

Jing Liu

List of Publications by Year in descending order

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160
papers

6,213
citations

44069

48
h-index

95266

68
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all docs

160
docs citations

160
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on the synergistically improved reactivity of spinel NiFe ₂ O ₄ oxygen carrier for chemical-looping combustion. <i>Energy</i> , 2022, 239, 122100.	8.8	24
2	Two-dimensional WS ₂ as a new mercury removal material: Mercury conversion pathway and effect of defect. <i>Fuel</i> , 2022, 307, 121864.	6.4	14
3	Understanding A-site tuning effect on formaldehyde catalytic oxidation over La-Mn perovskite catalysts. <i>Journal of Hazardous Materials</i> , 2022, 422, 126931.	12.4	31
4	Performance and mechanism of CuS-modified MWCNTs on mercury removal: Experimental and density functional theory study. <i>Fuel</i> , 2022, 309, 122238.	6.4	47
5	Enhanced photocatalytic Hg ⁰ oxidation activity of iodine doped bismuth molybdate (Bi ₂ MoO ₆) under visible light. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1864-1875.	9.4	18
6	Mercury/oxygen reaction mechanism over CuFe ₂ O ₄ catalyst. <i>Journal of Hazardous Materials</i> , 2022, 424, 127556.	12.4	20
7	Reaction chemistry of PbSO ₄ formation over Al ₂ O ₃ sorbent. <i>Fuel</i> , 2022, 310, 122407.	6.4	5
8	Insight into the synergy effect on the improved reactivity of spinel NiMn ₂ O ₄ oxygen carrier in chemical looping combustion. <i>Fuel</i> , 2022, 313, 122680.	6.4	5
9	Tunable Cu ^{II} /M bimetal catalysts enable syngas electrosynthesis from carbon dioxide. <i>New Journal of Chemistry</i> , 2022, 46, 1203-1209.	2.8	9
10	Experimental and theoretical study of arsenic removal by porous carbon from MSW incineration flue gas. <i>Fuel</i> , 2022, 312, 123000.	6.4	18
11	Mechanistic insights into benzene oxidation over CuMn ₂ O ₄ catalyst. <i>Journal of Hazardous Materials</i> , 2022, 431, 128640.	12.4	16
12	Porous aromatic frameworks with metallized catecholate ligands for CO ₂ capture from gas mixtures: A molecular simulation study. <i>Fuel</i> , 2022, 319, 123768.	6.4	7
13	As ₂ O ₃ capture from incineration flue gas by Fe ₂ O ₃ -modified porous carbon: Experimental and DFT insights. <i>Fuel</i> , 2022, 321, 124079.	6.4	15
14	Vacancy-mediated transition metals as efficient electrocatalysts for water splitting. <i>Nanoscale</i> , 2022, 14, 7181-7188.	5.6	8
15	Effect mechanism of NO on electrocatalytic reduction of CO ₂ to CO over Pd@Cu bimetal catalysts. <i>Fuel</i> , 2022, 323, 124339.	6.4	9
16	Electrocatalytic reduction of CO ₂ to C ₁ products over bimetal catalysts: A DFT screening study. <i>Fuel Processing Technology</i> , 2022, 233, 107315.	7.2	13
17	Interaction mechanism between CO and H ₂ S over CuFe ₂ O ₄ oxygen carrier during chemical-looping combustion: A DFT study. <i>Fuel</i> , 2022, 324, 124720.	6.4	3
18	Tunable Pd enrichment for switching CO ₂ electroreduction product selectivity from HCOOH to CO. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108056.	6.7	5

