

Li-Long Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200
papers

3,884
citations

34
h-index

50
g-index

219
ext. papers

5,653
ext. citations

7.5
avg, IF

6.15
L-index

#	Paper	IF	Citations
200	Activity enhancement of ceria-supported Co-Mo bimetallic catalysts by tuning reducibility and metal enrichment. <i>Journal of Catalysis</i> , 2022 , 406, 231-240	7.3	1
199	Studies of a Highly Active Cobalt Atomic Cluster Catalyst for Ammonia Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1951-1960	8.3	1
198	Tuning defect nonequilibrium of brownmillerite Sr _{1+x} Y _{2-x} O _{4+δ} for rich-oxygen-vacancy direct ammonia solid oxide fuel cells cathode. <i>Journal of Power Sources</i> , 2022 , 524, 231078	8.9	0
197	Titanium modified Ru/CeO ₂ catalysts for ammonia synthesis. <i>Chemical Engineering Science</i> , 2022 , 251, 117434	4.4	2
196	Hydrotalcite-derived aluminum-doped cobalt oxides for catalytic benzene combustion: Effect of calcination atmosphere. <i>Molecular Catalysis</i> , 2022 , 520, 112160	3.3	1
195	Highly-integrated and Cost-efficient Ammonia-fueled fuel cell system for efficient power generation: A comprehensive system optimization and Techno-Economic analysis. <i>Energy Conversion and Management</i> , 2022 , 251, 114917	10.6	1
194	Improving conversion of methyl palmitate to diesel-like fuel through catalytic deoxygenation with B ₂ O ₃ -modified ZrO ₂ . <i>Fuel Processing Technology</i> , 2022 , 226, 107091	7.2	3
193	Dual-template approach to designing nitrogen functionalized, hierarchical porous carbons for efficiently selective capture and separation of SO ₂ . <i>Separation and Purification Technology</i> , 2022 , 284, 120272	8.3	0
192	Densities and viscosities of, and solubilities of acidic gases (SO ₂ and H ₂ S) in natural deep eutectic solvents. <i>Journal of Chemical Thermodynamics</i> , 2022 , 167, 106713	2.9	3
191	Construction of Fe-doped TiO ₂ ultrathin nanosheets with rich oxygen vacancies for highly efficient oxidation of H ₂ S. <i>Chemical Engineering Journal</i> , 2022 , 430, 132917	14.7	12
190	Challenges and Opportunities of Ru-Based Catalysts toward the Synthesis and Utilization of Ammonia. <i>ACS Catalysis</i> , 2022 , 12, 3938-3954	13.1	3
189	Size-dependent activity of supported Ru catalysts for ammonia synthesis at mild conditions. <i>Journal of Catalysis</i> , 2022 , 408, 98-108	7.3	3
188	Enhanced catalytic performance of the carbon-supported Ru ammonia synthesis catalyst by an introduction of oxygen functional groups via gas-phase oxidation. <i>Journal of Catalysis</i> , 2022 , 409, 78-86	7.3	1
187	Trialkylmethylammonium molybdate ionic liquids as novel oil-soluble precursors of dispersed metal catalysts for slurry-phase hydrocracking of heavy oils. <i>Chemical Engineering Science</i> , 2022 , 253, 117516	4.4	1
186	Sulfur-resistant methane combustion invoked by surface property regulation on palladium-based catalysts. <i>Applied Surface Science</i> , 2022 , 587, 152835	6.7	2
185	Sustainable synthesis of ordered mesoporous materials without additional solvents. <i>Journal of Colloid and Interface Science</i> , 2022 , 619, 116-122	9.3	0
184	Enabling High Efficiency and Rapid Regeneration of FeOOH@Fe-EDTA for Slurry Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 249-258	3.9	0

