Li-Long Jiang

List of Publications by Year
in descending order

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218 papers	7,586 citations	53660 45 h-index	88477 70 g-index
219 all docs	219 docs citations	219 times ranked	5509 citing authors

#	Article	IF	Citations
1	Geometrical-Site-Dependent Catalytic Activity of Ordered Mesoporous Co-Based Spinel for Benzene Oxidation: In Situ DRIFTS Study Coupled with Raman and XAFS Spectroscopy. ACS Catalysis, 2017, 7, 1626-1636.	5.5	281
2	Insight into the effect of morphology on catalytic performance of porous CeO2 nanocrystals for H2S selective oxidation. Applied Catalysis B: Environmental, 2019, 252, 98-110.	10.8	213
3	Activity and Stability Boosting of an Oxygenâ€Vacancyâ€Rich BiVO₄ Photoanode by NiFeâ€MOFs Thin Layer for Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 1433-1440.	7.2	205
4	Insights into the high performance of Mn-Co oxides derived from metal-organic frameworks for total toluene oxidation. Journal of Hazardous Materials, 2018, 349, 119-127.	6.5	191
5	Effect of alloy composition on catalytic performance and coke-resistance property of Ni-Cu/Mg(Al)O catalysts for dry reforming of methane. Applied Catalysis B: Environmental, 2018, 239, 324-333.	10.8	152
6	Thermodynamic and molecular insights into the absorption of H₂S, CO₂, and CH₄ in choline chloride plus urea mixtures. AIChE Journal, 2019, 65, e16574.	1.8	139
7	Enhanced catalytic activity over MIL-100(Fe) with coordinatively unsaturated Fe2+/Fe3+ sites for selective oxidation of H2S to sulfur. Chemical Engineering Journal, 2019, 374, 793-801.	6.6	114
8	Amino-Modified Fe-Terephthalate Metalâ€“Organic Framework as an Efficient Catalyst for the Selective Oxidation of H₂S. Inorganic Chemistry, 2018, 57, 10081-10089.	1.9	106
9	Morphology Effect of Ceria on the Catalytic Performances of Ru/CeO₂ Catalysts for Ammonia Synthesis. Industrial & Engineering Chemistry Research, 2018, 57, 9127-9135.	1.8	105
10	Polymeric carbon nitride nanomesh as an efficient and durable metal-free catalyst for oxidative desulfurization. Chemical Communications, 2018, 54, 2475-2478.	2.2	104
11	Promoted adsorption of CO₂ on amineâ€impregnated adsorbents by functionalized ionic liquids. AIChE Journal, 2018, 64, 3671-3680.	1.8	98
12	Ammonia Synthesis Activity of Alumina-Supported Ruthenium Catalyst Enhanced by Alumina Phase Transformation. ACS Catalysis, 2019, 9, 1635-1644.	5.5	96
13	Ru-Based Catalysts for Ammonia Decomposition: A Mini-Review. Energy & Fuels, 2021, 35, 11693-11706.	2.5	89
14	Isolated iron sites embedded in graphitic carbon nitride (g-C3N4) for efficient oxidative desulfurization. Applied Catalysis B: Environmental, 2020, 267, 118663.	10.8	86
15	Designing Low-Viscosity Deep Eutectic Solvents with Multiple Weak-Acidic Groups for Ammonia Separation. ACS Sustainable Chemistry and Engineering, 2021, 9, 7352-7360.	3.2	86
16	Carbon dioxide reforming of methane over Ni catalysts prepared from Niâ€“Mgâ€“Al layered double hydroxides: Influence of Ni loadings. Fuel, 2015, 162, 271-280.	3.4	84
17	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H₂S. ACS Sustainable Chemistry and Engineering, 2019, 7, 7609-7618.	3.2	84
18	Exfoliation of Graphitic Carbon Nitride for Enhanced Oxidative Desulfurization: A Facile and General Strategy. ACS Sustainable Chemistry and Engineering, 2019, 7, 4941-4950.	3.2	82