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19	Rational design via surface engineering on dual 2-dimensional ZnSe/g-C ₃ N ₄ heterojunction for efficient sequestration of elemental mercury. <i>Chemical Engineering Journal</i> , 2022, 448, 137606.	12.7	16
20	Review on the Theoretical Understanding of Oxygen Carrier Development for Chemical-Looping Technologies. <i>Energy & Fuels</i> , 2022, 36, 9373-9384.	5.1	12
21	The reaction characteristics and mechanism of pine sawdust chemical-looping gasification based on CoFe ₂ O ₄ oxygen carrier. <i>Renewable Energy</i> , 2022, 195, 1300-1309.	8.9	3
22	Experimental and theoretical studies on formaldehyde catalytic combustion over Cu-Fe spinel-type catalyst. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6483-6491.	3.9	16
23	Charge-distribution modulation of copper ferrite spinel-type catalysts for highly efficient Hg ⁰ oxidation. <i>Journal of Hazardous Materials</i> , 2021, 402, 123576.	12.4	49
24	Mechanistic investigation of elemental mercury adsorption over silver-modified vanadium silicate: A DFT study. <i>Journal of Hazardous Materials</i> , 2021, 404, 124108.	12.4	17
25	Efficient capture of gaseous elemental mercury based on novel copper-based metal-organic frameworks. <i>Fuel</i> , 2021, 289, 119791.	6.4	24
26	FeS ₂ -anchored transition metal single atoms for highly efficient overall water splitting: a DFT computational screening study. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2438-2447.	10.3	73
27	Reaction mechanism of elemental mercury oxidation to HgSO ₄ during SO ₂ /SO ₃ conversion over V ₂ O ₅ /TiO ₂ catalyst. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4317-4325.	3.9	17
28	Effects of functional groups for CO ₂ capture using metal organic frameworks. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 437-449.	4.4	26
29	Post-synthetic metalation of porous framework materials for achieving high natural gas storage and working capacity: A GCMC simulation study. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110931.	4.4	3
30	Theoretical study of reduction mechanism of Fe ₂ O ₃ by H ₂ during chemical looping combustion. <i>Chinese Journal of Chemical Engineering</i> , 2021, 37, 175-183.	3.5	12
31	Construction of an Anion-Pillared MOF Database and the Screening of MOFs Suitable for Xe/Kr Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11039-11049.	8.0	60
32	The role of SO ₂ in arsenic removal by carbon-based sorbents: A DFT study. <i>Chemical Engineering Journal</i> , 2021, 410, 128439.	12.7	29
33	Molecular study of heterogeneous mercury conversion mechanism over Cu-MOFs: Oxidation pathway and effect of halogen. <i>Fuel</i> , 2021, 290, 120030.	6.4	24
34	A catalytic reaction scheme for NO reduction by CO over Mn-terminated LaMnO ₃ perovskite: A DFT study. <i>Fuel Processing Technology</i> , 2021, 216, 106798.	7.2	26
35	Experimental and theoretical insights into the mechanism of spinel CoFe ₂ O ₄ reduction in CO chemical looping combustion. <i>Fuel</i> , 2021, 293, 120473.	6.4	14
36	Insights into the mechanism of lead species adsorption over Al ₂ O ₃ sorbent. <i>Journal of Hazardous Materials</i> , 2021, 413, 125371.	12.4	25