183	Electronic metal-support interaction enhanced ammonia decomposition efficiency of perovskite oxide supported ruthenium. <i>Chemical Engineering Science</i> , 2022 , 117719	4.4	0
182	Controlled preparation of NiCu alloy catalyst via hydrotalcite-like precursor and its enhanced catalytic performance for methane decomposition. <i>Fuel Processing Technology</i> , 2022 , 233, 107271	7.2	1
181	Oxygen vacancy defects engineering on Cu-doped Co ₃ O ₄ for promoting effective COS hydrolysis. <i>Green Energy and Environment</i> , 2021 ,	5.7	2
180	Tunable ionic liquids as oil-soluble precursors of dispersed catalysts for suspended-bed hydrocracking of heavy residues. <i>Fuel</i> , 2021 , 313, 122664	7.1	4
179	Optimized coupling of ammonia decomposition and electrochemical oxidation in a tubular direct ammonia solid oxide fuel cell for high-efficiency power generation. <i>Applied Energy</i> , 2021 , 118158	10.7	1
178	An ammonia-hydrogen energy roadmap for carbon neutrality: Opportunity and challenges in china. <i>Engineering</i> , 2021 ,	9.7	4
177	Ru alloying with La or Y for ammonia synthesis via integrated dissociative and associative mechanism with superior operational stability. <i>Chemical Engineering Science</i> , 2021 , 117255	4.4	1
176	Size sensitivity of supported Ru catalysts for ammonia synthesis: From nanoparticles to subnanometric clusters and atomic clusters. <i>Chem</i> , 2021 ,	16.2	4
175	One-pot production of diethyl maleate via catalytic conversion of raw lignocellulosic biomass. <i>Green Chemistry</i> , 2021 , 23, 10116-10122	10	1
174	Tuning N ₂ activation pathway over Ru/Co sub-nanometer alloy for efficient ammonia synthesis. <i>Journal of Catalysis</i> , 2021 , 404, 440-440	7.3	2
173	Highly Poison-Resistant Single-Atom Co-N Active Sites with Superior Operational Stability over 460h for H ₂ S Catalytic Oxidation. <i>Small</i> , 2021 , 17, e2104939	11	2
172	Unraveling the Size-Dependent Effect of Ru-based Catalysts on Ammonia Synthesis at Mild Conditions. <i>Journal of Catalysis</i> , 2021 , 404, 501-501	7.3	5
171	Slurry-Phase Hydrocracking of a Decalin-Phenanthrene Mixture by MoS ₂ /SiO ₂ -rO ₂ Bifunctional Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 230-242	3.9	6
170	Inducing the Metal-Support Interaction and Enhancing the Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalyst via N ₂ H ₄ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4885-4893	8.3	11
169	Construction of Spatial Effect from Atomically Dispersed Co Anchoring on Subnanometer Ru Cluster for Enhanced N ₂ -to-NH ₃ Conversion. <i>ACS Catalysis</i> , 2021 , 11, 4430-4440	13.1	9
168	Electronic Regulation of Bromophenyl Grafted Metal-Free Carbon Nitride Catalysts for Enhanced Utilization of H ₂ S. <i>ChemCatChem</i> , 2021 , 13, 2386-2392	5.2	3
167	Interfacial Engineering Promoting Electrosynthesis of Ammonia over Mo/Phosphotungstic Acid with High Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2009151	15.6	9
166	Enhancing the activity of MoS ₂ /SiO ₂ -Al ₂ O ₃ bifunctional catalysts for suspended-bed hydrocracking of heavy oils by doping with Zr atoms. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 39, 126-126	3.2	18

