Chunshan Song

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An overview of new approaches to deep desulfurization for ultra-clean gasoline, diesel fuel and jet fuel. Catalysis Today, 2003, 86, 211-263.	4.4	1,790
2	Global challenges and strategies for control, conversion and utilization of CO2 for sustainable development involving energy, catalysis, adsorption and chemical processing. Catalysis Today, 2006, 115, 2-32.	4.4	1,545
3	Fuel processing for low-temperature and high-temperature fuel cells Challenges, and opportunities for sustainable development in the 21st century. Catalysis Today, 2002, 77, 17-49.	4.4	1,050
4	New design approaches to ultra-clean diesel fuels by deep desulfurization and deep dearomatization. Applied Catalysis B: Environmental, 2003, 41, 207-238.	20.2	1,011
5	Novel Polyethylenimine-Modified Mesoporous Molecular Sieve of MCM-41 Type as High-Capacity Adsorbent for CO2Capture. Energy & Fuels, 2002, 16, 1463-1469.	5.1	953
6	Recent Advances in Carbon Dioxide Hydrogenation to Methanol via Heterogeneous Catalysis. Chemical Reviews, 2020, 120, 7984-8034.	47.7	825
7	Preparation and characterization of novel CO2 "molecular basket―adsorbents based on polymer-modified mesoporous molecular sieve MCM-41. Microporous and Mesoporous Materials, 2003, 62, 29-45.	4.4	694
8	Ultra-deep desulfurization and denitrogenation of diesel fuel by selective adsorption over three different adsorbents: A study on adsorptive selectivity and mechanism. Catalysis Today, 2006, 111, 74-83.	4.4	535
9	A short review of recent advances in CO ₂ hydrogenation to hydrocarbons over heterogeneous catalysts. RSC Advances, 2018, 8, 7651-7669.	3.6	499
10	"Molecular Basket―Sorbents for Separation of CO ₂ and H ₂ S from Various Gas Streams. Journal of the American Chemical Society, 2009, 131, 5777-5783.	13.7	497
11	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.	14.6	455
12	A new approach to deep desulfurization of gasoline, diesel fuel and jet fuel by selective adsorption for ultra-clean fuels and for fuel cell applications. Catalysis Today, 2002, 77, 107-116.	4.4	387
13	Tri-reforming of methane: a novel concept for catalytic production of industrially useful synthesis gas with desired H2/CO ratios. Catalysis Today, 2004, 98, 463-484.	4.4	386
14	Selective Adsorption for Removing Sulfur from Jet Fuel over Zeolite-Based Adsorbents. Industrial & Engineering Chemistry Research, 2003, 42, 5293-5304.	3.7	376
15	Chemicals and materials from coal in the 21st century. Fuel, 2002, 81, 15-32.	6.4	344
16	Influence of Moisture on CO2Separation from Gas Mixture by a Nanoporous Adsorbent Based on Polyethylenimine-Modified Molecular Sieve MCM-41. Industrial & Engineering Chemistry Research, 2005, 44, 8113-8119.	3.7	344
17	Infrared Study of CO ₂ Sorption over "Molecular Basket―Sorbent Consisting of Polyethylenimine-Modified Mesoporous Molecular Sieve. Journal of Physical Chemistry C, 2009, 113, 7260-7268.	3.1	330
18	Characterization of Structural and Surface Properties of Nanocrystalline TiO ₂ â^`CeO ₂ Mixed Oxides by XRD, XPS, TPR, and TPD. Journal of Physical Chemistry C, 2009, 113, 14249-14257.	3.1	323