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37	Water-Soluble Trifunctional Binder for Sulfur Cathodes for Lithium-Sulfur Battery. ACS Applied Materials & Interfaces, 2021, 13, 33066-33074.	8.0	36
38	Nickel Nanoparticles Encapsulated in SSZ-13 Cage for Highly Efficient CO ₂ Hydrogenation. Energy & Fuels, 2021, 35, 13240-13248.	5.1	19
39	On-line detection and kinetic study of selenium release during combustion, gasification and pyrolysis of sawdust. Chemosphere, 2021, 277, 130363.	8.2	4
40	Mechanistic understanding of CO ₂ hydrogenation to methane over Ni/CeO ₂ catalyst. Applied Surface Science, 2021, 558, 149866.	6.1	46
41	Different Reactivities of the (100) and (110) Surfaces of the NiFe ₂ O ₄ Composite Oxygen Carrier in Chemical Looping Combustion: An Atomic Insight. Journal of Physical Chemistry C, 2021, 125, 19190-19199.	3.1	7
42	Reaction mechanism of dichloromethane oxidation on LaMnO ₃ perovskite. Chemosphere, 2021, 277, 130194.	8.2	8
43	Experimental and theoretical insights into the reaction mechanism of spinel CuMn ₂ O ₄ with CO in chemical-looping combustion. Applied Surface Science, 2021, 561, 150065.	6.1	17
44	Mechanistic study of the effect of oxygen vacancy and sulfur poisoning on the reaction of copper ferrite spinel with CO during chemical-looping combustion. Fuel, 2021, 299, 120931.	6.4	14
45	Mechanistic study on the role of oxygen vacancy for methylene chloride oxidation over La-Mn perovskite. Applied Surface Science, 2021, 559, 149979.	6.1	5
46	High-Throughput Screening of Anion-Pillared Metal-Organic Frameworks for the Separation of Light Hydrocarbons. Journal of Physical Chemistry C, 2021, 125, 20076-20086.	3.1	17
47	Two-dimensional pyrite supported transition metal for highly-efficient electrochemical CO ₂ reduction: A theoretical screening study. Chemical Engineering Journal, 2021, 424, 130541.	12.7	31
48	Crystal orientation effects on the electrochemical conversion of CO ₂ to syngas over Cu-M (M=Ag, Ni) Tj ETQq0 0.0 rgBT /Qverlock 10	6.1	19
49	Nanosized Cu-In spinel-type sulfides as efficient sorbents for elemental mercury removal from flue gas. Science of the Total Environment, 2021, 796, 149094.	8.0	14
50	Electrochemical conversion of CO ₂ to syngas over Cu-M (M=Cd, Zn, Ni, Ag, and Pd) bimetal catalysts. Fuel, 2021, 304, 121341.	6.4	26
51	Exploring reaction mechanism of CO oxidation over SrCoO ₃ catalyst: A DFT study. Applied Surface Science, 2021, 570, 151234.	6.1	11
52	Atomic-level mechanism of the effects of NO _x species on Pb adsorption over the Al ₂ O ₃ sorbent surface. Applied Surface Science, 2021, 570, 151217.	6.1	6
53	Theoretical insights into H ₂ S reaction mechanism over CuFe ₂ O ₄ oxygen carrier. Journal of the Energy Institute, 2021, 99, 120-126.	5.3	10
54	Experimental and theoretical studies of cadmium adsorption over Fe ₂ O ₃ sorbent in incineration flue gas. Chemical Engineering Journal, 2021, 425, 131647.	12.7	26

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55	Bimetallic Fe-Cu-Based Metal-Organic Frameworks as Efficient Adsorbents for Gaseous Elemental Mercury Removal. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 781-789.	3.7	25
56	Computational Design of Porous Framework Materials with Transition-Metal Alkoxide Ligands for Highly Selective Separation of N_2 over CH_4 . <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 378-386.	3.7	7
57	Chelation of transition metals into MOFs as a promising method for enhancing CO_2 capture: A computational study. <i>AIChE Journal</i> , 2020, 66, e16835.	3.6	8
58	Insights into the catalytic behavior of $LaMnO_3$ perovskite for HgO oxidation by HCl . <i>Journal of Hazardous Materials</i> , 2020, 383, 121156.	12.4	82
59	Temporal influence of reaction atmosphere and chlorine on arsenic release in combustion, gasification and pyrolysis of sawdust. <i>Journal of Hazardous Materials</i> , 2020, 382, 121047.	12.4	19
60	Experimental and DFT studies of the role of H_2S in HgO removal from syngas over $CuMn_2O_4$ sorbent. <i>Chemical Engineering Journal</i> , 2020, 391, 123616.	12.7	39
61	AMn_2O_4 (A=Cu, Ni and Zn) sorbents coupling high adsorption and regeneration performance for elemental mercury removal from syngas. <i>Journal of Hazardous Materials</i> , 2020, 388, 121738.	12.4	102
62	Metal-Metal Interactions of Ternary Spinel for Efficient NH_3 Selective Catalytic Reduction of NO_x at a Low Temperature. <i>Energy & Fuels</i> , 2020, 34, 15424-15432.	5.1	13
63	Nitrogen/Oxygen Co-Doped Porous Carbon Derived from Biomass for Low-Pressure CO_2 Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14055-14063.	3.7	40
64	Nanosized Zn-In Spinel-Type Sorbents for Elemental Mercury Removal from Flue Gas. <i>Energy & Fuels</i> , 2020, 34, 12853-12859.	5.1	16
65	CO_2 -mediated sulfur evolution chemistry of pyrite oxidation during oxy-fuel combustion. <i>Combustion and Flame</i> , 2020, 218, 75-83.	5.2	8
66	Molecular Understanding of Heterogeneous Mercury Adsorption and Oxidation Mechanisms over the $CuCl_2/TiO_2$ Sorbent. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12610-12616.	3.7	7
67	Computational screening of heterocycle decorations in metal-organic frameworks for efficient C_2/C_1 adsorption and separation. <i>Fuel</i> , 2020, 279, 118431.	6.4	6
68	Molecular Mechanistic Nature of Elemental Mercury Oxidation by Surface Oxygens over the Co_3O_4 Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4605-4612.	3.1	24
69	Catalytic reaction mechanism of formaldehyde oxidation by oxygen species over Pt/TiO_2 catalyst. <i>Chemosphere</i> , 2020, 248, 125980.	8.2	46
70	Metal-organic frameworks chelated by zinc fluorides for ultra-high affinity to acetylene during C_2/C_1 separations. <i>Fuel</i> , 2020, 266, 117037.	6.4	10
71	Regenerable $CoxMn_{3-x}O_4$ spinel sorbents for elemental mercury removal from syngas: Experimental and DFT studies. <i>Fuel</i> , 2020, 266, 117105.	6.4	28
72	Reaction mechanisms and chemical kinetics of mercury transformation during coal combustion. <i>Progress in Energy and Combustion Science</i> , 2020, 79, 100844.	31.2	145

