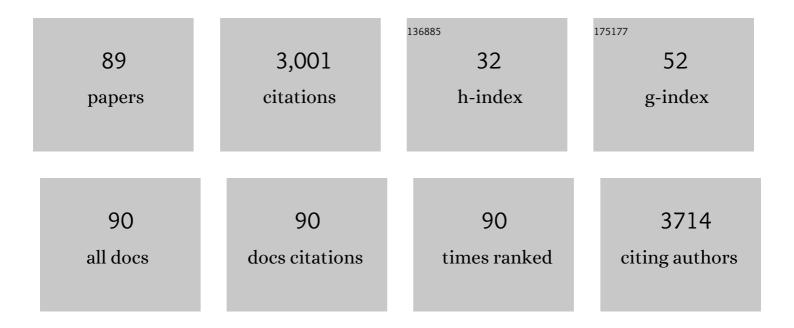
Cheng-gong Sun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effectiveness of bed additives in abating agglomeration during biomass air/oxy combustion in a fluidised bed combustor. Renewable Energy, 2022, 185, 945-958.	4.3	3
2	Microwave-triggered low temperature thermal reduction of Zr-modified high entropy oxides with extraordinary thermochemical H2 production performance. Energy Conversion and Management, 2022, 252, 115125.	4.4	15
3	Development of cost-effective PCM-carbon foam composites for thermal energy storage. Energy Reports, 2022, 8, 1696-1703.	2.5	24
4	From polyvinyl chloride waste to activated carbons: the role of occurring additives on porosity development and gas adsorption properties. Science of the Total Environment, 2022, 833, 154894.	3.9	12
5	Synthesis and characterization of advanced bio-carbon materials from Kraft lignin with enhanced CO2 capture properties. Journal of Environmental Chemical Engineering, 2022, 10, 107471.	3.3	4
6	Development of MgSO <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">id="d1e673" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mrow </mml:msub></mml:math> /mesoporous silica composites for thermochemical energy storage: the role of porous structure on water adsorption.	2.5	7
7	Energy Reports, 2022, 8, 4913-4921. Amine functionalized mesocellular silica foam as highly efficient sorbents for CO2 capture. Separation and Purification Technology, 2022, 299, 121539.	3.9	8
8	Microwave steam gasification of semi-coke derived from co-pyrolysis of fungus chaff and lignite. International Journal of Coal Preparation and Utilization, 2021, 41, 830-843.	1.2	6
9	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO2 capture on a 100Âkg scale in a fluidized bed continuous unit. Chemical Engineering Journal, 2021, 407, 127209.	6.6	7
10	Experimental investigations on the chlorine-induced corrosion of HVOF thermal sprayed Stellite-6 and NiAl coatings with fluidised bed biomass/anthracite combustion systems. Fuel, 2021, 288, 119607.	3.4	13
11	Influence of co-processing of coal and oil shale on combustion characteristics, kinetics and ash fusion behaviour. Energy, 2021, 216, 119229.	4.5	16
12	Comprehensive evaluation of ionic liquid [Bmim][PF6] for absorbing toluene and acetone. Environmental Pollution, 2021, 285, 117675.	3.7	17
13	Adsorption performance and kinetic study of hierarchical porous Fe-based MOFs for toluene removal. Science of the Total Environment, 2021, 793, 148622.	3.9	58
14	Chemical Characteristics of Ash Formed from the Combustion of Shoe Manufacturing Waste in a 2.5 MWth Circulating Fluidized Bed Combustor. Waste and Biomass Valorization, 2020, 11, 4551-4560.	1.8	2
15	Preparation of 3D network CNTs-modified nickel foam with enhanced microwave absorptivity and application potential in wastewater treatment. Science of the Total Environment, 2020, 702, 135006.	3.9	10
16	Design and development of 3D hierarchical ultra-microporous CO2-sieving carbon architectures for potential flow-through CO2 capture at typical practical flue gas temperatures. Journal of Materials Chemistry A, 2020, 8, 17025-17035.	5.2	17
17	Synthesis of functionalized 3D microporous carbon foams for selective CO2 capture. Chemical Engineering Journal, 2020, 402, 125459.	6.6	20
18	Demonstrating the applicability of chemical looping combustion for the regeneration of fluid catalytic cracking catalysts. Chemical Engineering Journal, 2020, 389, 124492.	6.6	19

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19	Cyclic performance evaluation of a polyethylenimine/silica adsorbent with steam regeneration using simulated NGCC flue gas and actual flue gas of a gas-fired boiler in a bubbling fluidized bed reactor. International Journal of Greenhouse Gas Control, 2020, 95, 102975.	2.3	6
20	Comparative study of the inherent combustion reactivity of sawdust chars produced by TGA and in the drop tube furnace. Fuel Processing Technology, 2020, 201, 106361.	3.7	20
