Chunshan Song

List of Publications by Year
in descending order

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452 papers	33,570 citations	4388 86 h-index	5394 164 g-index
479 all docs	479 docs citations	479 times ranked	21099 citing authors

#	Article	IF	Citations
1	Computational understanding of Fe-Pt synergy in promoting guaiacol hydrodeoxygenation. Surface Science, 2022, 717, 121985.	1.9	4
2	Metalâ€“Organic Framework-Derived Tubular In₂O₃â€“C/CdIn₂S₄ Heterojunction for Efficient Solar-Driven CO₂ Conversion. ACS Applied Materials & Interfaces, 2022, 14, 20375-20384.	8.0	26
3	An S-scheme heterojunction constructed from Î±-Fe₂O₃ and In-doped carbon nitride for high-efficiency CO₂ photoreduction. Catalysis Science and Technology, 2022, 12, 1520-1529.	4.1	16
4	Recent advances in application of iron-based catalysts for CO hydrogenation to value-added hydrocarbons. Chinese Journal of Catalysis, 2022, 43, 731-754.	14.0	35
5	Dynamic structural evolution of iron catalysts involving competitive oxidation and carburization during CO ₂ hydrogenation. Science Advances, 2022, 8, eabm3629.	10.3	92
6	Tailored Synthesis of ZSM-5 Nanosheets with Controllable b-Axis Thickness and Aspect Ratio: Strategy and Growth Mechanism. Chemistry of Materials, 2022, 34, 3217-3226.	6.7	39
7	Coke-resistant (PtÂ+ÂNi)/ZSM-5 catalyst for shape-selective alkylation of toluene with methanol to para-xylene. Chemical Engineering Science, 2022, 252, 117529.	3.8	14
8	Coupling of LaFeO₃â€“Plasma Catalysis and Cu⁺/Cu⁰ Electrocatalysis for Direct Ammonia Synthesis from Air. Industrial & Engineering Chemistry Research, 2022, 61, 4816-4823.	3.7	9
9	Computational identification of facet-dependent CO2 initial activation and hydrogenation over iron carbide catalyst. Journal of CO2 Utilization, 2022, 59, 101967.	6.8	10
10	Intermediate-induced repolymerization for constructing self-assembly architecture: Red crystalline carbon nitride nanosheets for notable hydrogen evolution. Applied Catalysis B: Environmental, 2022, 310, 121323.	20.2	15
11	Plastering Sponge with Nanocarbon-Containing Slurry to Construct Mechanically Robust Macroporous Monolithic Catalysts for Direct Dehydrogenation of Ethylbenzene. ACS Applied Materials & Interfaces, 2022, , .	8.0	1
12	Nitrogen-rich porous polymeric carbon nitride with enhanced photocatalytic activity for synergistic removal of organic and heavy metal pollutants. Environmental Science: Nano, 2022, 9, 2388-2401.	4.3	6
13	Co-Promoted In₂O₃/ZrO₂ Integrated with Ultrathin Nanosheet HZSM-5 as Efficient Catalysts for CO₂ Hydrogenation to Gasoline. Industrial & Engineering Chemistry Research, 2022, 61, 6322-6332.	3.7	11
14	Elucidating the Active-Phase Evolution of Fe-Based Catalysts during Isobutane Dehydrogenation with and without CO₂ in Feed Gas. ACS Catalysis, 2022, 12, 5930-5938.	11.2	10
15	Boosting the Production of Higher Alcohols from CO₂ and H₂ over Mn- and K-Modified Iron Carbide. Industrial & Engineering Chemistry Research, 2022, 61, 7266-7274.	3.7	4
16	Promoting Propane Dehydrogenation with CO₂ over the PtFe Bimetallic Catalyst by Eliminating the Non-selective Fe(0) Phase. ACS Catalysis, 2022, 12, 6559-6569.	11.2	26
17	Crystallographic dependence of CO2 hydrogenation pathways over HCP-Co and FCC-Co catalysts. Applied Catalysis B: Environmental, 2022, 315, 121529.	20.2	24