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73	Plasma-Modified N/O-Doped Porous Carbon for CO ₂ Capture: An Experimental and Theoretical Study. <i>Energy & Fuels</i> , 2020, 34, 6077-6084.	5.1	42
74	Elucidating the mechanism of Hg ⁰ oxidation by chlorine species over Co ₃ O ₄ catalyst at molecular level. <i>Applied Surface Science</i> , 2020, 513, 145885.	6.1	22
75	Temporal release behavior of potassium during pyrolysis and gasification of sawdust particles. <i>Renewable Energy</i> , 2020, 156, 98-106.	8.9	16
76	Experimental and Theoretical Insights into the Effect of Syngas Components on Hg ⁰ Removal over CoMn ₂ O ₄ Sorbent. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8078-8085.	3.7	22
77	Highly efficient separations of C ₂ H ₂ from C ₂ H ₂ /CO and C ₂ H ₂ /H ₂ in metal-organic frameworks with ZnF ₂ chelation: A molecular simulation study. <i>Fuel</i> , 2020, 271, 117598.	6.4	6
78	Reaction mechanism of CO ₂ methanation over Rh/TiO ₂ catalyst. <i>Fuel</i> , 2020, 276, 118093.	6.4	63
79	Comprehensive evolution mechanism of SO _x formation during pyrite oxidation. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2809-2819.	3.9	24
80	Heterogeneous reaction mechanism of elemental mercury oxidation by oxygen species over MnO ₂ catalyst. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2967-2975.	3.9	80
81	Reaction mechanism of spinel CuFe ₂ O ₄ with CO during chemical-looping combustion: An experimental and theoretical study. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4399-4408.	3.9	59
82	Nature of Active Sites and an Oxygen-Assisted Reaction Mechanism for Mercury Capture by Spinel-Type CuMn ₂ O ₄ Sorbents. <i>Energy & Fuels</i> , 2019, 33, 8920-8926.	5.1	15
83	Cost-Effective Manganese Ore Sorbent for Elemental Mercury Removal from Flue Gas. <i>Environmental Science & Technology</i> , 2019, 53, 9957-9965.	10.0	45
84	Density Functional Theory Study on the Reaction Mechanism of Spinel CoFe ₂ O ₄ with CO during Chemical-Looping Combustion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17335-17342.	3.1	27
85	Highly Selective Separations of C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /C ₂ H ₆ in Metal-Organic Frameworks via Pore Environment Design. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19946-19957.	3.7	22
86	Metal-Organic Frameworks Grafted by Univariate and Multivariate Heterocycles for Enhancing CO ₂ Capture: A Molecular Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2195-2205.	3.7	17
87	Interface reaction activity of recyclable and regenerable Cu-Mn spinel-type sorbent for Hg ⁰ capture from flue gas. <i>Chemical Engineering Journal</i> , 2019, 372, 697-707.	12.7	69
88	Roles of Oxygen Functional Groups in Hydrogen Sulfide Adsorption on Activated Carbon Surface: A Density Functional Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5526-5532.	3.7	20
89	A complete catalytic reaction scheme for Hg ⁰ oxidation by HCl over RuO ₂ /TiO ₂ catalyst. <i>Journal of Hazardous Materials</i> , 2019, 373, 660-670.	12.4	17
90	Theoretical Investigation of Arsenic and Selenium Species Adsorption Behavior on Different Mineral Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23559-23566.	3.7	15