165	Designing Low-Viscosity Deep Eutectic Solvents with Multiple Weak-Acidic Groups for Ammonia Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7352-7360	8.3	35
164	Sacrificial Sucrose Strategy Achieved Enhancement of Ammonia Synthesis Activity over a Ceria-Supported Ru Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8962-8969	8.3	5
163	Engineering of crystal phase over porous MnO with 3D morphology for highly efficient elimination of HS. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125180	12.8	19
162	A Cationic Polymerization Strategy to Design Sulfonated MicroMesoporous Polymers as Efficient Adsorbents for Ammonia Capture and Separation. <i>Macromolecules</i> , 2021 , 54, 7010-7020	5.5	1
161	Exploring N-Containing Compound Catalyst for H ₂ S Selective Oxidation: Case Study of TaON and Ta ₃ N ₅ . <i>Catalysis Letters</i> , 2021 , 151, 1728-1737	2.8	2
160	Morphology evolution of acetic acid-modulated MIL-53(Fe) for efficient selective oxidation of H ₂ S. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 279-287	11.3	5
159	Activity and Stability Boosting of an Oxygen-Vacancy-Rich BiVO Photoanode by NiFe-MOFs Thin Layer for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1433-1440	16.4	79
158	Porous Fe ₂ O ₃ /SnO ₂ nanoflower with enhanced sulfur selectivity and stability for H ₂ S selective oxidation. <i>Chinese Chemical Letters</i> , 2021 , 32, 2143-2150	8.1	7
157	Influence of alloying on the catalytic performance of NiAl catalyst prepared from hydrotalcite-like compounds for methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3833-3846	6.7	3
156	Construction and evolution of active palladium species on phase-regulated reducible TiO ₂ for methane combustion. <i>Catalysis Science and Technology</i> , 2021 , 11, 836-845	5.5	3
155	Target-oriented confinement of Ru-Co nanoparticles inside N-doped carbon spheres via a benzoic acid guided process for high-efficient low-temperature ammonia synthesis. <i>Journal of Energy Chemistry</i> , 2021 , 57, 140-146	12	1
154	Highly efficient ammonia synthesis at low temperature over a Ru-Co catalyst with dual atomically dispersed active centers. <i>Chemical Science</i> , 2021 , 12, 7125-7137	9.4	12
153	N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1529-1539	8.3	7
152	Hierarchical N-Doped Carbons Endowed with Structural Base Sites toward Highly Selective Adsorption and Catalytic Oxidation of H ₂ S. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 2101-2111	3.9	7
151	Construction of a Pd(PdO)/CoO@SiO core-shell structure for efficient low-temperature methane combustion. <i>Nanoscale</i> , 2021 , 13, 5026-5032	7.7	4
150	Insights into the electrochemical degradation of phenolic lignin model compounds in a protic ionic liquid/water system. <i>Green Chemistry</i> , 2021 , 23, 1665-1677	10	6
149	Hydrogen Production via Water-Gas Shift Reaction by Cu/SiO ₂ Catalyst: A Case Study of CeO ₂ Doping. <i>Energy & Fuels</i> , 2021 , 35, 3521-3528	4.1	3
148	Review on catalytic roles of rare earth elements in ammonia synthesis: Development and perspective. <i>Journal of Rare Earths</i> , 2021 , 40, 1-1	3.7	2

