

Chunshan Song

List of Publications by Year in descending order

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452
papers

33,570
citations

5126

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h-index

6177

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all docs

479
docs citations

479
times ranked

23662
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational understanding of Fe-Pt synergy in promoting guaiacol hydrodeoxygenation. <i>Surface Science</i> , 2022, 717, 121985.	0.8	4
2	Metal-Organic Framework-Derived Tubular In ₂ O ₃ /CdIn ₂ S ₄ Heterojunction for Efficient Solar-Driven CO ₂ Conversion. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20375-20384.	4.0	26
3	An S-scheme heterojunction constructed from $\hat{\Gamma}$ -Fe ₂ O ₃ and In-doped carbon nitride for high-efficiency CO ₂ photoreduction. <i>Catalysis Science and Technology</i> , 2022, 12, 1520-1529.	2.1	16
4	Recent advances in application of iron-based catalysts for CO hydrogenation to value-added hydrocarbons. <i>Chinese Journal of Catalysis</i> , 2022, 43, 731-754.	6.9	35
5	Dynamic structural evolution of iron catalysts involving competitive oxidation and carburization during CO ₂ hydrogenation. <i>Science Advances</i> , 2022, 8, eabm3629.	4.7	92
6	Tailored Synthesis of ZSM-5 Nanosheets with Controllable <i>c</i> -Axis Thickness and Aspect Ratio: Strategy and Growth Mechanism. <i>Chemistry of Materials</i> , 2022, 34, 3217-3226.	3.2	39
7	Coke-resistant (Pt+Ni)/ZSM-5 catalyst for shape-selective alkylation of toluene with methanol to para-xylene. <i>Chemical Engineering Science</i> , 2022, 252, 117529.	1.9	14
8	Coupling of LaFeO ₃ Plasma Catalysis and Cu ⁺ /Cu ⁰ Electrocatalysis for Direct Ammonia Synthesis from Air. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4816-4823.	1.8	9
9	Computational identification of facet-dependent CO ₂ initial activation and hydrogenation over iron carbide catalyst. <i>Journal of CO₂ Utilization</i> , 2022, 59, 101967.	3.3	10
10	Intermediate-induced repolymerization for constructing self-assembly architecture: Red crystalline carbon nitride nanosheets for notable hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121323.	10.8	15
11	Plastering Sponge with Nanocarbon-Containing Slurry to Construct Mechanically Robust Macroporous Monolithic Catalysts for Direct Dehydrogenation of Ethylbenzene. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	1
12	Nitrogen-rich porous polymeric carbon nitride with enhanced photocatalytic activity for synergistic removal of organic and heavy metal pollutants. <i>Environmental Science: Nano</i> , 2022, 9, 2388-2401.	2.2	6
13	Co-Promoted In ₂ O ₃ /ZrO ₂ Integrated with Ultrathin Nanosheet HZSM-5 as Efficient Catalysts for CO ₂ Hydrogenation to Gasoline. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6322-6332.	1.8	11
14	Elucidating the Active-Phase Evolution of Fe-Based Catalysts during Isobutane Dehydrogenation with and without CO ₂ in Feed Gas. <i>ACS Catalysis</i> , 2022, 12, 5930-5938.	5.5	10
15	Boosting the Production of Higher Alcohols from CO ₂ and H ₂ over Mn- and K-Modified Iron Carbide. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7266-7274.	1.8	4
16	Promoting Propane Dehydrogenation with CO ₂ over the PtFe Bimetallic Catalyst by Eliminating the Non-selective Fe(0) Phase. <i>ACS Catalysis</i> , 2022, 12, 6559-6569.	5.5	26
17	Crystallographic dependence of CO ₂ hydrogenation pathways over HCP-Co and FCC-Co catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121529.	10.8	24
18	Mechanistic Insight into the Promotional Effect of CO ₂ on Propane Aromatization over Zn/ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10483-10495.	1.8	8