18	Mechanistic Insight into the Promotional Effect of CO₂ on Propane Aromatization over Zn/ZSM-5. Industrial & Engineering Chemistry Research, 2022, 61, 10483-10495.	3.7	8

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19	Unraveling the tunable selectivity on cobalt oxide and metallic cobalt sites for CO2 hydrogenation. Chemical Engineering Journal, 2022, 446, 137217.	12.7	13
20	Design of highly stable metal/ZSM-5 catalysts for the shape-selective alkylation of toluene with methanol to para-xylene. Inorganic Chemistry Frontiers, 2022, 9, 3348-3358.	6.0	9
21	Effective adsorption of Ultra-dilute CO2 over Polyethyleneimine-based adsorbent for H2 purification. Separation and Purification Technology, 2022, 299, 121686.	7.9	3
22	Boosting light olefin selectivity in CO2 hydrogenation by adding Co to Fe catalysts within close proximity. Catalysis Today, 2021, 371, 142-149.	4.4	43
23	Insight into the role of Fe5C2 in CO2 catalytic hydrogenation to hydrocarbons. Catalysis Today, 2021, 371, 162-170.	4.4	50
24	New insight into the mechanism of enhanced photo-Fenton reaction efficiency for Fe-doped semiconductors: A case study of Fe/g-C3N4. Catalysis Today, 2021, 371, 58-63.	4.4	36
25	Regenerable solid molecular basket sorbents for selective SO2 capture from CO2-rich gas streams. Catalysis Today, 2021, 371, 231-239.	4.4	6
26	Deep removal of SO2 from cathode air over polyethylenimine-modified SBA-15 sorbents for fuel cells. Catalysis Today, 2021, 371, 240-246.	4.4	7
27	Adsorptive desulfurization of jet fuels over TiO2-CeO2 mixed oxides: Role of surface Ti and Ce cations. Catalysis Today, 2021, 371, 265-275.	4.4	23
28	One-pot synthesis of the highly efficient bifunctional Ni-SAPO-11 catalyst. Journal of Materials Science and Technology, 2021, 76, 86-94.	10.7	20
29	Reaction-driven surface reconstruction of ZnAl2O4 boosts the methanol selectivity in CO2 catalytic hydrogenation. Applied Catalysis B: Environmental, 2021, 284, 119700.	20.2	53
30	Cobalt oxide with flake-like morphology as efficient passive NOx adsorber. Catalysis Communications, 2021, 149, 106203.	3.3	11
31	Stable Zn@ZSM-5 catalyst via a dry gel conversion process for methanol-to-aromatics reaction. Microporous and Mesoporous Materials, 2021, 312, 110696.	4.4	14
32	One-step plasma-enabled catalytic carbon dioxide hydrogenation to higher hydrocarbons: significance of catalyst-bed configuration. Green Chemistry, 2021, 23, 1642-1647.	9.0	23
33	CO₂ Hydrogenation to Methanol over In₂O₃-Based Catalysts: From Mechanism to Catalyst Development. ACS Catalysis, 2021, 11, 1406-1423.	11.2	198
34	Catalytic Conversion of Carbon Dioxide to Methanol: Current Status and Future Perspective. Frontiers in Energy Research, 2021, 8, .	2.3	36
35	Mechanistic Insight into the Hydrodeoxygenation of Hydroquinone over Au/a-TiO₂ Catalyst. Journal of Physical Chemistry C, 2021, 125, 6660-6672.	3.1	7
36	A refined design concept for sulfur-tolerant Pd catalyst supported on zeolite by shape-selective exclusion and hydrogen spillover for hydrogenation of aromatics. Journal of Catalysis, 2021, 403, 203-214.	6.2	14