21	Mesocellular silica foam supported polyamine adsorbents for dry CO2 scrubbing: Performance of single versus blended polyamines for impregnation. Applied Energy, 2019, 255, 113643.	5.1	23
22	Synthesis of microcapsules for carbon capture via needle-based droplet microfluidics. Energy Procedia, 2019, 160, 443-450.	1.8	8
23	Exergetic, economic and carbon emission studies of bio-olefin production via indirect steam gasification process. Energy, 2019, 187, 115933.	4.5	19
24	Continuous testing of silica-PEI adsorbents in a labscale twin bubbling fluidized-bed system. International Journal of Greenhouse Gas Control, 2019, 82, 184-191.	2.3	19
25	Selective low temperature chemical looping combustion of higher alkanes with Cu- and Mn- oxides. Energy, 2019, 173, 658-666.	4.5	22
26	Mechanisms of Toluene Removal in Relation to the Main Components of Biosyngas in a Catalytic Nonthermal Plasma Process. Energy & Fuels, 2019, 33, 4287-4301.	2.5	18
27	A novel approach to CO2 capture in Fluid Catalytic Cracking—Chemical Looping Combustion. Fuel, 2019, 244, 140-150.	3.4	32
28	Developing hierarchically ultra-micro/mesoporous biocarbons for highly selective carbon dioxide adsorption. Chemical Engineering Journal, 2019, 361, 199-208.	6.6	79
29	An investigation of lime addition to fuel as a countermeasure to bed agglomeration for the combustion of non-woody biomass fuels in a 20kWth bubbling fluidised bed combustor. Fuel, 2019, 240, 349-361.	3.4	25
30	A Review of Stateâ€ofâ€theâ€Art Microfluidic Technologies for Environmental Applications: Detection and Remediation. Global Challenges, 2019, 3, 1800060.	1.8	66
31	Microwave-based preparation and characterization of Fe-cored carbon nanocapsules with novel stability and super electromagnetic wave absorption performance. Carbon, 2018, 135, 1-11.	5.4	60
32	High Density and Super Ultraâ€Microporousâ€Activated Carbon Macrospheres with High Volumetric Capacity for CO ₂ Capture. Advanced Sustainable Systems, 2018, 2, 1700115.	2.7	30
33	Oxy-fuel combustion study of biomass fuels in a 20†kWth fluidized bed combustor. Fuel, 2018, 215, 778-786.	3.4	124
34	Coupling detailed radiation model with process simulation in Aspen Plus: A case study on fluidized bed combustor. Applied Energy, 2018, 227, 168-179.	5.1	18
35	Ultrasonic and hydrothermal mediated synthesis routes for functionalized Mg-Al LDH: Comparison study on surface morphology, basic site strength, cyclic sorption efficiency and effectiveness. Ultrasonics Sonochemistry, 2018, 40, 341-352.	3.8	38
36	Synthesis and functionalisation of spherical meso-, hybrid meso/macro- and macro-porous cellular silica foam materials with regulated pore sizes for CO ₂ capture. Journal of Materials Chemistry A, 2018, 6, 23587-23601.	5.2	32

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37	A facile route to bespoke macro- and mesoporous block copolymer microparticles. Polymer Chemistry, 2018, 9, 3808-3819.	1.9	7
38	Structural transformation of fluid phase extracted from coal matrix during thermoplastic stage of coal pyrolysis. Fuel, 2018, 232, 374-383.	3.4	40
39	Sonochemical surface functionalization of exfoliated LDH: Effect on textural properties, CO2 adsorption, cyclic regeneration capacities and subsequent gas uptake for simultaneous methanol synthesis. Ultrasonics Sonochemistry, 2017, 39, 330-343.	3.8	19
40	Microwave-induced activation of additional active edge sites on the MoS 2 surface for enhanced Hg 0 capture. Applied Surface Science, 2017, 420, 439-445.	3.1	25
41	Dynamic Experimental Investigation on the Volatilization Behavior of Lead and Cadmium in the Simulated Municipal Solid Waste (MSW) Influenced by Sulfur Compounds during Incineration. Energy & Fuels, 2017, 31, 847-853.	2.5	8
42	Process simulations of post-combustion CO 2 capture for coal and natural gas-fired power plants using a polyethyleneimine/silica adsorbent. International Journal of Greenhouse Gas Control, 2017, 58, 276-289.	2.3	34