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19	Unraveling the tunable selectivity on cobalt oxide and metallic cobalt sites for CO ₂ hydrogenation. <i>Chemical Engineering Journal</i> , 2022, 446, 137217.	6.6	13
20	Design of highly stable metal/ZSM-5 catalysts for the shape-selective alkylation of toluene with methanol to <i>p</i> -xylene. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3348-3358.	3.0	9
21	Effective adsorption of Ultra-dilute CO ₂ over Polyethyleneimine-based adsorbent for H ₂ purification. <i>Separation and Purification Technology</i> , 2022, 299, 121686.	3.9	3
22	Boosting light olefin selectivity in CO ₂ hydrogenation by adding Co to Fe catalysts within close proximity. <i>Catalysis Today</i> , 2021, 371, 142-149.	2.2	43
23	Insight into the role of Fe ₅ C ₂ in CO ₂ catalytic hydrogenation to hydrocarbons. <i>Catalysis Today</i> , 2021, 371, 162-170.	2.2	50
24	New insight into the mechanism of enhanced photo-Fenton reaction efficiency for Fe-doped semiconductors: A case study of Fe/g-C ₃ N ₄ . <i>Catalysis Today</i> , 2021, 371, 58-63.	2.2	36
25	Regenerable solid molecular basket sorbents for selective SO ₂ capture from CO ₂ -rich gas streams. <i>Catalysis Today</i> , 2021, 371, 231-239.	2.2	6
26	Deep removal of SO ₂ from cathode air over polyethylenimine-modified SBA-15 sorbents for fuel cells. <i>Catalysis Today</i> , 2021, 371, 240-246.	2.2	7
27	Adsorptive desulfurization of jet fuels over TiO ₂ -CeO ₂ mixed oxides: Role of surface Ti and Ce cations. <i>Catalysis Today</i> , 2021, 371, 265-275.	2.2	23
28	One-pot synthesis of the highly efficient bifunctional Ni-SAPO-11 catalyst. <i>Journal of Materials Science and Technology</i> , 2021, 76, 86-94.	5.6	20
29	Reaction-driven surface reconstruction of ZnAl ₂ O ₄ boosts the methanol selectivity in CO ₂ catalytic hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119700.	10.8	53
30	Cobalt oxide with flake-like morphology as efficient passive NO _x adsorber. <i>Catalysis Communications</i> , 2021, 149, 106203.	1.6	11
31	Stable Zn@ZSM-5 catalyst via a dry gel conversion process for methanol-to-aromatics reaction. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110696.	2.2	14
32	One-step plasma-enabled catalytic carbon dioxide hydrogenation to higher hydrocarbons: significance of catalyst-bed configuration. <i>Green Chemistry</i> , 2021, 23, 1642-1647.	4.6	23
33	CO ₂ Hydrogenation to Methanol over In ₂ O ₃ -Based Catalysts: From Mechanism to Catalyst Development. <i>ACS Catalysis</i> , 2021, 11, 1406-1423.	5.5	198
34	Catalytic Conversion of Carbon Dioxide to Methanol: Current Status and Future Perspective. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	36
35	Mechanistic Insight into the Hydrodeoxygenation of Hydroquinone over Au/TiO ₂ Catalyst. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6660-6672.	1.5	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. <i>Journal of Catalysis</i> , 2021, 403, 203-214.	3.1	14