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37	Facile Construction of a Hollow In₂S₃/Polymeric Carbon Nitride Heterojunction for Efficient Visible-Light-Driven CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 5942-5951.	6.7	37
38	Dynamic Evolution of Fe and Carbon Species over Different ZrO₂ Supports during CO Prereduction and Their Effects on CO₂ Hydrogenation to Light Olefins. ACS Sustainable Chemistry and Engineering, 2021, 9, 7891-7903.	6.7	35
39	Promising Strategy to Synthesize ZSM-5@Silicalite-1 with Superior Catalytic Performance for Catalytic Cracking Reactions. Industrial & Engineering Chemistry Research, 2021, 60, 9098-9106.	3.7	7
40	Influence of surfactant-assisted synthesis and different operational parameters on photocatalytic performance of Cu2FeSnS4 particles. Surfaces and Interfaces, 2021, 24, 101134.	3.0	5
41	Selective Hydrogenation of CO₂ to Hydrocarbons: Effects of Fe₃O₄ Particle Size on Reduction, Carburization, and Catalytic Performance. Energy & Fuels, 2021, 35, 10703-10709.	5.1	27
42	Computational Insights into the Hydrodeoxygenation of Phenolic Compounds over Ptâ€“Fe Catalysts. Journal of Physical Chemistry C, 2021, 125, 14239-14252.	3.1	4
43	Plasma-enhanced catalytic reduction of SO2: Decoupling plasma-induced surface reaction from plasma-phase reaction. Applied Catalysis B: Environmental, 2021, 286, 119852.	20.2	12
44	Impacts of nano-scale pore structure and organic amine assembly in porous silica on the kinetics of CO2 adsorptive separation. Nano Research, 2021, 14, 3294-3302.	10.4	10
45	From nano aggregates to nano plates: The roles of gelatin in the crystallization of titanium silicate-1. Microporous and Mesoporous Materials, 2021, 321, 111100.	4.4	6
46	Fabrication of Isolated VOx Sites on Alumina for Highly Active and Stable Non-Oxidative Dehydrogenation. Journal of Physical Chemistry C, 2021, 125, 19229-19237.	3.1	6
47	Effects of the Pore Structure and Acidâ€“Base Property of X Zeolites on Side-Chain Alkylation of Toluene with Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 14381-14396.	3.7	8
48	Bimetallic metal organic framework-templated synthesis of a Cu-ZnO/Al2O3 catalyst with superior methanol selectivity for CO2 hydrogenation. Molecular Catalysis, 2021, 514, 111870.	2.0	19
49	Promoting propane dehydrogenation with CO2 over Ga2O3/SiO2 by eliminating Ga-hydrides. Chinese Journal of Catalysis, 2021, 42, 2225-2233.	14.0	13
50	CO2 Hydrogenation to Olefin-Rich Hydrocarbons Over Fe-Cu Bimetallic Catalysts: An Investigation of Fe-Cu Interaction and Surface Species. Frontiers in Chemical Engineering, 2021, 3, .	2.7	5
51	Selfâ€Supporting 3D Carbon Nitride with Tunable n â†' Ï€* Electronic Transition for Enhanced Solar Hydrogen Production. Advanced Materials, 2021, 33, e2104361.	21.0	105
52	Synergistic Catalysis of the Synthesis of Ammonia with Co-Based Catalysts and Plasma: From Nanoparticles to a Single Atom. ACS Applied Materials & Interfaces, 2021, 13, 52498-52507.	8.0	14
53	Light-Enhanced Oxidative Adsorption Desulfurization of Diesel Fuel over TiO₂â€“ZrO₂ Mixed Oxides. Energy & Fuels, 2021, 35, 17512-17521.	5.1	6
54	Concurrent Manipulation of Out-of-Plane and Regional In-Plane Orientations of NH₂-UiO-66 Membranes with Significantly Reduced Anisotropic Grain Boundary and Superior H₂/CO₂ Separation Performance. ACS Applied Materials & Interfaces, 2020, 12, 4494-4500.	8.0	50