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19	Catalytic Activity and Stability over Nanorod-Like Ordered Mesoporous Phosphorus-Doped Alumina Supported Palladium Catalysts for Methane Combustion. ACS Catalysis, 2018, 8, 11016-11028.	5.5	78
20	Highly Efficient Porous Fe_xCe_{1â€“x}O_{2â^Î´} with Three-Dimensional Hierarchical Nanoflower Morphology for H₂S-Selective Oxidation. ACS Catalysis, 2020, 10, 3968-3983.	5.5	78
21	Construction of Fe-doped TiO2â^'x ultrathin nanosheets with rich oxygen vacancies for highly efficient oxidation of H2S. Chemical Engineering Journal, 2022, 430, 132917.	6.6	77
22	Low temperature desulfurization on Co-doped Î±-FeOOH: Tailoring the phase composition and creating the defects. Chemical Engineering Journal, 2016, 306, 124-130.	6.6	74
23	Hierarchically porous Î³-Al2O3 nanosheets: Facile template-free preparation and reaction mechanism for H2S selective oxidation. Chemical Engineering Journal, 2018, 346, 238-248.	6.6	74
24	Fe-doped Î³-Al₂O₃ porous hollow microspheres for enhanced oxidative desulfurization: facile fabrication and reaction mechanism. Green Chemistry, 2018, 20, 4645-4654.	4.6	74
25	MnO2 nanoparticles encapsuled in spheres of Ce-Mn solid solution: Efficient catalyst and good water tolerance for low-temperature toluene oxidation. Applied Surface Science, 2020, 504, 144481.	3.1	73
26	Insight into dynamic and steady-state active sites for nitrogen activation to ammonia by cobalt-based catalyst. Nature Communications, 2020, 11, 653.	5.8	72
27	Effects of anaerobic SO2 treatment on nano-CeO2 of different morphologies for selective catalytic reduction of NOx with NH3. Chemical Engineering Journal, 2020, 382, 122910.	6.6	68
28	Challenges and Opportunities of Ru-Based Catalysts toward the Synthesis and Utilization of Ammonia. ACS Catalysis, 2022, 12, 3938-3954.	5.5	67
29	Structureâ€“Activity Relationships of AMn₂O₄ (A = Cu and Co) Spinels in Selective Catalytic Reduction of NO_x: Experimental and Theoretical Study. Journal of Physical Chemistry C, 2017, 121, 3339-3349.	1.5	62
30	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and H₂S. ACS Applied Materials & Interfaces, 2019, 11, 29950-29959.	4.0	61
31	Enhanced Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalysts Induced by CO Activation. ACS Catalysis, 2021, 11, 1331-1339.	5.5	61
32	Effect of ceria morphology on the catalytic activity of Co/CeO2 catalyst for ammonia synthesis. Catalysis Communications, 2017, 101, 15-19.	1.6	60
33	Promoting effect of Cu-doping on catalytic activity and SO2 resistance of porous CeO2 nanorods for H2S selective oxidation. Journal of Catalysis, 2020, 389, 382-399.	3.1	59
34	Size sensitivity of supported Ru catalysts for ammonia synthesis: From nanoparticles to subnanometric clusters and atomic clusters. CheM, 2022, 8, 749-768.	5.8	59
35	Total oxidation of benzene over ACo 2 O 4 (A = Cu, Ni and Mn) catalysts: In situ DRIFTS account for understanding the reaction mechanism. Applied Surface Science, 2017, 426, 1198-1205.	3.1	58
36	Synthesis of Coâ€“Mn oxides with double-shelled nanocages for low-temperature toluene combustion. Catalysis Science and Technology, 2018, 8, 4494-4502.	2.1	58

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37	Structural requirements of manganese oxides for methane oxidation: XAS spectroscopy and transition-state studies. Applied Catalysis B: Environmental, 2018, 229, 52-62.	10.8	57