43	Further Improvement of Fluidized Bed Models by Incorporating Zone Method with Aspen Plus Interface. Energy Procedia, 2017, 105, 1895-1901.	1.8	3
44	Effects of annealing temperature and time on decrepitation of lump coals and characteristics of resultant coal chars. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 732-744.	0.8	2
45	Experimental investigation of woody and non-woody biomass combustion in a bubbling fluidised bed combustor focusing on gaseous emissions and temperature profiles. Energy, 2017, 141, 2069-2080.	4.5	74
46	Potassium and Zeolitic Structure Modified Ultra-microporous Adsorbent Materials from a Renewable Feedstock with Favorable Surface Chemistry for CO ₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 26826-26839.	4.0	36
47	Parametric study on the regeneration heat requirement of an amine-based solid adsorbent process for post-combustion carbon capture. Applied Energy, 2016, 168, 394-405.	5.1	136
48	Experimental Evaluation of a Chinese Sulfur-Containing Lean Iron Ore as the Oxygen Carrier for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2016, 55, 428-435.	1.8	11
49	Impact of CO2 on biomass pyrolysis, nitrogen partitioning, and char combustion in a drop tube furnace. Journal of Analytical and Applied Pyrolysis, 2015, 113, 323-331.	2.6	55
50	Carbon Dioxide Separation from Nitrogen/Hydrogen Mixtures over Activated Carbon Beads: Adsorption Isotherms and Breakthrough Studies. Energy & Fuels, 2015, 29, 3796-3807.	2.5	27
51	Spherical potassium intercalated activated carbon beads for pulverised fuel CO2 post-combustion capture. Carbon, 2015, 94, 243-255.	5.4	65
52	Surface-modified spherical activated carbon materials for pre-combustion carbon dioxide capture. RSC Advances, 2015, 5, 33681-33690.	1.7	41
53	Coking and deactivation of a mesoporous Ni–CaO–ZrO2 catalyst in dry reforming of methane: A study under different feeding compositions. Fuel, 2015, 143, 527-535.	3.4	90
54	OxyCAP UK: Oxyfuel Combustion - academic Programme for the UK. Energy Procedia, 2014, 63, 504-510.	1.8	1

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55	Indirect electrochemical reduction of carbon dioxide to carbon nanopowders in molten alkali carbonates: Process variables and product properties. Carbon, 2014, 73, 163-174.	5.4	122
56	Performance of polyethyleneimine–silica adsorbent for post-combustion CO2 capture in a bubbling fluidized bed. Chemical Engineering Journal, 2014, 251, 293-303.	6.6	79
57	Nitrogen-enriched and hierarchically porous carbon macro-spheres – ideal for large-scale CO ₂ capture. Journal of Materials Chemistry A, 2014, 2, 5481-5489.	5.2	66
58	The Properties of Individual Carbon Residuals and Their Influence on The Deactivation of Ni–CaO–ZrO ₂ Catalysts in CH ₄ Dry Reforming. ChemCatChem, 2014, 6, 640-648.	1.8	69
59	Capturing CO2 from ambient air using a polyethyleneimine–silica adsorbent in fluidized beds. Chemical Engineering Science, 2014, 116, 306-316.	1.9	136
60	Development of Low-Cost Functional Adsorbents for Control of Mercury (Hg) Emissions from Coal Combustion. Energy & Fuels, 2013, 27, 3875-3882.	2.5	37
61	Environmental Concerns Regarding CO2. , 2013, , 415-454.		Ο
62	Impact of biomass char on coal char burn-out under air and oxy-fuel conditions. Fuel, 2013, 114, 128-134.	3.4	62
63	CO ₂ Capture with Activated Carbon Grafted by Nitrogenous Functional Groups. Energy & Fuels, 2013, 27, 4818-4823.	2.5	67
64	High capacity co-precipitated manganese oxides sorbents for oxidative mercury capture. Fuel, 2013, 109, 559-562.	3.4	39
65	Synthesis, characterization and evaluation of activated spherical carbon materials for CO2 capture. Fuel, 2013, 113, 854-862.	3.4	47
66	Control of NOx emissions of a domestic/small-scale biomass pellet boiler by air staging. Fuel, 2013, 103, 792-798.	3.4	98
67	Physical and electrochemical characterization of CuO-doped activated carbon in ionic liquid. Electrochimica Acta, 2010, 55, 2667-2672.	2.6	14