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55	Variation in the In₂O₃ Crystal Phase Alters Catalytic Performance toward the Reverse Water Gas Shift Reaction. ACS Catalysis, 2020, 10, 3264-3273.	11.2	112
56	A mutually isolated nanodiamond/porous carbon nitride nanosheet hybrid with enriched active sites for promoted catalysis in styrene production. Catalysis Science and Technology, 2020, 10, 1048-1055.	4.1	7
57	Microstructural optimization of NH2-MIL-125 membranes with superior H2/CO2 separation performance by innovating metal sources and heating modes. Journal of Membrane Science, 2020, 616, 118615.	8.2	30
58	pH swing adsorption process for ambient carbon dioxide capture using activated carbon black adsorbents and immobilized carbonic anhydrase biocatalysts. Applied Energy, 2020, 280, 116003.	10.1	13
59	Role of Recrystallization in Alkaline Treatment on the Catalytic Activity of 1â€Butene Epoxidation. ChemCatChem, 2020, 12, 6196-6204.	3.7	6
60	Mechanistic understanding of ethane dehydrogenation and aromatization over Zn/ZSM-5: effects of Zn modification and CO₂ co-reactant. Catalysis Science and Technology, 2020, 10, 8359-8373.	4.1	17
61	Plasma-assisted catalytic reduction of SO2 to elemental sulfur: Influence of nonthermal plasma and temperature on iron sulfide catalyst. Journal of Catalysis, 2020, 391, 260-272.	6.2	21
62	Effect of surface structure and Pd doping of Fe catalysts on the selective hydrodeoxygenation of phenol. Catalysis Today, 2020, 371, 189-189.	4.4	12
63	Recent progress in synthesis and application of zeolite-encapsulated metal catalysts. Advances in Catalysis, 2020, 67, 91-133.	0.2	6
64	Adsorptive desulfurization of thiophene over Ti0.9Ce0.1O2 mixed oxide: A mechanistic study on the basis of XPS, in-situ FT-IR and TPD characterizations. Catalysis Today, 2020, , .	4.4	6
65	Hydrogen sulfide removal from biogas on ZIF-derived nitrogen-doped carbons. Catalysis Today, 2020, 371, 221-221.	4.4	4
66	Influence of Loading a Tertiary Amine on Activated Carbons and Effect of CO₂ on Adsorptive H₂S Removal from Biogas. ACS Sustainable Chemistry and Engineering, 2020, 8, 9998-10008.	6.7	13
67	CO2 hydrogenation to methanol over bimetallic Pd-Cu catalysts supported on TiO2-CeO2 and TiO2-ZrO2. Catalysis Today, 2020, 371, 150-150.	4.4	17
68	Deconvolution of the Particle Size Effect on CO₂ Hydrogenation over Iron-Based Catalysts. ACS Catalysis, 2020, 10, 7424-7433.	11.2	108
69	New Approach to Enhance CO2 Capture of â€œMolecular Basketâ€•Sorbent by Using 3-Aminopropyltriethoxysilane to Reshape Fumed Silica Support. Industrial & Engineering Chemistry Research, 2020, 59, 7267-7273.	3.7	15
70	Computational and experimental identification of strong synergy of the Fe/ZnO catalyst in promoting acetic acid synthesis from CH₄ and CO₂. Chemical Communications, 2020, 56, 3983-3986.	4.1	27
71	A combined experimental and DFT study of H2O effect on In2O3/ZrO2 catalyst for CO2 hydrogenation to methanol. Journal of Catalysis, 2020, 383, 283-296.	6.2	73
72	Enhanced kinetics for CO2 sorption in amine-functionalized mesoporous silica nanosphere with inverted cone-shaped pore structure. Applied Energy, 2020, 264, 114637.	10.1	47

