Cong Luo

List of Publications by Year
in descending order

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78 papers	2,502 citations	159525 30 h-index	223716 46 g-index
78 all docs	78 docs citations	78 times ranked	1280 citing authors

#	Article	IF	Citations
1	CO2 Adsorption Performance of Na/K-Impregnated MgO. Environmental Science and Engineering, 2022, , 597-606.	0.1	0
2	NO formation mechanism of CH4/NH3 jet flames in hot co-flow under MILD-oxy condition: Effects of co-flow CO2 and H2O. Fuel, 2022, 313, 123030.	3.4	19
3	Structure and surface insight into a temperature-sensitive CaO-based CO2 sorbent. Chemical Engineering Journal, 2022, 435, 134960.	6.6	56
4	Combustion regimes and fuel-NO mechanism of CH4/NH3 jet diffusion flames in hot O2/CO2 co-flow. Fuel Processing Technology, 2022, 229, 107173.	3.7	18
5	Na2CO3 promoted CaO-based heat carrier for thermochemical energy storage in concentrated solar power plants. Chemical Engineering Journal, 2022, 435, 134852.	6.6	28
6	Screening loaded perovskite oxygen carriers for chemical looping steam methane reforming. Journal of Environmental Chemical Engineering, 2022, 10, 107315.	3.3	10
7	Improved quasi-cycle capacity method based on microcalorimetry strategy for the fast screening of amino acid salt absorbents for CO2 capture. Separation and Purification Technology, 2022, 289, 120767.	3.9	15
8	Promotion effects of oxygen vacancies on activity of Na-doped CeO2 catalysts for reverse water gas shift reaction. Applied Surface Science, 2022, 587, 152881.	3.1	15
9	Numerical study on heterogeneous reaction characteristics of a single coal char particle under air- and oxy-fuel combustion: Effects of particle motion. Fuel, 2022, 320, 123919.	3.4	10
10	Optimization of sol-gel combustion synthesis for calcium looping CO2 sorbents, part â...: Effects of sol-gel preparation and combustion conditions. Separation and Purification Technology, 2022, 292, 121081.	3.9	10
11	Optimization of solâ€“gel combustion synthesis of calcium looping CO2 sorbents, Part â...¡: Effects of thermal activation conditions. Separation and Purification Technology, 2022, 292, 121061.	3.9	3
12	Coal-direct chemical looping hydrogen generation with BaMnO3 perovskite oxygen carrier. Fuel Processing Technology, 2022, 233, 107296.	3.7	9
13	Advances in applications of ionic liquids for phase change CO2 capture. Chemical Engineering Journal, 2022, 445, 136767.	6.6	60
14	Effect of different organic compounds on the preparation of CaO-based CO2 sorbents derived from wet mixing combustion synthesis. Chinese Journal of Chemical Engineering, 2021, 36, 157-169.	1.7	15
15	The potential oxidation characteristics of CaCr2O4 during coal combustion with solid waste in a fluidized bed boiler: A thermogravimetric analysis. Chemosphere, 2021, 263, 127974.	4.2	8
16	Sorption enhanced steam reforming of ethanol over Ni-based catalyst coupling with high-performance CaO pellets. Chemical Engineering Journal, 2021, 406, 126903.	6.6	76
17	Reaction behaviors of a single coal char particle affected by oxygen and steam under oxy-fuel combustion. Fuel, 2021, 291, 120229.	3.4	18
18	Effect of steam addition on turbulence-chemistry interaction behaviors of pulverized coal MILD-oxy combustion. Fuel, 2021, 294, 120496.	3.4	19