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37	Facile Construction of a Hollow In ₂ S ₃ /Polymeric Carbon Nitride Heterojunction for Efficient Visible-Light-Driven CO ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 5942-5951.	3.2	37
38	Dynamic Evolution of Fe and Carbon Species over Different ZrO ₂ Supports during CO Prereduction and Their Effects on CO ₂ Hydrogenation to Light Olefins. ACS Sustainable Chemistry and Engineering, 2021, 9, 7891-7903.	3.2	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.	1.8	7
40	Influence of surfactant-assisted synthesis and different operational parameters on photocatalytic performance of Cu ₂ FeSnS ₄ particles. Surfaces and Interfaces, 2021, 24, 101134.	1.5	5
41	Selective Hydrogenation of CO ₂ to Hydrocarbons: Effects of Fe ₃ O ₄ Particle Size on Reduction, Carburization, and Catalytic Performance. Energy & Fuels, 2021, 35, 10703-10709.	2.5	27
42	Computational Insights into the Hydrodeoxygenation of Phenolic Compounds over Pt@Fe Catalysts. Journal of Physical Chemistry C, 2021, 125, 14239-14252.	1.5	4
43	Plasma-enhanced catalytic reduction of SO ₂ : Decoupling plasma-induced surface reaction from plasma-phase reaction. Applied Catalysis B: Environmental, 2021, 286, 119852.	10.8	12
44	Impacts of nano-scale pore structure and organic amine assembly in porous silica on the kinetics of CO ₂ adsorptive separation. Nano Research, 2021, 14, 3294-3302.	5.8	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.	2.2	6
46	Fabrication of Isolated VO _x Sites on Alumina for Highly Active and Stable Non-Oxidative Dehydrogenation. Journal of Physical Chemistry C, 2021, 125, 19229-19237.	1.5	6
47	Effects of the Pore Structure and Acid-Base Property of X Zeolites on Side-Chain Alkylation of Toluene with Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 14381-14396.	1.8	8
48	Bimetallic metal organic framework-templated synthesis of a Cu-ZnO/Al ₂ O ₃ catalyst with superior methanol selectivity for CO ₂ hydrogenation. Molecular Catalysis, 2021, 514, 111870.	1.0	19
49	Promoting propane dehydrogenation with CO ₂ over Ga ₂ O ₃ /SiO ₂ by eliminating Ga-hydrides. Chinese Journal of Catalysis, 2021, 42, 2225-2233.	6.9	13
50	CO ₂ 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, .	1.3	5
51	Self-Supporting 3D Carbon Nitride with Tunable n- π^* Electronic Transition for Enhanced Solar Hydrogen Production. Advanced Materials, 2021, 33, e2104361.	11.1	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.	4.0	14
53	Light-Enhanced Oxidative Adsorption Desulfurization of Diesel Fuel over TiO ₂ @ZrO ₂ Mixed Oxides. Energy & Fuels, 2021, 35, 17512-17521.	2.5	6
54	Concurrent Manipulation of Out-of-Plane and Regional In-Plane Orientations of NH ₂ -UiO-66 Membranes with Significantly Reduced Anisotropic Grain Boundary and Superior H ₂ /CO ₂ Separation Performance. ACS Applied Materials & Interfaces, 2020, 12, 4494-4500.	4.0	50