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73	Fast and efficient upgrading of levulinic acid into long-chain alkyl levulinate fuel additives with a tungsten salt catalyst at low temperature. Sustainable Energy and Fuels, 2020, 4, 2018-2025.	4.9	28
74	Recent Advances in Carbon Dioxide Hydrogenation to Methanol via Heterogeneous Catalysis. Chemical Reviews, 2020, 120, 7984-8034.	47.7	825
75	Solar-driven CO2 conversion over Co2+ doped 0D/2D TiO2/g-C3N4 heterostructure: Insights into the role of Co2+ and cocatalyst. Journal of CO2 Utilization, 2020, 38, 16-23.	6.8	49
76	One-Step Low-Temperature Reduction of Sulfur Dioxide to Elemental Sulfur by Plasma-Enhanced Catalysis. ACS Catalysis, 2020, 10, 5272-5277.	11.2	22
77	Hydrodeoxygenation of Guaiacol Catalyzed by ZrO₂â€“CeO₂-Supported Nickel Catalysts with High Loading. Energy & Fuels, 2020, 34, 4685-4692.	5.1	21
78	A facile sulfur-assisted method to synthesize porous alveolate Fe/g-C3N4 catalysts with ultra-small cluster and atomically dispersed Fe sites. Chinese Journal of Catalysis, 2020, 41, 1198-1207.	14.0	37
79	Synthesis and Characterization of Fe-Substituted ZSM-5 Zeolite and Its Catalytic Performance for Alkylation of Benzene with Dilute Ethylene. Industrial & Engineering Chemistry Research, 2020, 59, 22413-22421.	3.7	18
80	Introduction to Chemistry of Diesel Fuels. , 2020, , 1-60.		3
81	Novel Mesoporous Co-Mo/MCM-41 Catalysts for Deep Hydrodesulfurization of Diesel Fuels. , 2020, , 139-156.		3
82	Carbon Capture From Flue Gas and the Atmosphere: A Perspective. Frontiers in Energy Research, 2020, 8, .	2.3	165
83	Reaction mechanism of toluene <italic>tert</italic>-butylation with <italic>tert</italic>-Butyl alcohol over H-β and H-MOR zeolite: a QM/MM study. Scientia Sinica Chimica, 2020, 50, 384-392.	0.4	0
84	The template-assisted zinc ion incorporation in SAPO-34 and the enhanced ethylene selectivity in MTO reaction. Journal of Energy Chemistry, 2019, 32, 174-181.	12.9	21
85	Mechanistic Insight into Propylene Epoxidation with H₂O₂ over Titanium Silicalite-1: Effects of Zeolite Confinement and Solvent. Journal of Physical Chemistry B, 2019, 123, 7410-7423.	2.6	21
86	Effects of supports on bimetallic Pd-Cu catalysts for CO2 hydrogenation to methanol. Applied Catalysis A: General, 2019, 585, 117210.	4.3	65
87	High-Loading Nickel Phosphide Catalysts Supported on SiO₂â€“TiO₂ for Hydrodeoxygenation of Guaiacol. Energy & Fuels, 2019, 33, 7696-7704.	5.1	28
88	Capture of CO2 from Concentrated Sources and the Atmosphere. , 2019, , 35-72.		4
89	Use of CO2 as Source of Carbon for Energy-Rich Cn Products. , 2019, , 211-238.		1
90	Capsuleâ€structured Copperâ€“Zinc Catalyst for Highly Efficient Hydrogenation of Carbon Dioxide to Methanol. ChemSusChem, 2019, 12, 4904-4904.	6.8	0

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91	Capuleâ€Structured Copperâ€“Zinc Catalyst for Highly Efficient Hydrogenation of Carbon Dioxide to Methanol. ChemSusChem, 2019, 12, 4916-4926.	6.8	17
92	Discovering Inherent Characteristics of Polyethylenimine-Functionalized Porous Materials for CO₂ Capture. ACS Applied Materials & Interfaces, 2019, 11, 36515-36524.	8.0	31
93	Defects Promote Ultrafast Charge Separation in Graphitic Carbon Nitride for Enhanced Visibleâ€Lightâ€Driven CO₂ Reduction Activity. Chemistry - A European Journal, 2019, 25, 5028-5035.	3.3	85
