-343.	12.7	92
56	Structurally Improved, Core-in-Shell, CaO-Based Sorbent Pellets for CO₂ Capture. Energy & Fuels, 2015, 29, 6636-6644.	5.1	65
57	Optimizing Synergy between Phosphogypsum Disposal and Cement Plant CO₂Capture by the Calcium Looping Process. Energy & Fuels, 0, , .	5.1	10