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55	Variation in the In ₂ O ₃ Crystal Phase Alters Catalytic Performance toward the Reverse Water Gas Shift Reaction. ACS Catalysis, 2020, 10, 3264-3273.	5.5	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.	2.1	7
57	Microstructural optimization of NH ₂ -MIL-125 membranes with superior H ₂ /CO ₂ separation performance by innovating metal sources and heating modes. Journal of Membrane Science, 2020, 616, 118615.	4.1	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.	5.1	13
59	Role of Recrystallization in Alkaline Treatment on the Catalytic Activity of 1-Butene Epoxidation. ChemCatChem, 2020, 12, 6196-6204.	1.8	6
60	Mechanistic understanding of ethane dehydrogenation and aromatization over Zn/ZSM-5: effects of Zn modification and CO ₂ co-reactant. Catalysis Science and Technology, 2020, 10, 8359-8373.	2.1	17
61	Plasma-assisted catalytic reduction of SO ₂ to elemental sulfur: Influence of nonthermal plasma and temperature on iron sulfide catalyst. Journal of Catalysis, 2020, 391, 260-272.	3.1	21
62	Effect of surface structure and Pd doping of Fe catalysts on the selective hydrodeoxygenation of phenol. Catalysis Today, 2020, 371, 189-189.	2.2	12
63	Recent progress in synthesis and application of zeolite-encapsulated metal catalysts. Advances in Catalysis, 2020, 67, 91-133.	0.1	6
64	Adsorptive desulfurization of thiophene over Ti _{0.9} Ce _{0.1} O ₂ mixed oxide: A mechanistic study on the basis of XPS, in-situ FT-IR and TPD characterizations. Catalysis Today, 2020, , .	2.2	6
65	Hydrogen sulfide removal from biogas on ZIF-derived nitrogen-doped carbons. Catalysis Today, 2020, 371, 221-221.	2.2	4
66	Influence of Loading a Tertiary Amine on Activated Carbons and Effect of CO ₂ on Adsorptive H ₂ S Removal from Biogas. ACS Sustainable Chemistry and Engineering, 2020, 8, 9998-10008.	3.2	13
67	CO ₂ hydrogenation to methanol over bimetallic Pd-Cu catalysts supported on TiO ₂ -CeO ₂ and TiO ₂ -ZrO ₂ . Catalysis Today, 2020, 371, 150-150.	2.2	17
68	Deconvolution of the Particle Size Effect on CO ₂ Hydrogenation over Iron-Based Catalysts. ACS Catalysis, 2020, 10, 7424-7433.	5.5	108
69	New Approach to Enhance CO ₂ Capture of "Molecular Basket" Sorbent by Using 3-Aminopropyltriethoxysilane to Reshape Fumed Silica Support. Industrial & Engineering Chemistry Research, 2020, 59, 7267-7273.	1.8	15
70	Computational and experimental identification of strong synergy of the Fe/ZnO catalyst in promoting acetic acid synthesis from CH ₄ and CO ₂ . Chemical Communications, 2020, 56, 3983-3986.	2.2	27
71	A combined experimental and DFT study of H ₂ O effect on In ₂ O ₃ /ZrO ₂ catalyst for CO ₂ hydrogenation to methanol. Journal of Catalysis, 2020, 383, 283-296.	3.1	73
72	Enhanced kinetics for CO ₂ sorption in amine-functionalized mesoporous silica nanosphere with inverted cone-shaped pore structure. Applied Energy, 2020, 264, 114637.	5.1	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. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2018-2025.	2.5	28
74	Recent Advances in Carbon Dioxide Hydrogenation to Methanol via Heterogeneous Catalysis. <i>Chemical Reviews</i> , 2020, 120, 7984-8034.	23.0	825
75	Solar-driven CO ₂ conversion over Co ²⁺ doped 0D/2D TiO ₂ /g-C ₃ N ₄ heterostructure: Insights into the role of Co ²⁺ and cocatalyst. <i>Journal of CO₂ Utilization</i> , 2020, 38, 16-23.	3.3	49
76	One-Step Low-Temperature Reduction of Sulfur Dioxide to Elemental Sulfur by Plasma-Enhanced Catalysis. <i>ACS Catalysis</i> , 2020, 10, 5272-5277.	5.5	22
77	Hydrodeoxygenation of Guaiacol Catalyzed by ZrO ₂ –CeO ₂ -Supported Nickel Catalysts with High Loading. <i>Energy & Fuels</i> , 2020, 34, 4685-4692.	2.5	21
78	A facile sulfur-assisted method to synthesize porous alveolate Fe/g-C ₃ N ₄ catalysts with ultra-small cluster and atomically dispersed Fe sites. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1198-1207.	6.9	37
79	Synthesis and Characterization of Fe-Substituted ZSM-5 Zeolite and Its Catalytic Performance for Alkylation of Benzene with Dilute Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22413-22421.	1.8	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. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	165
83	Reaction mechanism of toluene <i>tert</i> -butylation with <i>tert</i> -butyl alcohol over H- β and H-MOR zeolite: a QM/MM study. <i>Scientia Sinica Chimica</i> , 2020, 50, 384-392.	0.2	0
84	The template-assisted zinc ion incorporation in SAPO-34 and the enhanced ethylene selectivity in MTO reaction. <i>Journal of Energy Chemistry</i> , 2019, 32, 174-181.	7.1	21
85	Mechanistic Insight into Propylene Epoxidation with H ₂ O ₂ over Titanium Silicalite-1: Effects of Zeolite Confinement and Solvent. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7410-7423.	1.2	21
86	Effects of supports on bimetallic Pd-Cu catalysts for CO ₂ hydrogenation to methanol. <i>Applied Catalysis A: General</i> , 2019, 585, 117210.	2.2	65
87	High-Loading Nickel Phosphide Catalysts Supported on SiO ₂ –TiO ₂ for Hydrodeoxygenation of Guaiacol. <i>Energy & Fuels</i> , 2019, 33, 7696-7704.	2.5	28
88	Capture of CO ₂ from Concentrated Sources and the Atmosphere. , 2019, , 35-72.		4
89	Use of CO ₂ as Source of Carbon for Energy-Rich C _n Products. , 2019, , 211-238.		1
90	Capsule-Structured Copper–Zinc Catalyst for Highly Efficient Hydrogenation of Carbon Dioxide to Methanol. <i>ChemSusChem</i> , 2019, 12, 4904-4904.	3.6	0