94	Organic acid-assisted preparation of highly dispersed Co/ZrO2 catalysts with superior activity for CO2 methanation. Applied Catalysis B: Environmental, 2019, 254, 531-540.	20.2	122
95	Defect-Enriched N,O-Codoped Nanodiamond/Carbon Nanotube Catalysts for Styrene Production via Dehydrogenation of Ethylbenzene. ACS Applied Nano Materials, 2019, 2, 2152-2159.	5.0	18
96	Controllable assembly of single/double-thin-shell g-C₃N₄ vesicles via a shape-selective solid-state templating method for efficient photocatalysis. Journal of Materials Chemistry A, 2019, 7, 17815-17822.	10.3	33
97	Tuning the product selectivity of SAPO-18 catalysts in MTO reaction via cavity modification. Chinese Journal of Catalysis, 2019, 40, 477-485.	14.0	14
98	Crâ€“doped ZnS semiconductor catalyst with high catalytic activity for hydrogen production from hydrogen sulfide in non-thermal plasma. Catalysis Today, 2019, 337, 83-89.	4.4	30
99	Overcoating the Surface of Fe-Based Catalyst with ZnO and Nitrogen-Doped Carbon toward High Selectivity of Light Olefins in CO₂ Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 4017-4023.	3.7	35
100	CO₂ Hydrogenation on Unpromoted and M-Promoted Co/TiO₂ Catalysts (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Distribution. ACS Catalysis, 2019, 9, 2739-2751.	11.2	130
101	Recent advances in catalytic CO2 hydrogenation to alcohols and hydrocarbons. Advances in Catalysis, 2019, , 121-233.	0.2	27
102	Single Atomic Cu-N2 Catalytic Sites for Highly Active and Selective Hydroxylation of Benzene to Phenol. IScience, 2019, 22, 97-108.	4.1	52
103	CO2 hydrogenation to methanol on Pd Cu bimetallic catalysts with lower metal loadings. Catalysis Communications, 2019, 118, 10-14.	3.3	45
104	Comparative computational study of CO2 dissociation and hydrogenation over Fe-M (M = Pd, Ni, Co) bimetallic catalysts: The effect of surface metal content. Journal of CO2 Utilization, 2019, 29, 179-195.	6.8	17
105	Utilization of CO2 for aromatics production over ZnO/ZrO2-ZSM-5 tandem catalyst. Journal of CO2 Utilization, 2019, 29, 140-145.	6.8	96
106	Origin of Pd-Cu bimetallic effect for synergetic promotion of methanol formation from CO2 hydrogenation. Journal of Catalysis, 2019, 369, 21-32.	6.2	80
107	Facile and green synthesis of TiN/C as electrode materials for supercapacitors. Applied Surface Science, 2019, 470, 241-249.	6.1	22
108	Hydrodeoxygenation of Guaiacol Catalyzed by High-Loading Ni Catalysts Supported on SiO₂â€“TiO₂ Binary Oxides. Industrial & Engineering Chemistry Research, 2019, 58, 1513-1524.	3.7	55

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109	Visible-light-initiated one-pot clean synthesis of nitrone from nitrobenzene and benzyl alcohol over CdS photocatalyst. Journal of Catalysis, 2019, 370, 97-106.	6.2	20
110	Influence of Diffusion and Acid Properties on Methane and Propane Selectivity in Methanol-to-Olefins Reaction. Industrial & Engineering Chemistry Research, 2019, 58, 1896-1905.	3.7	22
111	Interfacial charge transfer in 0D/2D defect-rich heterostructures for efficient solar-driven CO2 reduction. Applied Catalysis B: Environmental, 2019, 245, 760-769.	20.2	118
112	A short review of recent advances in CO₂hydrogenation to hydrocarbons over heterogeneous catalysts. RSC Advances, 2018, 8, 7651-7669.	3.6	499