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91	Mechanistic Landscape of HCl-Mediated Hg ⁰ Capture by Magnetite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30434-30442.	3.1	7
92	Reaction mechanism for NH ₃ -SCR of NO _x over CuMn ₂ O ₄ catalyst. <i>Chemical Engineering Journal</i> , 2019, 361, 578-587.	12.7	146
93	Elemental mercury removal from syngas by porous carbon-supported CuCl ₂ sorbents. <i>Fuel</i> , 2019, 239, 138-144.	6.4	82
94	Development of O ₂ and NO Co-Doped Porous Carbon as a High-Capacity Mercury Sorbent. <i>Environmental Science & Technology</i> , 2019, 53, 1725-1731.	10.0	54
95	Design of O ₂ /SO ₂ dual-doped porous carbon as superior sorbent for elemental mercury removal from flue gas. <i>Journal of Hazardous Materials</i> , 2019, 366, 321-328.	12.4	79
96	Release of Na from sawdust during air and oxy-fuel combustion: A combined temporal detection, thermodynamics and kinetic study. <i>Fuel</i> , 2018, 221, 249-256.	6.4	14
97	A skeletal reaction scheme for selective catalytic reduction of NO _x with NH ₃ over CeO ₂ /TiO ₂ catalyst. <i>Fuel Processing Technology</i> , 2018, 174, 17-25.	7.2	40
98	Oxygen Production for Oxy-fuel Combustion. , 2018, , 263-287.		2
99	Quantitative Analysis of Calorific Value of Coal Based on Spectral Preprocessing by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Energy & Fuels</i> , 2018, 32, 24-32.	5.1	52
100	Density functional study of hydrogen sulfide adsorption mechanism on activated carbon. <i>Fuel Processing Technology</i> , 2018, 171, 258-264.	7.2	98
101	Effects of incorporated oxygen and sulfur heteroatoms into ligands for CO ₂ /N ₂ and CO ₂ /CH ₄ separation in metal-organic frameworks: A molecular simulation study. <i>Fuel</i> , 2018, 226, 591-597.	6.4	29
102	Molecular-level insights into mercury removal mechanism by pyrite. <i>Journal of Hazardous Materials</i> , 2018, 344, 104-112.	12.4	138
103	Effect of the Mechanism of H ₂ S on Elemental Mercury Removal Using the MnO ₂ Sorbent during Coal Gasification. <i>Energy & Fuels</i> , 2018, 32, 4453-4460.	5.1	44
104	Insights into the Effects of Atmosphere and Chlorine on Potassium Release during Biomass Combustion: Temporal Measurement and Kinetic Studies. <i>Energy & Fuels</i> , 2018, 32, 12523-12531.	5.1	17
105	Oxygen-Rich Porous Carbon Derived from Biomass for Mercury Removal: An Experimental and Theoretical Study. <i>Langmuir</i> , 2018, 34, 12049-12057.	3.5	36
106	Molecular-Level Insights into Effect Mechanism of H ₂ S on Mercury Removal by Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7889-7897.	3.7	15
107	A mechanistic study of CO oxidation over spinel MnFe ₂ O ₄ surface during chemical-looping combustion. <i>Fuel</i> , 2018, 230, 410-417.	6.4	35
108	Ab Initio Study of Gas Adsorption in Metal-Organic Frameworks Modified by Lithium: The Significant Role of Li-Containing Functional Groups. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18395-18404.	3.1	11