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19	Development of a cordierite monolith reactor coated with CeO2-supported BaSrCo-based perovskite for chemical looping steam methane reforming. Fuel Processing Technology, 2021, 220, 106889.	3.7	20
20	Absorption performance and reaction mechanism study on a novel anhydrous phase change absorbent for CO2 capture. Chemical Engineering Journal, 2021, 420, 129897.	6.6	27
21	Low energy-consuming CO2 capture by phase change absorbents of amine/alcohol/H2O. Separation and Purification Technology, 2021, 275, 119181.	3.9	59
22	Glycine tailored effective CaO-based heat carriers for thermochemical energy storage in concentrated solar power plants. Energy Conversion and Management, 2021, 250, 114886.	4.4	29
23	CO2 hydrogenation on CeO2@Cu catalyst synthesized via a solution auto-combustion method. Journal of CO2 Utilization, 2021, 54, 101757.	3.3	3
24	Study on the effect of NaBr modification on CaO-based sorbent for CO2 capture and SO2 capture. Carbon Capture Science & Technology, 2021, 1, 100015.	4.9	33
25	Effect of Sodium Bromide on CaO-Based Sorbents Derived from Three Kinds of Sources for CO2 Capture. ACS Omega, 2020, 5, 17908-17917.	1.6	13
26	High-efficiency CuCe(rod) catalysts for CO2 hydrogenation with high Cu content. Fuel, 2020, 276, 118135.	3.4	19
27	Chemical looping combustion of lignite with the CaSO4â€“CoO mixed oxygen carrier. Journal of the Energy Institute, 2020, 93, 1229-1241.	2.7	28
28	Heterogeneous reactions behaviors of pulverized coal MILD combustion under different injection conditions. Fuel, 2020, 275, 117925.	3.4	25
29	CFD modeling on char surface reaction behavior of pulverized coal MILD-oxy combustion: Effects of oxygen and steam. Fuel Processing Technology, 2020, 204, 106405.	3.7	41
30	Reaction Characteristic Investigation of the Combined Template-Method-Made CaSO₄â€“Mn₃O₄ Mixed Oxygen Carrier with Lignite. Energy & Fuels, 2019, 33, 8954-8966.	2.5	11
31	Computational study on the effect of gasification reaction on pulverized coal MILD combustion diluted by N2 and CO2. Applied Thermal Engineering, 2019, 158, 113806.	3.0	32
32	Development of BaSrCo-based perovskite for chemical-looping steam methane reforming: A study on synergistic effects of A-site elements and CeO2 support. Fuel, 2019, 253, 311-319.	3.4	49
33	Development of LaFeO3 modified with potassium as catalyst for coal char CO2 gasification. Journal of CO2 Utilization, 2019, 32, 163-169.	3.3	24
34	Effect of H2O/CO2 mixture on heat transfer characteristics of pulverized coal MILD-oxy combustion. Fuel Processing Technology, 2019, 184, 27-35.	3.7	56
35	Numerical investigation of the effects of different injection parameters on DamkÃ¶hler number in the natural gas MILD combustion. Fuel, 2019, 237, 60-70.	3.4	38
36	Investigation on the thermodynamic calculation of a 35â€¯MWth oxy-fuel combustion coal-fired boiler. International Journal of Greenhouse Gas Control, 2018, 71, 36-45.	2.3	24

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37	Increasing Porosity of Molded Calciumâ€Based Sorbents by Glucose Templating forÂCyclic CO₂ Capture. Chemical Engineering and Technology, 2018, 41, 956-963.	0.9	21
38	Porous spherical calcium-based sorbents prepared by a bamboo templating method for cyclic CO2 capture. Fuel, 2018, 219, 94-102.	3.4	43
39	NO Removal from Flue Gas Using Conventional Imidazolium-Based Ionic Liquids at High Pressures. Energy & Fuels, 2018, 32, 6039-6048.	2.5	25
40	Oxygen Production for Oxy-fuel Combustion. , 2018, , 263-287.		2
41	Effect of lignin, cellulose and hemicellulose on calcium looping behavior of CaO-based sorbents derived from extrusion-spherization method. Chemical Engineering Journal, 2018, 334, 2520-2529.	6.6	98
42	Effect of Acid Gases on Elemental Mercury Removal in an Oxy-fuel CO₂ Compression Process. Energy & Fuels, 2018, 32, 4334-4340.	2.5	21
43	Experimental Investigation and Process Simulation of Oxy-fuel Flue Gas Denitrification in CO₂ Compression Process. Energy & Fuels, 2018, 32, 11666-11673.	2.5	4
44	A novel composite perovskite-based material for chemical-looping steam methane reforming to hydrogen and syngas. Energy Conversion and Management, 2018, 171, 12-19.	4.4	79
45	NaBr-Enhanced CaO-Based Sorbents with a Macropore-Stabilized Microstructure for CO₂ Capture. Energy & Fuels, 2018, 32, 8571-8578.	2.5	22
46	Potential Synergy of Chlorine and Potassium and Sodium Elements in Carbonation Enhancement of CaO-Based Sorbents. ACS Sustainable Chemistry and Engineering, 2018, 6, 11677-11684.	3.2	47
47	Effects of acidic gases and operation parameters on denitrification in oxy-fuel CO2 compression process. Fuel, 2018, 234, 1285-1292.	3.4	6
48	Natural Calciumâ€Based Sorbents Doped with Sea Salt for Cyclic CO₂ Capture. Chemical Engineering and Technology, 2017, 40, 522-528.	0.9	40
49	Oxygen desorption behavior of sol-gel derived perovskite-type oxides in a pressurized fixed bed reactor. Chemical Engineering Journal, 2017, 323, 340-346.	6.6	32
50	Cyclic CO2 Capture Behavior of Limestone Modified by Qinghai Lake Salt During Long-Term Calcium Looping Cycles. , 2017, , .		1
51	Synthesis of CeO2 Supported BaCoO3 Perovskites for Chemical-Looping Methane Reforming to Syngas and Hydrogen. , 2017, , .		1
52	Characteristics and performance of CaO-based high temperature CO₂ sorbents derived from a solâ€“gel process with different supports. RSC Advances, 2016, 6, 79285-79296.	1.7	75
53	Synthesis and characteristics of BaSrCoFe-based perovskite as a functional material for chemical looping gasification of coal. International Journal of Hydrogen Energy, 2016, 41, 22846-22855.	3.8	25
54	Macropore-Stabilized Limestone Sorbents Prepared by the Simultaneous Hydrationâ€“Impregnation Method for High-Temperature CO₂ Capture. Energy & Fuels, 2016, 30, 3219-3226.	2.5	57