147	Ru-Based Catalysts for Ammonia Decomposition: A Mini-Review. <i>Energy & Fuels</i> , 2021 , 35, 11693-11706	7.06	7
146	Porous flake-like Al-rich MgAl ₂ O ₄ endowed with Mg vacancies for efficient oxidative desulfurization. <i>Applied Catalysis A: General</i> , 2021 , 623, 118238	5.1	1
145	Spatial Confinement of Electron-Rich Ni Nanoparticles for Efficient Ammonia Decomposition to Hydrogen Production. <i>ACS Catalysis</i> , 2021 , 11, 10345-10350	13.1	5
144	Site-oriented design of spinel Mg _x NiMn _{2-x} O ₄ -based cathode material of intermediate-temperature direct ammonia solid oxide fuel cell. <i>Journal of Power Sources</i> , 2021 , 503, 230020	8.9	2
143	Catalytic methane oxidation performance over Pd/Al ₂ O ₃ catalyst optimized by the synergy of phosphorus and MO _x (M = La, Ba and Zr). <i>Fuel</i> , 2021 , 299, 120933	7.1	9
142	Improving the ammonia synthesis activity of Ru/CeO ₂ through enhancement of the metal-support interaction. <i>Journal of Energy Chemistry</i> , 2021 , 60, 403-409	12	5
141	Highly efficient and selective separation of ammonia by deep eutectic solvents through cooperative acid-base and strong hydrogen-bond interaction. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116463	6	25
140	Ru surface density effect on ammonia synthesis activity and hydrogen poisoning of ceria-supported Ru catalysts. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1712-1723	11.3	4
139	Construction of cross-linked MnO ₂ with ultrathin structure for the oxidation of H ₂ S: Structure-activity relationship and kinetics study. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120402	21.8	11
138	Engineering of Ce ³⁺ -O-Ni structures enriched with oxygen vacancies via Zr doping for effective generation of hydrogen from ammonia. <i>Chemical Engineering Science</i> , 2021 , 245, 116818	4.4	2
137	Geometric structure distribution and oxidation state demand of cations in spinel Ni _x Fe _{1-x} Co ₂ O ₄ composite cathodes for solid oxide fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 425, 131822	14.7	3
136	A solid thermal and fast synthesis of MgAl-hydrotalcite nanosheets and their applications in the catalytic elimination of carbonyl sulfide and hydrogen sulfide. <i>New Journal of Chemistry</i> , 2021 , 45, 3535-3545	3.6	1
135	Enhanced Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalysts Induced by CO Activation. <i>ACS Catalysis</i> , 2021 , 11, 1331-1339	13.1	16
134	Characterization and catalytic behavior of hydrotalcite-derived NiAl catalysts for methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 17299-17310	6.7	14
133	Recent advances on nitrogen-doped metal-free materials for the selective catalytic oxidation of hydrogen sulfide. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020 , 25, 100361	7.9	8
132	Promoting effect of Cu-doping on catalytic activity and SO ₂ resistance of porous CeO ₂ nanorods for H ₂ S selective oxidation. <i>Journal of Catalysis</i> , 2020 , 389, 382-399	7.3	23
131	Effect of pore-size distribution on Ru/ZSM-5 catalyst for enhanced N ₂ activation to ammonia via dissociative mechanism. <i>Journal of Rare Earths</i> , 2020 , 38, 873-882	3.7	4
130	Unraveling the Role of Cu ⁰ and Cu ⁺ Sites in Cu/SiO ₂ Catalysts for Water-Gas Shift Reaction. <i>ChemCatChem</i> , 2020 , 12, 4672-4679	5.2	7

129	Operando spectroscopic and isotopic-label-directed observation of LaN-promoted Ru/ZrH ₂ catalyst for ammonia synthesis via associative and chemical looping route. <i>Journal of Catalysis</i> , 2020 , 389, 218-228	7.3	12
128	Investigation on Deactivation of K-promoted Ru Catalyst for Ammonia Synthesis by CO Formation. <i>ChemistrySelect</i> , 2020 , 5, 6639-6645	1.8	3
127	Iron-Based Metal-Organic Frameworks as Platform for HS Selective Conversion: Structure-Dependent Desulfurization Activity. <i>Inorganic Chemistry</i> , 2020 , 59, 4483-4492	5.1	15
126	Site-Oriented Design of High-Performance Halloysite-Supported Palladium Catalysts for Methane Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5636-5647	3.9	15
125	Highly Efficient Porous Fe ₃ C ₁ O ₂ with Three-Dimensional Hierarchical Nanoflower Morphology for H ₂ S-Selective Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 3968-3983	13.1	36
124	Geometric and electronic modification of the active Fe sites of FeO for highly efficient toluene combustion. <i>Journal of Hazardous Materials</i> , 2020 , 398, 123233	12.8	7
123	Facile construction of ultrastable alumina anchored palladium catalysts via a designed one pot strategy for enhanced methane oxidation. <i>Catalysis Science and Technology</i> , 2020 , 10, 4612-4623	5.5	16
122	Zeolite-seed-directed Ru nanoparticles highly resistant against sintering for efficient nitrogen activation to ammonia. <i>Science Bulletin</i> , 2020 , 65, 1085-1093	10.6	3
121	Geometric synergy of Steam/Carbon dioxide Co-electrolysis and methanation in a tubular solid oxide Electrolysis cell for direct Power-to-Methane. <i>Energy Conversion and Management</i> , 2020 , 208, 112570	10.6	8
120	Cu/Fe ₃ O ₄ catalyst for water gas shift reaction: Insight into the effect of Fe ²⁺ and Fe ³⁺ distribution in Fe ₃ O ₄ . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8456-8465	6.7	7
119	Isolated iron sites embedded in graphitic carbon nitride (g-C ₃ N ₄) for efficient oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118663	21.8	44
118	A novel solar system integrating concentrating photovoltaic thermal collectors and variable effect absorption chiller for flexible co-generation of electricity and cooling. <i>Energy Conversion and Management</i> , 2020 , 206, 112506	10.6	11
117	Rational design of highly H ₂ O- and CO ₂ -tolerant hydroxyapatite-supported Pd catalyst for low-temperature methane combustion. <i>Chemical Engineering Journal</i> , 2020 , 396, 125225	14.7	9
116	Efficient catalytic elimination of COS and H ₂ S by developing ordered mesoporous carbons with versatile base N sites via a calcination induced self-assembly route. <i>Chemical Engineering Science</i> , 2020 , 221, 115714	4.4	28
115	Techno-economic analysis and comprehensive optimization of an on-site hydrogen refuelling station system using ammonia: hybrid hydrogen purification with both high H ₂ purity and high recovery. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3006-3017	5.8	15
114	Efficient catalytic removal of COS and H ₂ S over graphitized 2D micro-meso-macroporous carbons endowed with ample nitrogen sites synthesized via mechanochemical carbonization. <i>Green Energy and Environment</i> , 2020 ,	5.7	5
113	Facile Strategy to Extend Stability of Simple Component-Alumina-Supported Palladium Catalysts for Efficient Methane Combustion. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56095-56107	9.5	17
112	Insight into dynamic and steady-state active sites for nitrogen activation to ammonia by cobalt-based catalyst. <i>Nature Communications</i> , 2020 , 11, 653	17.4	39