38	Efficient catalytic elimination of COS and H2S by developing ordered mesoporous carbons with versatile base N sites via a calcination induced self-assembly route. Chemical Engineering Science, 2020, 221, 115714.	1.9	55
39	Highly efficient and selective separation of ammonia by deep eutectic solvents through cooperative acid-base and strong hydrogen-bond interaction. Journal of Molecular Liquids, 2021, 337, 116463.	2.3	55
40	Ni/Al2O3-ZrO2 catalyst for CO2 methanation: The role of Î³-(Al, Zr)2O3 formation. Applied Surface Science, 2018, 459, 74-79.	3.1	52
41	MOF-derived porous Fe₂O₃ with controllable shapes and improved catalytic activities in H₂S selective oxidation. CrystEngComm, 2018, 20, 3449-3454.	1.3	51
42	Porous nanosheets of carbon-conjugated graphitic carbon nitride for the oxidation of H2S to elemental sulfur. Carbon, 2019, 155, 204-214.	5.4	51
43	Selective catalytic tailoring of the H unit in herbaceous lignin for methyl p-hydroxycinnamate production over metal-based ionic liquids. Green Chemistry, 2018, 20, 3743-3752.	4.6	50
44	Spatial Confinement of Electron-Rich Ni Nanoparticles for Efficient Ammonia Decomposition to Hydrogen Production. ACS Catalysis, 2021, 11, 10345-10350.	5.5	49
45	Atomically Dispersed Ru Catalyst for Low-Temperature Nitrogen Activation to Ammonia via an Associative Mechanism. ACS Catalysis, 2020, 10, 9504-9514.	5.5	47
46	Interfacial Engineering Promoting Electrosynthesis of Ammonia over Mo/Phosphotungstic Acid with High Performance. Advanced Functional Materials, 2021, 31, 2009151.	7.8	47
47	Engineering of crystal phase over porous MnO2 with 3D morphology for highly efficient elimination of H2S. Journal of Hazardous Materials, 2021, 411, 125180.	6.5	47
48	Layered double hydroxides as precursors of Cu catalysts for hydrogen production by water-gas shift reaction. International Journal of Hydrogen Energy, 2015, 40, 10016-10025.	3.8	46
49	Cu/CeO₂ Catalyst for Waterâ€Gas Shift Reaction: Effect of CeO₂ Pretreatment. ChemPhysChem, 2018, 19, 1448-1455.	1.0	46
50	Techno-economic analysis and comprehensive optimization of anon-sitehydrogen refuelling station system using ammonia: hybrid hydrogen purification with both high H₂purity and high recovery. Sustainable Energy and Fuels, 2020, 4, 3006-3017.	2.5	46
51	Construction of cross-linked Î´-MnO2 with ultrathin structure for the oxidation of H2S: Structure-activity relationship and kinetics study. Applied Catalysis B: Environmental, 2021, 297, 120402.	10.8	46
52	Illuminate the active sites of Î³-FeOOH for low-temperature desulfurization. Applied Surface Science, 2017, 425, 212-219.	3.1	44
53	Low-Temperature H₂S Removal from Gas Streams over Î³-FeOOH, Î³-Fe₂O₃, and Î±-Fe₂O₃: Effects of the Hydroxyl Group, Defect, and Specific Surface Area. Industrial & Engineering Chemistry Research, 2019, 58, 19353-19360.	1.8	44
54	<scp>Chelationâ€activated multipleâ€site</scp> reversible chemical absorption of ammonia in ionic liquids. AIChE Journal, 2022, 68, .	1.8	44

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55	Rational designed Co@N-doped carbon catalyst for high-efficient H2S selective oxidation by regulating electronic structures. Chemical Engineering Journal, 2020, 401, 126038.	6.6	43
56	Cobalt-aluminum mixed oxides prepared from layered double hydroxides for the total oxidation of benzene. Applied Catalysis A: General, 2015, 507, 130-138.	2.2	42