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55	Fundamental and Technical Challenges for a Compatible Design Scheme of Oxyfuel Combustion Technology. Engineering, 2015, 1, 139-149.	3.2	48
56	Wet mixing combustion synthesis of CaO-based sorbents for high temperature cyclic CO2 capture. Chemical Engineering Journal, 2015, 267, 111-116.	6.6	75
57	Cyclic CO2 capture characteristics of a pellet derived from sol-gel CaO powder with Ca12Al14O33 support. Korean Journal of Chemical Engineering, 2015, 32, 934-938.	1.2	27
58	Tailor-Made Coreâ€“Shell CaO/TiO₂â€“Al₂O₃ Architecture as a High-Capacity and Long-Life CO₂ Sorbent. Environmental Science & Technology, 2015, 49, 8237-8245.	4.6	76
59	Effect of A/B-site substitution on oxygen production performance of strontium cobalt based perovskites for CO₂ capture application. RSC Advances, 2015, 5, 39785-39790.	1.7	27
60	Effect of hematite addition to CaSO₄ oxygen carrier in chemical looping combustion of coal char. RSC Advances, 2015, 5, 56362-56376.	1.7	32
61	Effect of sulfation on CO2 capture of CaO-based sorbents during calcium looping cycle. Fuel, 2014, 127, 124-130.	3.4	52
62	Calcium Looping for CO₂ Capture at a Constant High Temperature. Energy & Fuels, 2014, 28, 307-318.	2.5	43
63	Development and characterization of Ba1â^'xSrxCo0.8Fe0.2O3â^'Î´ perovskite for oxygen production in oxyfuel combustion system. Chemical Engineering Journal, 2014, 255, 462-470.	6.6	24
64	Characteristics of SrCo1-xFexO3-Î´Perovskite Powders with Improved O2/CO2Production Performance for Oxyfuel Combustion. Bulletin of the Korean Chemical Society, 2014, 35, 1613-1618.	1.0	13
65	Effect of Sulfation during Oxy-Fuel Calcination Stage in Calcium Looping on CO₂ Capture Performance of CaO-Based Sorbents. Energy & Fuels, 2013, 27, 1008-1014.	2.5	19
66	Manufacture of calcium-based sorbents for high temperature cyclic CO2 capture via a solâ€“gel process. International Journal of Greenhouse Gas Control, 2013, 12, 193-199.	2.3	80
67	Enhancing the performance of CaO/CuO based composite for CO2 capture in a combined Caâ€“Cu chemical looping process. Chemical Engineering Journal, 2013, 228, 75-86.	6.6	45
68	Calcium Looping Technology Using Improved Stability Nanostructured Sorbent for Cyclic CO2 Capture. , 2013, , 1171-1176.		0
69	Effect of Support Material on Carbonation and Sulfation of Synthetic CaO-Based Sorbents in Calcium Looping Cycle. Energy & Fuels, 2013, 27, 4824-4831.	2.5	59
70	Development of Binder-Supported CaSO4 Oxygen Carriers for Chemical Looping Combustion of Methane. , 2013, , 1311-1319.		0
71	Different Sorbents in Calcium Looping Cycle for CO2 Capture. , 2013, , 1053-1057.		0
72	Morphological Changes of Pure Microâ€•and Nanoâ€Sized CaCO₃during a Calcium Looping Cycle for CO₂ Capture. Chemical Engineering and Technology, 2012, 35, 547-554.	0.9	35

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73	Development and Testing of an Interconnected Fluidizedâ€Bed System for Chemical Looping Combustion. Chemical Engineering and Technology, 2012, 35, 532-538.	0.9	15
74	Development and performance of binder-supported CaSO4 oxygen carriers for chemical looping combustion. Chemical Engineering Journal, 2011, 171, 1018-1026.	6.6	34
75	Enhanced cyclic stability of CO2 adsorption capacity of CaO-based sorbents using La2O3 or Ca12Al14O33 as additives. Korean Journal of Chemical Engineering, 2011, 28, 1042-1046.	1.2	67
76	Investigation into compound CaSO4 oxygen carrier for chemical-looping combustion. Journal of Fuel Chemistry and Technology, 2011, 39, 161-168.	0.9	17
77	SGCS-made ultrafine CaO/Al2O3 sorbent for cyclic CO2 capture. Chinese Chemical Letters, 2011, 22, 615-618.	4.8	39
78	Development and Performance of CaO/La₂O₃Sorbents during Calcium Looping Cycles for CO₂Capture. Industrial & Engineering Chemistry Research, 2010, 49, 11778-11784.	1.8	156