111	MnO ₂ nanoparticles encapsulated in spheres of Ce-Mn solid solution: Efficient catalyst and good water tolerance for low-temperature toluene oxidation. <i>Applied Surface Science</i> , 2020 , 504, 144481	6.7	29
110	Gas sensing properties of amperometric NH ₃ sensors based on Sm ₂ Zr ₂ O ₇ solid electrolyte and SrM ₂ O ₄ (M = Sm, La, Gd, Y) sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2020 , 303, 127220	8.5	9
109	Enhanced ammonia synthesis performance of ceria-supported Ru catalysts via introduction of titanium. <i>Chemical Communications</i> , 2020 , 56, 1141-1144	5.8	19
108	Pressurized tubular solid oxide H ₂ O/CO ₂ coelectrolysis cell for direct power-to-methane. <i>AIChE Journal</i> , 2020 , 66, e16896	3.6	9
107	Influence of reduction temperature on Ni particle size and catalytic performance of Ni/Mg(Al)O catalyst for CO ₂ reforming of CH ₄ . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2794-2807	6.7	19
106	Highly Active and Sulfur-Resistant Fe-N Sites in Porous Carbon Nitride for the Oxidation of H ₂ S into Elemental Sulfur. <i>Small</i> , 2020 , 16, e2003904	11	13
105	Rational designed Co@N-doped carbon catalyst for high-efficient H ₂ S selective oxidation by regulating electronic structures. <i>Chemical Engineering Journal</i> , 2020 , 401, 126038	14.7	28
104	NiFe/Mg(Al)O alloy catalyst for carbon dioxide reforming of methane: Influence of reduction temperature and NiFe alloying on coking. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33574-33585	6.7	13
103	Atomically Dispersed Ru Catalyst for Low-Temperature Nitrogen Activation to Ammonia via an Associative Mechanism. <i>ACS Catalysis</i> , 2020 , 10, 9504-9514	13.1	20
102	Enhanced Methane Oxidation over Co ₃ O ₄ /In ₂ O _{3-x} Composite Oxide Nanoparticles via Controllable Substitution of Co ³⁺ /Co ²⁺ by In ³⁺ Ions. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9470-9479	5.6	7
101	Microstructural property regulation and performance in methane combustion reaction of ordered mesoporous alumina supported palladium-cobalt bimetallic catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118269	21.8	22
100	Effects of anaerobic SO ₂ treatment on nano-CeO ₂ of different morphologies for selective catalytic reduction of NO _x with NH ₃ . <i>Chemical Engineering Journal</i> , 2020 , 382, 122910	14.7	36
99	Enhanced Selective H ₂ S Oxidation Performance on Mo ₂ C-Modified g-C ₃ N ₄ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16257-16263	8.3	29
98	Structural Evolution of Active Entities on Co ₃ O ₄ /CeO ₂ Catalyst during Water Gas Shift Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17692-17698	3.9	2
97	Porous nanosheets of carbon-conjugated graphitic carbon nitride for the oxidation of H ₂ S to elemental sulfur. <i>Carbon</i> , 2019 , 155, 204-214	10.4	34
96	Facile fabrication of Ce-decorated composition-tunable Ce@ZnCoO core-shell microspheres for enhanced catalytic propane combustion. <i>Nanoscale</i> , 2019 , 11, 4794-4802	7.7	17
95	Efficient ammonia synthesis over a core-shell Ru/CeO ₂ catalyst with a tunable CeO ₂ size: DFT calculations and XAS spectroscopy studies. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 396-406	6.8	17
94	Exfoliation of Graphitic Carbon Nitride for Enhanced Oxidative Desulfurization: A Facile and General Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4941-4950	8.3	49