57	Synthesis of Mg-Doped Ordered Mesoporous Pdâ€“Al₂O₃ with Different Basicity for CO, NO, and HC Elimination. Industrial & Engineering Chemistry Research, 2017, 56, 1687-1695.	1.8	41
58	Mechanochemically synthesized MgAl layered double hydroxide nanosheets for efficient catalytic removal of carbonyl sulfide and H₂S. Chemical Communications, 2019, 55, 9375-9378.	2.2	41
59	Highly Active and Sulfurâ€Resistant Feâ€“N₄ Sites in Porous Carbon Nitride for the Oxidation of H₂S into Elemental Sulfur. Small, 2020, 16, e2003904.	5.2	41
60	Hydrotalcite-derived Co/Mg(Al)O as a stable and coke-resistant catalyst for low-temperature carbon dioxide reforming of methane. Applied Catalysis A: General, 2018, 552, 21-29.	2.2	40
61	Influence of Ru Substitution on the Properties of LaCoO₃ Catalysts for Ammonia Synthesis: XAFS and XPS Studies. Industrial & Engineering Chemistry Research, 2018, 57, 17375-17383.	1.8	40
62	Enhanced ammonia synthesis performance of ceria-supported Ru catalysts via introduction of titanium. Chemical Communications, 2020, 56, 1141-1144.	2.2	40
63	Enhanced Selective H₂S Oxidation Performance on Mo₂C-Modified g-C₃N₄. ACS Sustainable Chemistry and Engineering, 2019, 7, 16257-16263.	3.2	39
64	Synthesis and application of highly dispersed ordered mesoporous silicon-doped Pd-alumina catalyst with high thermal stability. Chemical Engineering Journal, 2016, 297, 148-157.	6.6	38
65	A solvent-free, one-step synthesis of sulfonic acid group-functionalized mesoporous organosilica with ultra-high acid concentrations and excellent catalytic activities. Green Chemistry, 2018, 20, 1020-1030.	4.6	38
66	Deactivation study of carbon-supported ruthenium catalyst with potassium promoter. Applied Catalysis A: General, 2017, 541, 1-7.	2.2	37
67	Facile fabrication of shape-controlled Co_xMn_yO_{Î²} nanocatalysts for benzene oxidation at low temperatures. Chemical Communications, 2018, 54, 2154-2157.	2.2	37
68	Coupling ammonia catalytic decomposition and electrochemical oxidation for solid oxide fuel cells: A model based on elementary reaction kinetics. Journal of Power Sources, 2019, 423, 125-136.	4.0	37
69	Characterization and Catalytic Performance of Cu/ZnO/Al₂O₃ Waterâ€“Gas Shift Catalysts Derived from Cuâ€“Znâ€“Al Layered Double Hydroxides. Industrial & Engineering Chemistry Research, 2017, 56, 3175-3183.	1.8	36
70	Strong metalâ€“support interactions of Co-based catalysts facilitated by dopamine for highly efficient ammonia synthesis: in situ XPS and XAFS spectroscopy coupled with TPD studies. Chemical Communications, 2019, 55, 474-477.	2.2	36
71	Morphology evolution of acetic acid-modulated MIL-53(Fe) for efficient selective oxidation of H2S. Chinese Journal of Catalysis, 2021, 42, 279-287.	6.9	36
72	Improving the ammonia synthesis activity of Ru/CeO2 through enhancement of the metalâ€“support interaction. Journal of Energy Chemistry, 2021, 60, 403-409.	7.1	36

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73	Geometric structure distribution and oxidation state demand of cations in spinel NixFe1-xCo2O4 composite cathodes for solid oxide fuel cells. Chemical Engineering Journal, 2021, 425, 131822.	6.6	36
74	Facile Strategy to Extend Stability of Simple Component-Alumina-Supported Palladium Catalysts for Efficient Methane Combustion. ACS Applied Materials & Interfaces, 2020, 12, 56095-56107.	4.0	36