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109	Comprehensive Hg/Br reaction chemistry over Fe ₂ O ₃ surface during coal combustion. <i>Combustion and Flame</i> , 2018, 196, 210-222.	5.2	37
110	Theoretical investigation of sodium capture mechanism on kaolinite surfaces. <i>Fuel</i> , 2018, 234, 318-325.	6.4	29
111	Mercury removal by biomass-derived porous carbon: Experimental and theoretical insights into the effect of H ₂ S. <i>Chemical Engineering Journal</i> , 2018, 348, 409-415.	12.7	62
112	Computational Screening of Alkali, Alkaline Earth, and Transition Metals Alkoxide-Functionalized Metal-Organic Frameworks for CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19015-19024.	3.1	15
113	Insights into the effect of chlorine on arsenic release during MSW incineration: An on-line analysis and kinetic study. <i>Waste Management</i> , 2018, 75, 327-332.	7.4	18
114	High CO ₂ adsorption capacities in UiO type MOFs comprising heterocyclic ligand. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 25-31.	4.4	81
115	Heterogeneous reaction kinetics of mercury oxidation by HCl over Fe ₂ O ₃ surface. <i>Fuel Processing Technology</i> , 2017, 159, 266-271.	7.2	57
116	Experimental and theoretical studies of mercury oxidation over CeO ₂ WO ₃ /TiO ₂ catalysts in coal-fired flue gas. <i>Chemical Engineering Journal</i> , 2017, 317, 758-765.	12.7	82
117	Effects of water vapor and trace gas impurities in flue gas on CO ₂ capture in zeolitic imidazolate frameworks: The significant role of functional groups. <i>Fuel</i> , 2017, 200, 244-251.	6.4	54
118	Homogeneous and heterogeneous reaction mechanisms and kinetics of mercury oxidation in coal-fired flue gas with bromine addition. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4039-4049.	3.9	32
119	Density functional theory study on the heterogeneous reaction between Hg ₀ and HCl over spinel-type MnFe ₂ O ₄ . <i>Chemical Engineering Journal</i> , 2017, 308, 897-903.	12.7	81
120	Mechanistic studies of mercury adsorption and oxidation by oxygen over spinel-type MnFe ₂ O ₄ . <i>Journal of Hazardous Materials</i> , 2017, 321, 154-161.	12.4	184
121	Theoretical study of stability and reaction mechanism of CuO supported on ZrO ₂ during chemical looping combustion. <i>Applied Surface Science</i> , 2016, 367, 485-492.	6.1	55
122	Kinetic study of heterogeneous mercury oxidation by HCl on fly ash surface in coal-fired flue gas. <i>Combustion and Flame</i> , 2016, 168, 1-9.	5.2	72
123	On-line measurement and kinetic studies of sodium release during biomass gasification and pyrolysis. <i>Fuel</i> , 2016, 178, 202-208.	6.4	27
124	Mechanism of Heterogeneous Mercury Oxidation by HBr over V ₂ O ₅ /TiO ₂ Catalyst. <i>Environmental Science & Technology</i> , 2016, 50, 5398-5404.	10.0	109
125	Improving Carbon Dioxide Storage Capacity of Metal Organic Frameworks by Lithium Alkoxide Functionalization: A Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10311-10319.	3.1	57
126	Mechanism of CO ₂ adsorption on Mg/DOBDC with elevated CO ₂ loading. <i>Fuel</i> , 2016, 181, 340-346.	6.4	25

