

Yingchao Hu

List of Publications by Year in descending order

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57
papers

2,699
citations

126907

33
h-index

182427

51
g-index

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all docs

57
docs citations

57
times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced performance of extruded-spheronized carbide slag pellets for high temperature CO ₂ capture. <i>Chemical Engineering Journal</i> , 2016, 285, 293-303.	12.7	169
2	CO ₂ capture by Li ₄ SiO ₄ sorbents and their applications: Current developments and new trends. <i>Chemical Engineering Journal</i> , 2019, 359, 604-625.	12.7	142
3	Progress in MgO sorbents for cyclic CO ₂ capture: a comprehensive review. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20103-20120.	10.3	132
4	Screening of inert solid supports for CaO-based sorbents for high temperature CO ₂ capture. <i>Fuel</i> , 2016, 181, 199-206.	6.4	127
5	One-step synthesis of porous Li ₄ SiO ₄ -based adsorbent pellets via graphite moulding method for cyclic CO ₂ capture. <i>Chemical Engineering Journal</i> , 2018, 353, 92-99.	12.7	120
6	Structurally improved CaO-based sorbent by organic acids for high temperature CO ₂ capture. <i>Fuel</i> , 2016, 167, 17-24.	6.4	114
7	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <i>Science of the Total Environment</i> , 2021, 756, 143679.	8.0	108
8	In Situ Decoration of Selenide on Copper Foam for the Efficient Immobilization of Gaseous Elemental Mercury. <i>Environmental Science & Technology</i> , 2020, 54, 2022-2030.	10.0	96
9	Incorporation of CaO into novel Nd ₂ O ₃ inert solid support for high temperature CO ₂ capture. <i>Chemical Engineering Journal</i> , 2015, 273, 333-343.	12.7	92
10	Incorporation of CaO into inert supports for enhanced CO ₂ capture: A review. <i>Chemical Engineering Journal</i> , 2020, 396, 125253.	12.7	92
11	An efficient sorbent based on CuCl ₂ loaded CeO ₂ -ZrO ₂ for elemental mercury removal from chlorine-free flue gas. <i>Fuel</i> , 2018, 216, 356-363.	6.4	72
12	Alkali-Doped Lithium Orthosilicate Sorbents for Carbon Dioxide Capture. <i>ChemSusChem</i> , 2016, 9, 2480-2487.	6.8	71
13	Structurally Improved, Core-in-Shell, CaO-Based Sorbent Pellets for CO ₂ Capture. <i>Energy & Fuels</i> , 2015, 29, 6636-6644.	5.1	65
14	One-step synthesis of spherical CaO pellets via novel graphite-casting method for cyclic CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 374, 619-625.	12.7	65
15	Manganese doped CeO ₂ -ZrO ₂ catalyst for elemental mercury oxidation at low temperature. <i>Fuel Processing Technology</i> , 2016, 152, 285-293.	7.2	62
16	Preparation of Novel Li ₄ SiO ₄ Sorbents with Superior Performance at Low CO ₂ Concentration. <i>ChemSusChem</i> , 2016, 9, 1607-1613.	6.8	55
17	Porous extruded-spheronized Li ₄ SiO ₄ pellets for cyclic CO ₂ capture. <i>Fuel</i> , 2019, 236, 1043-1049.	6.4	54
18	Synthesis of highly efficient, structurally improved Li ₄ SiO ₄ sorbents for high-temperature CO ₂ capture. <i>Ceramics International</i> , 2018, 44, 16668-16677.	4.8	52

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19	Density Functional Theory Study of Mercury Adsorption on CuS Surface: Effect of Typical Flue Gas Components. <i>Energy & Fuels</i> , 2019, 33, 1540-1546.	5.1	51
20	One-step synthesis of highly efficient CaO-based CO ₂ sorbent pellets via gel-casting technique. <i>Fuel Processing Technology</i> , 2017, 160, 70-77.	7.2	50
21	Pelletization of MgO-based sorbents for intermediate temperature CO ₂ capture. <i>Fuel</i> , 2017, 187, 328-337.	6.4	50
22	Stabilized CO ₂ capture performance of extruded-spheronized CaO-based pellets by microalgae templating. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3977-3984.	3.9	47
23	Preparation of spherical Li ₄ SiO ₄ pellets by novel agar method for high-temperature CO ₂ capture. <i>Chemical Engineering Journal</i> , 2020, 380, 122538.	12.7	47
24	Development of selenized magnetite (Fe ₃ O ₄ ·xSe _y) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020, 394, 125022.	12.7	47
25	Investigation on synergistic oxidation behavior of NO and HgO during the newly designed fast SCR process. <i>Fuel</i> , 2018, 225, 134-139.	6.4	46
26	A novel low temperature catalyst regenerated from deactivated SCR catalyst for HgO oxidation. <i>Chemical Engineering Journal</i> , 2016, 304, 121-128.	12.7	45
27	Role of SO ₂ and H ₂ O in the mercury adsorption on ceria surface: A DFT study. <i>Fuel</i> , 2020, 260, 116289.	6.4	45
28	CO ₂ Sorption Enhancement of Extruded-Spheronized CaO-Based Pellets by Sacrificial Biomass Templating Technique. <i>Energy & Fuels</i> , 2016, 30, 9605-9612.	5.1	43
29	A novel Ti-based sorbent for reducing ultrafine particulate matter formation during coal combustion. <i>Fuel</i> , 2017, 193, 72-80.	6.4	42
30	Mechanical Modification of Naturally Occurring Limestone for High-Temperature CO ₂ Capture. <i>Energy & Fuels</i> , 2016, 30, 6597-6605.	5.1	38
31	Investigation of novel naturally occurring manganocalcite for CO ₂ capture under oxy-fuel calcination. <i>Chemical Engineering Journal</i> , 2016, 296, 412-419.	12.7	34
32	Novel low cost Li ₄ SiO ₄ -based sorbent with naturally occurring wollastonite as Si-source for cyclic CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 374, 328-337.	12.7	34
33	High Temperature CO ₂ Capture on Novel Yb ₂ O ₃ -Supported CaO-Based Sorbents. <i>Energy & Fuels</i> , 2016, 30, 6606-6613.	5.1	33
34	Preparation of Li ₄ SiO ₄ Sorbents for Carbon Dioxide Capture via a Spray-Drying Technique. <i>Energy & Fuels</i> , 2018, 32, 4521-4527.	5.1	33
35	High-temperature CO ₂ capture by Li ₄ SiO ₄ adsorbents: Effects of pyroligneous acid (PA) modification and existence of CO ₂ at desorption stage. <i>Fuel Processing Technology</i> , 2020, 197, 106186.	7.2	26
36	Routine Investigation of CO ₂ Sorption Enhancement for Extruded-Spheronized CaO-Based Pellets. <i>Energy & Fuels</i> , 2017, 31, 9660-9667.	5.1	22