75	An Ammoniaâ€“Hydrogen Energy Roadmap for Carbon Neutrality: Opportunity and Challenges in China. Engineering, 2021, 7, 1688-1691.	3.2	36
76	Operando spectroscopic and isotopic-label-directed observation of LaN-promoted Ru/ZrH2 catalyst for ammonia synthesis via associative and chemical looping route. Journal of Catalysis, 2020, 389, 218-228.	3.1	35
77	Highly efficient ammonia synthesis at low temperature over a Ruâ€“Co catalyst with dual atomically dispersed active centers. Chemical Science, 2021, 12, 7125-7137.	3.7	35
78	Synthesis of a Highly Stable Pd@CeO₂ Catalyst for Methane Combustion with the Synergistic Effect of Urea and Citric Acid. ACS Omega, 2018, 3, 16769-16776.	1.6	34
79	Iron-Based Metalâ€“Organic Frameworks as Platform for H₂S Selective Conversion: Structure-Dependent Desulfurization Activity. Inorganic Chemistry, 2020, 59, 4483-4492.	1.9	34
80	Magnesium-aluminum mixed metal oxide supported copper nanoparticles as catalysts for water-gas shift reaction. Fuel, 2016, 184, 382-389.	3.4	33
81	Microstructural property regulation and performance in methane combustion reaction of ordered mesoporous alumina supported palladium-cobalt bimetallic catalysts. Applied Catalysis B: Environmental, 2020, 263, 118269.	10.8	33
82	Insights into the electrochemical degradation of phenolic lignin model compounds in a protic ionic liquidâ€“water system. Green Chemistry, 2021, 23, 1665-1677.	4.6	33
83	Pyridine-Functionalized and Metallized Meso-Macroporous Polymers for Highly Selective Capture and Catalytic Conversion of CO₂ into Cyclic Carbonates. Industrial & Engineering Chemistry Research, 2017, 56, 15008-15016.	1.8	32
84	Carbon support surface effects in the catalytic performance of Ba-promoted Ru catalyst for ammonia synthesis. Catalysis Today, 2018, 316, 230-236.	2.2	32
85	Highly Efficient Transfer Hydrogenation of Levulinate Esters to Î³-Valerolactone over Basic Zirconium Carbonate. Industrial & Engineering Chemistry Research, 2018, 57, 10126-10136.	1.8	31
86	A green and efficient hydration of alkynes catalyzed by hierarchically porous poly(ionic liquid)s solid strong acids. Applied Catalysis A: General, 2018, 564, 56-63.	2.2	31
87	Enhancing the activity of MoS2/SiO2-Al2O3 bifunctional catalysts for suspended-bed hydrocracking of heavy oils by doping with Zr atoms. Chinese Journal of Chemical Engineering, 2021, 39, 126-134.	1.7	31
88	Aqueous and Templateâ€Free Synthesis of Mesoâ€“Macroporous Polymers for Highly Selective Capture and Conversion of Carbon Dioxide. ChemSusChem, 2017, 10, 4144-4149.	3.6	30
89	Niâ€“Fe/Mg(Al)O alloy catalyst for carbon dioxide reforming of methane: Influence of reduction temperature and Niâ€“Fe alloying on coking. International Journal of Hydrogen Energy, 2020, 45, 33574-33585.	3.8	30
90	Studies on SO₂ Tolerance and Regeneration over Perovskite-Type LaCo_{1â€“x}Pt_xO₃ in NO_x Storage and Reduction. Journal of Physical Chemistry C, 2014, 118, 13743-13751.	1.5	29

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91	Effect of Ceria Precursor on the Physicochemical and Catalytic Properties of Mnâ€“W/CeO₂ Nanocatalysts for NH₃ SCR at Low Temperature. Industrial & Engineering Chemistry Research, 2017, 56, 14980-14994.	1.8	29
92	Facile fabrication of Ce-decorated composition-tunable Ce@ZnCo₂O₄ coreâ€“shell microspheres for enhanced catalytic propane combustion. Nanoscale, 2019, 11, 4794-4802.	2.8	29