93	Synthesis, Characterization, and Catalytic Performance of Aminomethylphosphonic Molybdenum Catalysts for Slurry-Phase Hydrocracking. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2689-2696 ⁸	3.9	26
92	Strong metal-support interactions of Co-based catalysts facilitated by dopamine for highly efficient ammonia synthesis: in situ XPS and XAFS spectroscopy coupled with TPD studies. <i>Chemical Communications</i> , 2019 , 55, 474-477	5.8	26
91	Enhanced catalytic activity over MIL-100(Fe) with coordinatively unsaturated Fe ²⁺ /Fe ³⁺ sites for selective oxidation of H ₂ S to sulfur. <i>Chemical Engineering Journal</i> , 2019 , 374, 793-801	14.7	63
90	Effects of Using Carbon-Coated Alumina as Support for Ba-Promoted Ru Catalyst in Ammonia Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10285-10295	3.9	12
89	Biomass-Derived Hierarchically Porous Carbons Abundantly Decorated with Nitrogen Sites for Efficient CO ₂ Catalytic Utilization. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7980-7988 ^{3.9}	3.9	17
88	Cu incorporated perovskite Na _{0.5} Bi _{0.5} TiO ₃ oxygen-defect conductor as NO ₂ sensor using CuO sensitive electrode. <i>Ceramics International</i> , 2019 , 45, 8494-8503	5.1	10
87	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H ₂ S. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7609-7618	8.3	50
86	Coupling ammonia catalytic decomposition and electrochemical oxidation for solid oxide fuel cells: A model based on elementary reaction kinetics. <i>Journal of Power Sources</i> , 2019 , 423, 125-136	8.9	16
85	Insight into the effect of morphology on catalytic performance of porous CeO ₂ nanocrystals for H ₂ S selective oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 98-110	21.8	118
84	Thermodynamic and molecular insights into the absorption of H ₂ S, CO ₂ , and CH ₄ in choline chloride plus urea mixtures. <i>AIChE Journal</i> , 2019 , 65, e16574	3.6	90
83	Ammonia-free synthesis of Mo/CoMgAl catalysts with excellent activities in water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2019 , 575, 58-64	5.1	7
82	Molecular-level understanding of reaction path optimization as a function of shape concerning the metal-support interaction effect of Co/CeO ₂ on water-gas shift catalysis. <i>Catalysis Science and Technology</i> , 2019 , 9, 4928-4937	5.5	11
81	Mechanochemically synthesized MgAl layered double hydroxide nanosheets for efficient catalytic removal of carbonyl sulfide and HS. <i>Chemical Communications</i> , 2019 , 55, 9375-9378	5.8	25
80	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and HS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29950-29959 ⁵	5.5	38
79	Low-Temperature H ₂ S Removal from Gas Streams over γ -FeOOH, α -Fe ₂ O ₃ , and β -Fe ₂ O ₃ : Effects of the Hydroxyl Group, Defect, and Specific Surface Area. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19353-19360	3.9	31
78	Three-dimensional ordered macroporous Ru-substituted BaZrO ₃ perovskites: active catalysts for ammonia synthesis under mild conditions. <i>Catalysis Science and Technology</i> , 2019 , 9, 6217-6221	5.5	2
77	Ammonia Synthesis Activity of Alumina-Supported Ruthenium Catalyst Enhanced by Alumina Phase Transformation. <i>ACS Catalysis</i> , 2019 , 9, 1635-1644	13.1	49
76	Pyrochlore Pr ₂ Zr _{1.95} In _{0.05} O _{7-δ} oxygen conductors: Defect-induced electron transport and enhanced NO ₂ sensing performances. <i>Electrochimica Acta</i> , 2019 , 293, 338-347	6.7	11