113	CO2 hydrogenation to methanol on Pd-Cu bimetallic catalysts: H2/CO2 ratio dependence and surface species. Catalysis Today, 2018, 316, 62-70.	4.4	52
114	Feâ€“Cu Bimetallic Catalysts for Selective CO₂ Hydrogenation to Olefin-Rich C₂⁺ Hydrocarbons. Industrial & Engineering Chemistry Research, 2018, 57, 4535-4542.	3.7	88
115	Mechanistic Understanding of Alloy Effect and Water Promotion for Pd-Cu Bimetallic Catalysts in CO₂ Hydrogenation to Methanol. ACS Catalysis, 2018, 8, 4873-4892.	11.2	171
116	Effect of titanium ester on synthesizing NH2-MIL-125(Ti): Morphology changes from circular plate to octahedron and rhombic dodecahedron. Journal of Solid State Chemistry, 2018, 262, 237-243.	2.9	28
117	Increasing the selectivity to ethylene in the MTO reaction by enhancing diffusion limitation in the shell layer of SAPO-34 catalyst. Chemical Communications, 2018, 54, 3146-3149.	4.1	49
118	Al2O3 and CeO2-promoted MgO sorbents for CO2 capture at moderate temperatures. Frontiers of Chemical Science and Engineering, 2018, 12, 83-93.	4.4	30
119	Mesoporous/Microporous Titanium Silicalite with Controllable Pore Diameter for Cyclohexene Epoxidation. Industrial & Engineering Chemistry Research, 2018, 57, 512-520.	3.7	38
120	DFT insight into the support effect on the adsorption and activation of key species over Co catalysts for CO2 methanation. Journal of CO2 Utilization, 2018, 24, 99-111.	6.8	36
121	Two-dimensional transition metal dichalcogenides as metal sources of metalâ€“organic frameworks. Chemical Communications, 2018, 54, 3664-3667.	4.1	12
122	Pyrolyzing ZIF-8 to N-doped porous carbon facilitated by iron and potassium for CO2 hydrogenation to value-added hydrocarbons. Journal of CO2 Utilization, 2018, 25, 120-127.	6.8	67
123	Fe-based bimetallic catalysts supported on TiO2 for selective CO2 hydrogenation to hydrocarbons. Journal of CO2 Utilization, 2018, 25, 330-337.	6.8	63
124	Hydrogenation of levulinic acid into gamma-valerolactone over in situ reduced CuAg bimetallic catalyst: Strategy and mechanism of preventing Cu leaching. Applied Catalysis B: Environmental, 2018, 232, 1-10.	20.2	95
125	Fluoride-mediated nano-sized high-silica ZSM-5 as an ultrastable catalyst for methanol conversion to propylene. Journal of Energy Chemistry, 2018, 27, 1225-1230.	12.9	28
126	ZrO2 support imparts superior activity and stability of Co catalysts for CO2 methanation. Applied Catalysis B: Environmental, 2018, 220, 397-408.	20.2	265

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127	The anti-sintering catalysts: Feâ€“Coâ€“Zr polymetallic fibers for CO2 hydrogenation to C2=â€‰â€“C4=â€‰â€“rich hydrocarbons. Journal of CO2 Utilization, 2018, 23, 219-225.	6.8	54
128	Advances in the synthesis and catalysis of solid and hollow zeolite-encapsulated metal catalysts. Advances in Catalysis, 2018, 63, 75-115.	0.2	8
129	Preassembly Strategy To Fabricate Porous Hollow Carbonitride Spheres Inlaid with Single Cuâ€“N₃ Sites for Selective Oxidation of Benzene to Phenol. Journal of the American Chemical Society, 2018, 140, 16936-16940.	13.7	156
130	Inâ€Plane Epitaxial Growth of Highly câ€Oriented NH₂â€MILâ€125(Ti) Membranes with Superior H₂/CO₂ Selectivity. Angewandte Chemie, 2018, 130, 16320-16325.	2.0	44