93	Ru surface density effect on ammonia synthesis activity and hydrogen poisoning of ceria-supported Ru catalysts. Chinese Journal of Catalysis, 2021, 42, 1712-1723.	6.9	29
94	Tuning the growth of Cu-MOFs for efficient catalytic hydrolysis of carbonyl sulfide. Chinese Journal of Catalysis, 2017, 38, 1373-1381.	6.9	28
95	Construction of Spatial Effect from Atomically Dispersed Co Anchoring on Subnanometer Ru Cluster for Enhanced N₂-to-NH₃ Conversion. ACS Catalysis, 2021, 11, 4430-4440.	5.5	28
96	Rapid electrochemical synthesis of HKUST-1 on indium tin oxide. RSC Advances, 2017, 7, 9316-9320.	1.7	27
97	Role of Citric Acid in Preparing Highly Active CoMo/Al₂O₃ Catalyst: From Aqueous Impregnation Solution to Active Site Formation. Industrial & Engineering Chemistry Research, 2017, 56, 14172-14181.	1.8	27
98	Sacrificial Adsorbate Strategy Achieved Strong Metalâ€“Support Interaction of Stable Cu Nanocatalysts. ACS Applied Energy Materials, 2018, 1, 1408-1414.	2.5	27
99	Influence of reduction temperature on Ni particle size and catalytic performance of Ni/Mg(Al)O catalyst for CO2 reforming of CH4. International Journal of Hydrogen Energy, 2020, 45, 2794-2807.	3.8	27
100	Graphitic Carbon Nitride Functionalized with Polyethylenimine for Highly Effective Capture of Carbon Dioxide. Industrial & Engineering Chemistry Research, 2018, 57, 11031-11038.	1.8	26
101	Site-Oriented Design of High-Performance Halloysite-Supported Palladium Catalysts for Methane Combustion. Industrial & Engineering Chemistry Research, 2020, 59, 5636-5647.	1.8	26
102	Site-oriented design of spinel MgxNiMn2-xO4-Î´ as cathode material of intermediate-temperature direct ammonia solid oxide fuel cell. Journal of Power Sources, 2021, 503, 230020.	4.0	26
103	Biomass-Derived Hierarchically Porous Carbons Abundantly Decorated with Nitrogen Sites for Efficient CO₂ Catalytic Utilization. Industrial & Engineering Chemistry Research, 2019, 58, 7980-7988.	1.8	25
104	Characterization and catalytic behavior of hydrotalcite-derived Niâ€“Al catalysts for methane decomposition. International Journal of Hydrogen Energy, 2020, 45, 17299-17310.	3.8	25
105	Efficient catalytic removal of COS and H2S over graphitized 2D micro-meso-macroporous carbons endowed with ample nitrogen sites synthesized via mechanochemical carbonization. Green Energy and Environment, 2022, 7, 983-995.	4.7	25
106	Inducing the Metalâ€“Support Interaction and Enhancing the Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalyst via N₂H₄ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 4885-4893.	3.2	24
107	Preparation of supported Co catalysts from Coâ€“Mgâ€“Al layered double hydroxides for carbon dioxide reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 5063-5071.	3.8	23
108	Pyrochlore Pr2Zr2-xMxO7+Î´ (Mâ€¯=â€¯Al, Ga, In) solid-state electrolytes: Defect-mediated oxygen hopping pathways and enhanced NO2 sensing properties. Sensors and Actuators B: Chemical, 2018, 270, 130-139.	4.0	23

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109	Efficient ammonia synthesis over a coreâ€“shell Ru/CeO₂catalyst with a tunable CeO₂size: DFT calculations and XAS spectroscopy studies. Inorganic Chemistry Frontiers, 2019, 6, 396-406.	3.0	23
110	Facile construction of ultrastable alumina anchored palladium catalysts via a designed one pot strategy for enhanced methane oxidation. Catalysis Science and Technology, 2020, 10, 4612-4623.	2.1	23