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91	Capsule-Structured Copper-Zinc Catalyst for Highly Efficient Hydrogenation of Carbon Dioxide to Methanol. <i>ChemSusChem</i> , 2019, 12, 4916-4926.	3.6	17
92	Discovering Inherent Characteristics of Polyethylenimine-Functionalized Porous Materials for CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36515-36524.	4.0	31
93	Defects Promote Ultrafast Charge Separation in Graphitic Carbon Nitride for Enhanced Visible-Light-Driven CO ₂ Reduction Activity. <i>Chemistry - A European Journal</i> , 2019, 25, 5028-5035.	1.7	85
94	Organic acid-assisted preparation of highly dispersed Co/ZrO ₂ catalysts with superior activity for CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 531-540.	10.8	122
95	Defect-Enriched N,O-Codoped Nanodiamond/Carbon Nanotube Catalysts for Styrene Production via Dehydrogenation of Ethylbenzene. <i>ACS Applied Nano Materials</i> , 2019, 2, 2152-2159.	2.4	18
96	Controllable assembly of single/double-thin-shell g-C ₃ N ₄ vesicles via a shape-selective solid-state templating method for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17815-17822.	5.2	33
97	Tuning the product selectivity of SAPO-18 catalysts in MTO reaction via cavity modification. <i>Chinese Journal of Catalysis</i> , 2019, 40, 477-485.	6.9	14
98	Cr-doped ZnS semiconductor catalyst with high catalytic activity for hydrogen production from hydrogen sulfide in non-thermal plasma. <i>Catalysis Today</i> , 2019, 337, 83-89.	2.2	30
99	Overcoating the Surface of Fe-Based Catalyst with ZnO and Nitrogen-Doped Carbon toward High Selectivity of Light Olefins in CO ₂ Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4017-4023.	1.8	35
100	CO ₂ Hydrogenation on Unpromoted and M-Promoted Co/TiO ₂ Catalysts (M = Tj ETQq0 0 0 rgBT /Overlock 1 Distribution. <i>ACS Catalysis</i> , 2019, 9, 2739-2751.	5.5	130
101	Recent advances in catalytic CO ₂ hydrogenation to alcohols and hydrocarbons. <i>Advances in Catalysis</i> , 2019, , 121-233.	0.1	27
102	Single Atomic Cu-N ₂ Catalytic Sites for Highly Active and Selective Hydroxylation of Benzene to Phenol. <i>IScience</i> , 2019, 22, 97-108.	1.9	52
103	CO ₂ hydrogenation to methanol on Pd Cu bimetallic catalysts with lower metal loadings. <i>Catalysis Communications</i> , 2019, 118, 10-14.	1.6	45
104	Comparative computational study of CO ₂ dissociation and hydrogenation over Fe-M (M = Pd, Ni, Co) bimetallic catalysts: The effect of surface metal content. <i>Journal of CO₂ Utilization</i> , 2019, 29, 179-195.	3.3	17
105	Utilization of CO ₂ for aromatics production over ZnO/ZrO ₂ -ZSM-5 tandem catalyst. <i>Journal of CO₂ Utilization</i> , 2019, 29, 140-145.	3.3	96
106	Origin of Pd-Cu bimetallic effect for synergetic promotion of methanol formation from CO ₂ hydrogenation. <i>Journal of Catalysis</i> , 2019, 369, 21-32.	3.1	80
107	Facile and green synthesis of TiN/C as electrode materials for supercapacitors. <i>Applied Surface Science</i> , 2019, 470, 241-249.	3.1	22
108	Hydrodeoxygenation of Guaiacol Catalyzed by High-Loading Ni Catalysts Supported on SiO ₂ -TiO ₂ Binary Oxides. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1513-1524.	1.8	55