131	Inâ€Plane Epitaxial Growth of Highly câ€Oriented NH₂â€MILâ€125(Ti) Membranes with Superior H₂/CO₂ Selectivity. Angewandte Chemie - International Edition, 2018, 57, 16088-16093.	13.8	125
132	Enhancing ethylene selectivity in MTO reaction by incorporating metal species in the cavity of SAPO-34 catalysts. Chinese Journal of Catalysis, 2018, 39, 1821-1831.	14.0	29
133	High-Density Ultra-small Clusters and Single-Atom Fe Sites Embedded in Graphitic Carbon Nitride (g-C₃N₄) for Highly Efficient Catalytic Advanced Oxidation Processes. ACS Nano, 2018, 12, 9441-9450.	14.6	455
134	Promoting effect of cyano groups attached on g-C3N4 nanosheets towards molecular oxygen activation for visible light-driven aerobic coupling of amines to imines. Journal of Catalysis, 2018, 366, 237-244.	6.2	68
135	Reconstructing Supramolecular Aggregates to Nitrogen-Deficient g-C₃N₄ Bunchy Tubes with Enhanced Photocatalysis for H₂ Production. ACS Applied Materials & Interfaces, 2018, 10, 18746-18753.	8.0	97
136	In Situ Aluminum Migration into Zeolite Framework during Methanol-To-Propylene Reaction: An Innovation To Design Superior Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 8190-8199.	3.7	18
137	Selective CO₂ Hydrogenation to Hydrocarbons on Cu-Promoted Fe-Based Catalysts: Dependence on Cuâ€“Fe Interaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 10182-10190.	6.7	95
138	Direct Transformation of Carbon Dioxide to Value-Added Hydrocarbons by Physical Mixtures of Fe₅C₂ and K-Modified Al₂O₃. Industrial & Engineering Chemistry Research, 2018, 57, 9120-9126.	3.7	56
139	Adsorption, Dissociation, and Spillover of Hydrogen over Au/TiO₂ Catalysts: The Effects of Cluster Size and Metalâ€“Support Interaction from DFT. Journal of Physical Chemistry C, 2018, 122, 17895-17916.	3.1	44
140	Highly selective conversion of CO2 to lower hydrocarbons (C2-C4) over bifunctional catalysts composed of In2O3-ZrO2 and zeolite. Journal of CO2 Utilization, 2018, 27, 81-88.	6.8	65
141	Facet effect on CO2 adsorption, dissociation and hydrogenation over Fe catalysts: Insight from DFT. Journal of CO2 Utilization, 2018, 26, 160-170.	6.8	35
142	DFT insight into the effect of potassium on the adsorption, activation and dissociation of CO₂ over Fe-based catalysts. Physical Chemistry Chemical Physics, 2018, 20, 14694-14707.	2.8	40
143	Enhanced visible light photocatalytic non-oxygen coupling of amines to imines integrated with hydrogen production over Ni/CdS nanoparticles. Catalysis Science and Technology, 2018, 8, 5148-5154.	4.1	40
144	Higher Hydrocarbons Synthesis from CO2 Hydrogenation Over K- and La-Promoted Feâ€“Cu/TiO2 Catalysts. Topics in Catalysis, 2018, 61, 1551-1562.	2.8	38

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145	Hollow zeolite-encapsulated Fe-Cu bimetallic catalysts for phenol degradation. Catalysis Today, 2017, 297, 335-343.	4.4	44
146	Methanol Usage in Toluene Methylation over Pt Modified ZSM-5 Catalyst: Effects of Total Pressure and Carrier Gas. Industrial & Engineering Chemistry Research, 2017, 56, 4709-4717.	3.7	22
147	CO 2 hydrogenation to hydrocarbons over alumina-supported iron catalyst: Effect of support pore size. Journal of CO2 Utilization, 2017, 19, 202-208.	6.8	51
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