111	Porous Î±-Fe2O3/SnO2 nanoflower with enhanced sulfur selectivity and stability for H2S selective oxidation. Chinese Chemical Letters, 2021, 32, 2143-2150.	4.8	23
112	Review on catalytic roles of rare earth elements in ammonia synthesis: Development and perspective. Journal of Rare Earths, 2022, 40, 1-10.	2.5	23
113	Tunable ionic liquids as oil-soluble precursors of dispersed catalysts for suspended-bed hydrocracking of heavy residues. Fuel, 2022, 313, 122664.	3.4	23
114	Facile synthesis of Mnâ€“Fe/CeO₂ nanotubes by gradient electrospinning and their excellent catalytic performance for propane and methane oxidation. Dalton Transactions, 2017, 46, 16967-16972.	1.6	22
115	Enhanced Methane Oxidation over Co₃O₄â€“In₂O₃-x Composite Oxide Nanoparticles via Controllable Substitution of Co³⁺/Co²⁺ by In³⁺ Ions. ACS Applied Nano Materials, 2020, 3, 9470-9479.	2.4	22
116	Rational design of highly H2O- and CO2-tolerant hydroxyapatite-supported Pd catalyst for low-temperature methane combustion. Chemical Engineering Journal, 2020, 396, 125225.	6.6	22
117	Effects of Using Carbon-Coated Alumina as Support for Ba-Promoted Ru Catalyst in Ammonia Synthesis. Industrial & Engineering Chemistry Research, 2019, 58, 10285-10295.	1.8	21
118	A novel solar system integrating concentrating photovoltaic thermal collectors and variable effect absorption chiller for flexible co-generation of electricity and cooling. Energy Conversion and Management, 2020, 206, 112506.	4.4	21
119	Hierarchical N-Doped Carbons Endowed with Structural Base Sites toward Highly Selective Adsorption and Catalytic Oxidation of H₂S. Industrial & Engineering Chemistry Research, 2021, 60, 2101-2111.	1.8	21
120	Sacrificial Sucrose Strategy Achieved Enhancement of Ammonia Synthesis Activity over a Ceria-Supported Ru Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 8962-8969.	3.2	21
121	Highly PoisonâEResistant SingleâEAtom Coâ€“N₄ Active Sites with Superior Operational Stability over 460Âh for H₂S Catalytic Oxidation. Small, 2021, 17, e2104939.	5.2	21
122	Sulfur-resistant methane combustion invoked by surface property regulation on palladium-based catalysts. Applied Surface Science, 2022, 587, 152835.	3.1	21
123	Carboxylic functionalized mesoporous polymers for fast, highly efficient, selective and reversible adsorption of ammonia. Chemical Engineering Journal, 2022, 448, 137640.	6.6	21
124	Unraveling the size-dependent effect of Ru-based catalysts on Ammonia synthesis at mild conditions. Journal of Catalysis, 2021, 404, 501-511.	3.1	20
125	Highly-integrated and Cost-efficient Ammonia-fueled fuel cell system for efficient power generation: A comprehensive system optimization and Techno-Economic analysis. Energy Conversion and Management, 2022, 251, 114917.	4.4	20
126	Nickelâ€™cobalt bimetallic catalysts prepared from hydrotalcite-like compounds for dry reforming of methane. International Journal of Hydrogen Energy, 2022, 47, 24358-24373.	3.8	20

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127	Sulfur resistant WGS catalyst for hydrogen production based on CoMo supported by Nb modified MgAl mixed oxide. International Journal of Hydrogen Energy, 2017, 42, 29935-29943.	3.8	19
128	Molecular-level understanding of reaction path optimization as a function of shape concerning the metalâ€“support interaction effect of Co/CeO₂ on water-gas shift catalysis. Catalysis Science and Technology, 2019, 9, 4928-4937.	2.1	19