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37	NaBr-Enhanced CaO-Based Sorbents with a Macropore-Stabilized Microstructure for CO ₂ Capture. <i>Energy & Fuels</i> , 2018, 32, 8571-8578.	5.1	22
38	Eutectic doped Li ₄ SiO ₄ adsorbents using the optimal dopants for highly efficient CO ₂ removal. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14309-14318.	10.3	22
39	A semi-industrial preparation procedure of CaO-based pellets with high CO ₂ uptake performance. <i>Fuel Processing Technology</i> , 2019, 193, 149-158.	7.2	21
40	High-temperature CO ₂ adsorption by one-step fabricated Nd-doped Li ₄ SiO ₄ pellets. <i>Chemical Engineering Journal</i> , 2021, 410, 128346.	12.7	21
41	Single step fabrication of spherical CaO pellets via novel agar-assisted moulding technique for high-temperature CO ₂ capture. <i>Chemical Engineering Journal</i> , 2021, 404, 127137.	12.7	18
42	Density Functional Theory Studies of the Adsorption and Interactions between Selenium Species and Mercury on Activated Carbon. <i>Energy & Fuels</i> , 2020, 34, 9779-9786.	5.1	16
43	Thermochemical Energy Storage of Concentrated Solar Power by Novel Y ₂ O ₃ -Doped CaO Pellets. <i>Energy & Fuels</i> , 2021, 35, 12610-12618.	5.1	16
44	Structurally improved Li ₄ SiO ₄ sorbents derived from lithium salicylate precursor for enhanced CO ₂ capture. <i>Fuel Processing Technology</i> , 2021, 224, 107027.	7.2	14
45	Lithium-based ceramics in nonsilicates for CO ₂ capture: current status and new trends. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1706-1725.	10.3	14
46	Incorporation of CaO in inert solid matrix by spray drying sol mixture of precursors. <i>RSC Advances</i> , 2016, 6, 57658-57666.	3.6	13
47	Porous spherical calcium aluminate-supported CaO-based pellets manufactured via biomass-templated extrusion-spheronization technique for cyclic CO ₂ capture. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21972-21982.	5.3	13
48	Mechanochemically activated Li ₄ SiO ₄ -based adsorbent with enhanced CO ₂ capture performance and its modification mechanisms. <i>Fuel</i> , 2020, 273, 117749.	6.4	13
49	Acidification Optimization and Granulation of a Steel-Slag-Derived Sorbent for CO ₂ Capture. <i>Chemical Engineering and Technology</i> , 2018, 41, 2077-2086.	1.5	12
50	Optimizing Synergy between Phosphogypsum Disposal and Cement Plant CO ₂ Capture by the Calcium Looping Process. <i>Energy & Fuels</i> , 0, , .	5.1	10
51	A review on granulation of CaO-based sorbent for carbon dioxide capture. <i>Chemical Engineering Journal</i> , 2022, 446, 136880.	12.7	10
52	Enhancement of CO ₂ Absorption in Li ₄ SiO ₄ by Acidification and Eutectic Doping. <i>Energy & Fuels</i> , 2018, 32, 12758-12765.	5.1	9
53	Novel synthesis of tailored Li ₄ SiO ₄ -based microspheres for ultrafast CO ₂ adsorption. <i>Fuel Processing Technology</i> , 2021, 213, 106675.	7.2	9
54	Scalable synthesis of Li ₄ SiO ₄ sorbent from novel low-cost orthoclase mineral for CO ₂ capture. <i>Fuel</i> , 2022, 324, 124492.	6.4	8

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55	Li ₄ SiO ₄ pellets templated by rice husk for cyclic CO ₂ capture: Insight into the modification mechanism. <i>Ceramics International</i> , 2021, 47, 32060-32067.	4.8	7
56	Reactivation of CaO-based sorbents via multi-acidification under N ₂ or oxy-fuel (with and without) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	6.4	6
57	Efficient reduction of CO ₂ to CO by Ag ₃ PO ₄ /TiO ₂ photocatalyst under ultraviolet and visible light irradiation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2499.	1.5	4