75	Effect of Ce modification on the structural and catalytic property of Co-Mo/Mg(Al)O catalyst for water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2018 , 553, 36-42	5.1	14
74	Insights into the high performance of Mn-Co oxides derived from metal-organic frameworks for total toluene oxidation. <i>Journal of Hazardous Materials</i> , 2018 , 349, 119-127	12.8	108
73	Facile fabrication of shape-controlled CoMnO nanocatalysts for benzene oxidation at low temperatures. <i>Chemical Communications</i> , 2018 , 54, 2154-2157	5.8	33
72	Preparation of a Highly Efficient Carbon-Supported Ruthenium Catalyst by Carbon Monoxide Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2819-2828	3.9	10
71	Structural requirements of manganese oxides for methane oxidation: XAS spectroscopy and transition-state studies. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 52-62	21.8	43
70	A solvent-free, one-step synthesis of sulfonic acid group-functionalized mesoporous organosilica with ultra-high acid concentrations and excellent catalytic activities. <i>Green Chemistry</i> , 2018 , 20, 1020-1030	10	33
69	Effects of Doping Rare Earth Elements (Y, La, and Ce) on Catalytic Performances of CoMo/MgAlM for Water Gas Shift Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 833-844	3.9	14
68	Hydrotalcite-derived Co/Mg(Al)O as a stable and coke-resistant catalyst for low-temperature carbon dioxide reforming of methane. <i>Applied Catalysis A: General</i> , 2018 , 552, 21-29	5.1	29
67	Carbon support surface effects in the catalytic performance of Ba-promoted Ru catalyst for ammonia synthesis. <i>Catalysis Today</i> , 2018 , 316, 230-236	5.3	17
66	Polymeric carbon nitride nanomesh as an efficient and durable metal-free catalyst for oxidative desulfurization. <i>Chemical Communications</i> , 2018 , 54, 2475-2478	5.8	77
65	Cu/CeO Catalyst for Water-Gas Shift Reaction: Effect of CeO Pretreatment. <i>ChemPhysChem</i> , 2018 , 19, 1448-1455	3.2	29
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59	Synthesis of CoMn oxides with double-shelled nanocages for low-temperature toluene combustion. <i>Catalysis Science and Technology</i> , 2018 , 8, 4494-4502	5.5	34
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55	A green and efficient hydration of alkynes catalyzed by hierarchically porous poly(ionic liquid)s solid strong acids. <i>Applied Catalysis A: General</i> , 2018 , 564, 56-63	5.1	24
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52	MOF-derived porous Fe ₂ O ₃ with controllable shapes and improved catalytic activities in H ₂ S selective oxidation. <i>CrystEngComm</i> , 2018 , 20, 3449-3454	3.3	32
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49	Hybrid Mo-C Nanowires as Highly Efficient Catalysts for Direct Dehydrogenation of Isobutane. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23112-23121	9.5	11
48	Preparation of CuO/CeO ₂ Catalyst with Enhanced Catalytic Performance for Water-Gas Shift Reaction in Hydrogen Production. <i>Energy Technology</i> , 2018 , 6, 1096-1103	3.5	11
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