129	Cu/Fe3O4 catalyst for water gas shift reaction: Insight into the effect of Fe2+ and Fe3+ distribution in Fe3O4. International Journal of Hydrogen Energy, 2020, 45, 8456-8465.	3.8	19
130	Catalytic methane oxidation performance over Pd/Î³-Al2O3 catalyst optimized by the synergy of phosphorus and MOx (MÂ=ÂLa, Ba and Zr). Fuel, 2021, 299, 120933.	3.4	19
131	Optimized coupling of ammonia decomposition and electrochemical oxidation in a tubular direct ammonia solid oxide fuel cell for high-efficiency power generation. Applied Energy, 2022, 307, 118158.	5.1	19
132	Trialkylmethylammonium molybdate ionic liquids as novel oil-soluble precursors of dispersed metal catalysts for slurry-phase hydrocracking of heavy oils. Chemical Engineering Science, 2022, 253, 117516.	1.9	19
133	Integrating Dissociative and Associative Routes for Efficient Ammonia Synthesis over a TiCN-Promoted Ru-Based Catalyst. ACS Catalysis, 2022, 12, 2651-2660.	5.5	18
134	Size-dependent activity of supported Ru catalysts for ammonia synthesis at mild conditions. Journal of Catalysis, 2022, 408, 98-108.	3.1	18
135	Electronic metal-support interaction enhanced ammonia decomposition efficiency of perovskite oxide supported ruthenium. Chemical Engineering Science, 2022, 257, 117719.	1.9	18
136	Pressurized tubular solid oxide H₂O/CO₂ coelectrolysis cell for direct powerâ€toâ€methane. AICHE Journal, 2020, 66, e16896.	1.8	17
137	Activity enhancement of ceria-supported Co-Mo bimetallic catalysts by tuning reducibility and metal enrichment. Journal of Catalysis, 2022, 406, 231-240.	3.1	17
138	Oxygen vacancy defects engineering on Cu-doped Co3O4 for promoting effective COS hydrolysis. Green Energy and Environment, 2023, 8, 831-841.	4.7	17
139	Effects of Doping Rare Earth Elements (Y, La, and Ce) on Catalytic Performances of CoMo/MgAlM for Water Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2018, 57, 833-844.	1.8	16
140	Pyrochlore Pr2Zr1.95In0.05O7+Î´ oxygen conductors: Defect-induced electron transport and enhanced NO2 sensing performances. Electrochimica Acta, 2019, 293, 338-347.	2.6	16
141	Gas sensing properties of amperometric NH3 sensors based on Sm2Zr2O7 solid electrolyte and SrM2O4 (Mâ€¯=â€¯Sm, La, Gd, Y) sensing electrodes. Sensors and Actuators B: Chemical, 2020, 303, 127220.	4.0	16
142	A Cationic Polymerization Strategy to Design Sulfonated Microâ€“Mesoporous Polymers as Efficient Adsorbents for Ammonia Capture and Separation. Macromolecules, 2021, 54, 7010-7020.	2.2	16
143	Solvent-free molten co-assembly of ordered mesoporous carbon for efficiently supported adsorption and separation of SO₂. Journal of Materials Chemistry A, 2022, 10, 8817-8825.	5.2	16
144	CoMo sulfur-tolerant water-gas shift catalyst derived from an Anderson-type heteropolyanion precursor. Catalysis Communications, 2016, 86, 19-22.	1.6	15

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145	Acid-Modified Natural Bauxite Mineral as a Cost-Effective and High-Efficient Catalyst Support for Slurry-Phase Hydrocracking of High-Temperature Coal Tar. Energy & Fuels, 2016, 30, 9203-9209.	2.5	15
146	MgAl-LDO mixed oxide derived from layered double hydroxide: A potential support for CoMo sulfur-resistant waterâ€“gas shift catalyst. Catalysis Communications, 2016, 78, 44-47.	1.6	15
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