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109	Visible-light-initiated one-pot clean synthesis of nitron from nitrobenzene and benzyl alcohol over CdS photocatalyst. <i>Journal of Catalysis</i> , 2019, 370, 97-106.	3.1	20
110	Influence of Diffusion and Acid Properties on Methane and Propane Selectivity in Methanol-to-Olefins Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1896-1905.	1.8	22
111	Interfacial charge transfer in OD/2D defect-rich heterostructures for efficient solar-driven CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 760-769.	10.8	118
112	A short review of recent advances in CO ₂ hydrogenation to hydrocarbons over heterogeneous catalysts. <i>RSC Advances</i> , 2018, 8, 7651-7669.	1.7	499
113	CO ₂ hydrogenation to methanol on Pd-Cu bimetallic catalysts: H ₂ /CO ₂ ratio dependence and surface species. <i>Catalysis Today</i> , 2018, 316, 62-70.	2.2	52
114	Fe-Cu Bimetallic Catalysts for Selective CO ₂ Hydrogenation to Olefin-Rich C ₂ + Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4535-4542.	1.8	88
115	Mechanistic Understanding of Alloy Effect and Water Promotion for Pd-Cu Bimetallic Catalysts in CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2018, 8, 4873-4892.	5.5	171
116	Effect of titanium ester on synthesizing NH ₂ -MIL-125(Ti): Morphology changes from circular plate to octahedron and rhombic dodecahedron. <i>Journal of Solid State Chemistry</i> , 2018, 262, 237-243.	1.4	28
117	Increasing the selectivity to ethylene in the MTO reaction by enhancing diffusion limitation in the shell layer of SAPO-34 catalyst. <i>Chemical Communications</i> , 2018, 54, 3146-3149.	2.2	49
118	Al ₂ O ₃ and CeO ₂ -promoted MgO sorbents for CO ₂ capture at moderate temperatures. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 83-93.	2.3	30
119	Mesoporous/Microporous Titanium Silicalite with Controllable Pore Diameter for Cyclohexene Epoxidation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 512-520.	1.8	38
120	DFT insight into the support effect on the adsorption and activation of key species over Co catalysts for CO ₂ methanation. <i>Journal of CO₂ Utilization</i> , 2018, 24, 99-111.	3.3	36
121	Two-dimensional transition metal dichalcogenides as metal sources of metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 3664-3667.	2.2	12
122	Pyrolyzing ZIF-8 to N-doped porous carbon facilitated by iron and potassium for CO ₂ hydrogenation to value-added hydrocarbons. <i>Journal of CO₂ Utilization</i> , 2018, 25, 120-127.	3.3	67
123	Fe-based bimetallic catalysts supported on TiO ₂ for selective CO ₂ hydrogenation to hydrocarbons. <i>Journal of CO₂ Utilization</i> , 2018, 25, 330-337.	3.3	63
124	Hydrogenation of levulinic acid into gamma-valerolactone over in situ reduced CuAg bimetallic catalyst: Strategy and mechanism of preventing Cu leaching. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 1-10.	10.8	95
125	Fluoride-mediated nano-sized high-silica ZSM-5 as an ultrastable catalyst for methanol conversion to propylene. <i>Journal of Energy Chemistry</i> , 2018, 27, 1225-1230.	7.1	28
126	ZrO ₂ support imparts superior activity and stability of Co catalysts for CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 397-408.	10.8	265

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127	The anti-sintering catalysts: Fe-Co-Zr polymetallic fibers for CO ₂ hydrogenation to C ₂ =C ₄ -rich hydrocarbons. Journal of CO ₂ Utilization, 2018, 23, 219-225.	3.3	54
128	Advances in the synthesis and catalysis of solid and hollow zeolite-encapsulated metal catalysts. Advances in Catalysis, 2018, 63, 75-115.	0.1	8
129	Preassembly Strategy To Fabricate Porous Hollow Carbonitride Spheres Inlaid with Single Cu ₃ N Sites for Selective Oxidation of Benzene to Phenol. Journal of the American Chemical Society, 2018, 140, 16936-16940.	6.6	156
130	In-Plane Epitaxial Growth of Highly Oriented NH ₂ -MIL-125(Ti) Membranes with Superior H ₂ /CO ₂ Selectivity. Angewandte Chemie, 2018, 130, 16320-16325.	1.6	44
131	In-Plane Epitaxial Growth of Highly Oriented NH ₂ -MIL-125(Ti) Membranes with Superior H ₂ /CO ₂ Selectivity. Angewandte Chemie - International Edition, 2018, 57, 16088-16093.	7.2	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.	6.9	29
133	High-Density Ultra-small Clusters and Single-Atom Fe Sites Embedded in Graphitic Carbon Nitride (g-C ₃ N ₄) for Highly Efficient Catalytic Advanced Oxidation Processes. ACS Nano, 2018, 12, 9441-9450.	7.3	455
134	Promoting effect of cyano groups attached on g-C ₃ N ₄ nanosheets towards molecular oxygen activation for visible light-driven aerobic coupling of amines to imines. Journal of Catalysis, 2018, 366, 237-244.	3.1	68
135	Reconstructing Supramolecular Aggregates to Nitrogen-Deficient g-C ₃ N ₄ Bunchy Tubes with Enhanced Photocatalysis for H ₂ Production. ACS Applied Materials & Interfaces, 2018, 10, 18746-18753.	4.0	97
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