68	Electrochemical performance of electrochemical capacitors using Cu(II)-containing ionic liquid as the electrolyte. Microporous and Mesoporous Materials, 2010, 128, 56-61.	2.2	59
69	Preparation of spherical activated carbon with hierarchical porous texture. Journal of Materials Science, 2009, 44, 4750-4753.	1.7	12
70	Comparison of Mercury Retention by Fly Ashes Using Different Experimental Devices. Industrial & Engineering Chemistry Research, 2009, 48, 10702-10707.	1.8	1
71	Biomedical and Forensic Applications of Combined Catalytic Hydrogenation-Stable Isotope Ratio Analysis. Analytical Chemistry Insights, 2007, 2, 117739010700200.	2.7	4
72	An investigation of Cu2+ and Fe2+ ions as active materials for electrochemical redox supercapacitors. Journal of Electroanalytical Chemistry, 2007, 611, 43-50.	1.9	83

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73	Biomedical and forensic applications of combined catalytic hydrogenation-stable isotope ratio analysis. Analytical Chemistry Insights, 2007, 2, 37-42.	2.7	3
74	Application of 1-ethyl-3-methylimidazolium thiocyanate to the electrolyte of electrochemical double layer capacitors. Journal of Power Sources, 2006, 162, 1444-1450.	4.0	63
75	Evaluation of errors associated with δ13C analysis of lignin-derived TMAH thermochemolysis products by gas chromatography–combustion–isotope ratio mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2006, 76, 88-95.	2.6	4
76	Hydropyrolysis: A new technique for the analysis of macromolecular material in meteorites. Planetary and Space Science, 2005, 53, 1280-1286.	0.9	27
77	Hydropyrolysis as a preparative method for the compound-specific carbon isotope analysis of fatty acids. Rapid Communications in Mass Spectrometry, 2005, 19, 323-325.	0.7	18
78	Hydropyrolysis of steroids: a preparative step for compound-specific carbon isotope ratio analysis. Rapid Communications in Mass Spectrometry, 2005, 19, 3339-3342.	0.7	12
79	Use of Nitrogen Stable Isotope Analysis To Understand Char Nitrogen Evolution during the Fluidized-Bed Co-combustion of Coal and Sewage Sludge. Energy & Fuels, 2005, 19, 485-488.	2.5	7
80	Resolving coal and petroleum-derived polycyclic aromatic hydrocarbons (PAHs) in some contaminated land samples using compound-specific stable carbon isotope ratio measurements in conjunction with molecular fingerprintsa~†. Fuel, 2003, 82, 2017-2023.	3.4	33
81	Use of compound-specificδ13C andδD stable isotope measurements as an aid in the source apportionment of polyaromatic hydrocarbons. Rapid Communications in Mass Spectrometry, 2003, 17, 2611-2613.	0.7	40
82	Source apportionment of polycyclic aromatic hydrocarbons in a coastal lagoon by molecular and isotopic characterisation. Marine Chemistry, 2003, 84, 123-135.	0.9	49
83	Sourcing of Fossil Fuel-Derived PAH in the Environment. Polycyclic Aromatic Compounds, 2000, 20, 97-109.	1.4	25
84	Use of Compound-Specific Stable Isotope Analysis to Source Anthropogenic Natural Gas-Derived Polycyclic Aromatic Hydrocarbons in a Lagoon Sediment. Environmental Science & Technology, 2000, 34, 4684-4686.	4.6	61
85	Î13C values of coal-derived PAHs from different processes and their application to source apportionment. Organic Geochemistry, 1999, 30, 881-889.	0.9	82
86	Structural Characteristics of Coal Surface and Coal Slurryability. Coal Science and Technology, 1995, 24, 1589-1592.	0.0	1
87	Effect of mineral matters on the properties of coal water slurry. Coal Science and Technology, 1995, 24, 1593-1596.	0.0	4
88	Study on the evolution of internal and external water of lignite during microwave drying and the moisture reabsorption characteristics of dried lignite. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-18.	1.2	3
89	Microwave-induced high-energy sites and targeted energy transition promising for efficient energy deployment. Frontiers in Energy, 0, , 1.	1.2	2