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127	Mechanism of mercury-iodine species binding on carbonaceous surface: Insight from density functional theory study. <i>Chemical Engineering Journal</i> , 2016, 306, 704-708.	12.7	32
128	Theoretical prediction the removal of mercury from flue gas by MOFs. <i>Fuel</i> , 2016, 184, 474-480.	6.4	24
129	Temporal measurements and kinetics of selenium release during coal combustion and gasification in a fluidized bed. <i>Journal of Hazardous Materials</i> , 2016, 310, 40-47.	12.4	32
130	Kinetics of Selenium and Cadmium Vaporization During Coal Combustion in a Fluidized Bed. , 2016, , 381-386.		0
131	Strong binding site molarity of MOFs and its effect on CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2015, 214, 242-245.	4.4	26
132	Insights into the mechanism of heterogeneous mercury oxidation by HCl over V ₂ O ₅ /TiO ₂ catalyst: Periodic density functional theory study. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2855-2865.	3.9	83
133	Oxidation mechanism of elemental mercury by HCl over MnO ₂ catalyst: Insights from first principles. <i>Chemical Engineering Journal</i> , 2015, 280, 354-362.	12.7	82
134	Heterogeneous Mercury Oxidation by HCl over CeO ₂ Catalyst: Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15047-15055.	3.1	68
135	O ₂ –CO ₂ Mixed Gas Production Using a Zr-Doped Cu-Based Oxygen Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9805-9812.	3.7	26
136	On-Line Analysis and Kinetic Behavior of Arsenic Release during Coal Combustion and Pyrolysis. <i>Environmental Science & Technology</i> , 2015, 49, 13716-13723.	10.0	72
137	Mercury oxidation mechanism on Pd(100) surface from first-principles calculations. <i>Chemical Engineering Journal</i> , 2014, 237, 344-351.	12.7	53
138	Theoretical study of mercury species adsorption mechanism on MnO ₂ (110) surface. <i>Chemical Engineering Journal</i> , 2014, 256, 93-100.	12.7	97
139	Effects of Water Vapor and Trace Gas Impurities in Flue Gas on CO ₂ /N ₂ Separation Using ZIF-68. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6744-6751.	3.1	61
140	Adsorption and diffusion of carbon dioxide on ZIF-68. <i>Chemical Engineering Science</i> , 2014, 118, 32-40.	3.8	59
141	Theoretical studies of mercury–bromine species adsorption mechanism on carbonaceous surface. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 2811-2819.	3.9	64
142	The adsorption mechanism of elemental mercury on CuO (110) surface. <i>Chemical Engineering Journal</i> , 2012, 200-202, 91-96.	12.7	97
143	Effect of Functionalized Linker on CO ₂ Binding in Zeolitic Imidazolate Frameworks: Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16985-16991.	3.1	61
144	Effect of SO ₂ on mercury binding on carbonaceous surfaces. <i>Chemical Engineering Journal</i> , 2012, 184, 163-167.	12.7	113

#	ARTICLE	IF	CITATIONS
145	Theoretical studies of CO ₂ adsorption mechanism on linkers of metal-organic frameworks. <i>Fuel</i> , 2012, 95, 521-527.	6.4	62
146	Polarization Effect of a Dielectric Membrane on the Ionic Current Rectification in a Conical Nanopore. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24951-24959.	3.1	29
147	Effects of chemical functional groups on elemental mercury adsorption on carbonaceous surfaces. <i>Journal of Hazardous Materials</i> , 2011, 186, 108-113.	12.4	150
148	Density functional theory study of mercury adsorption on V ₂ O ₅ (0 0 1) surface with implications for oxidation. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2771-2777.	3.9	56
149	Ionic current rectification in a conical nanofluidic field effect transistor. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 742-751.	7.8	44
150	Experimental study on fly ash capture mercury in flue gas. <i>Science China Technological Sciences</i> , 2010, 53, 976-983.	4.0	48
151	Study on mechanism of mercury oxidation by fly ash from coal combustion. <i>Science Bulletin</i> , 2010, 55, 163-167.	1.7	40
152	Diffusiophoresis of an Elongated Cylindrical Nanoparticle along the Axis of a Nanopore. <i>ChemPhysChem</i> , 2010, 11, 3281-3290.	2.1	47
153	Kinetics of heavy metal vaporization from coal in a fluidized bed by an inverse model. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010, 5, 266-273.	1.5	10
154	Field Effect Regulation of DNA Translocation through a Nanopore. <i>Analytical Chemistry</i> , 2010, 82, 8217-8225.	6.5	106
155	Theoretical Studies of Properties and Reactions Involving Mercury Species Present in Combustion Flue Gases. <i>Energy & Fuels</i> , 2010, 24, 117-122.	5.1	54
156	Ultrasensitive detection of mercury (II) ions using electrochemical surface plasmon resonance with magnetohydrodynamic convection. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 485-490.	9.4	44
157	Kinetic calculation and modeling of trace element reactions during combustion. <i>Powder Technology</i> , 2008, 180, 157-163.	4.2	39
158	Kinetic mechanism studies on reactions of mercury and oxidizing species in coal combustion. <i>Fuel</i> , 2005, 84, 1215-1220.	6.4	49
159	Determination of Kinetic Law for Toxic Metals Release during Thermal Treatment of Model Waste in a Fluid-Bed Reactor. <i>Environmental Science & Technology</i> , 2005, 39, 9331-9336.	10.0	43
160	Modeling of homogeneous mercury speciation using detailed chemical kinetics. <i>Combustion and Flame</i> , 2003, 132, 208-218.	5.2	131