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19	Clean liquid fuels from direct coal liquefaction: chemistry, catalysis, technological status and challenges. Energy and Environmental Science, 2011, 4, 311-345.	30.8	305
20	Bimetallic Pd–Cu catalysts for selective CO2 hydrogenation to methanol. Applied Catalysis B: Environmental, 2015, 170-171, 173-185.	20.2	295
21	Adsorption separation of carbon dioxide from flue gas of natural gas-fired boiler by a novel nanoporous "molecular basket―adsorbent. Fuel Processing Technology, 2005, 86, 1457-1472.	7.2	278
22	ZrO2 support imparts superior activity and stability of Co catalysts for CO2 methanation. Applied Catalysis B: Environmental, 2018, 220, 397-408.	20.2	265
23	Effects of nanocrystalline CeO2 supports on the properties and performance of Ni–Rh bimetallic catalyst for oxidative steam reforming of ethanol. Journal of Catalysis, 2006, 238, 430-440.	6.2	252
24	Deep desulfurization of gasoline by selective adsorption over solid adsorbents and impact of analytical methods on ppm-level sulfur quantification for fuel cell applications. Applied Catalysis B: Environmental, 2005, 56, 137-147.	20.2	247
25	Size- and morphology-controlled NH2-MIL-53(Al) prepared in DMF–water mixed solvents. Dalton Transactions, 2013, 42, 13698.	3.3	221
26	Facile synthesis of morphology and size-controlled zirconium metal–organic framework UiO-66: the role of hydrofluoric acid in crystallization. CrystEngComm, 2015, 17, 6434-6440.	2.6	200
27	Liquid-Phase Adsorption of Multi-Ring Thiophenic Sulfur Compounds on Carbon Materials with Different Surface Properties. Journal of Physical Chemistry B, 2006, 110, 4699-4707.	2.6	198
28	CO ₂ Hydrogenation to Methanol over In ₂ O ₃ -Based Catalysts: From Mechanism to Catalyst Development. ACS Catalysis, 2021, 11, 1406-1423.	11.2	198
29	Influence of preparation method on performance of Cu/Zn-based catalysts for low-temperature steam reforming and oxidative steam reforming of methanol for H2 production for fuel cells. Catalysis Today, 2002, 77, 89-98.	4.4	193
30	Facile synthesis of size-controlled MIL-100(Fe) with excellent adsorption capacity for methylene blue. Chemical Engineering Journal, 2015, 281, 360-367.	12.7	189
31	Solvothermal synthesis of NH ₂ -MIL-125(Ti) from circular plate to octahedron. CrystEngComm, 2014, 16, 9645-9650.	2.6	187
32	Light olefin synthesis from CO2 hydrogenation over K-promoted Fe–Co bimetallic catalysts. Catalysis Today, 2015, 251, 34-40.	4.4	175
33	Mechanistic Understanding of Alloy Effect and Water Promotion for Pd-Cu Bimetallic Catalysts in CO ₂ Hydrogenation to Methanol. ACS Catalysis, 2018, 8, 4873-4892.	11.2	171
34	Synthesis of mesoporous molecular sieves: influence of aluminum source on Al incorporation in MCM-41. Catalysis Letters, 1996, 36, 103-109.	2.6	166
35	Low-temperature reforming of ethanol over CeO2-supported Ni-Rh bimetallic catalysts for hydrogen production. Catalysis Letters, 2005, 101, 255-264.	2.6	166
36	Carbon Capture From Flue Gas and the Atmosphere: A Perspective. Frontiers in Energy Research, 2020, 8, .	2.3	165

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37	Low-Temperature H2S Removal from Steam-Containing Gas Mixtures with ZnO for Fuel Cell Application. 1. ZnO Particles and Extrudates. Energy & Fuels, 2004, 18, 576-583.	5.1	164
38	Bimetallic Fe–Co catalysts for CO2 hydrogenation to higher hydrocarbons. Journal of CO2 Utilization, 2013, 3-4, 102-106.	6.8	161
39	Highly active MoS2, CoMoS2 and NiMoS2 unsupported catalysts prepared by hydrothermal synthesis for hydrodesulfurization of 4,6-dimethyldibenzothiophene. Catalysis Today, 2008, 130, 14-23.	4.4	160
40	Synthesis of Hollow Nanocubes and Macroporous Monoliths of Silicalite-1 by Alkaline Treatment. Chemistry of Materials, 2013, 25, 4197-4205.	6.7	156
41	Preassembly Strategy To Fabricate Porous Hollow Carbonitride Spheres Inlaid with Single Cu–N ₃ Sites for Selective Oxidation of Benzene to Phenol. Journal of the American Chemical Society, 2018, 140, 16936-16940.	13.7	156
42	Low-temperature steam reforming of jet fuel in the absence and presence of sulfur over Rh and Rh–Ni catalysts for fuel cells. Journal of Catalysis, 2006, 238, 309-320.	6.2	155
43	Molecular basket sorbents polyethylenimine–SBA-15 for CO2 capture from flue gas: Characterization and sorption properties. Microporous and Mesoporous Materials, 2013, 169, 103-111.	4.4	152
44	A novel method for oxidative desulfurization of liquid hydrocarbon fuels based on catalytic oxidation using molecular oxygen coupled with selective adsorption. Catalysis Today, 2007, 123, 276-284.	4.4	151
45	Hollow zeolite encapsulated Ni–Pt bimetals for sintering and coking resistant dry reforming of methane. Journal of Materials Chemistry A, 2015, 3, 16461-16468.	10.3	148
46	Mesoporous-molecular-sieve-supported nickel sorbents for adsorptive desulfurization of commercial ultra-low-sulfur diesel fuel. Applied Catalysis B: Environmental, 2011, 101, 718-726.	20.2	147
47	Hollow ZSMâ€5 with Siliconâ€Rich Surface, Double Shells, and Functionalized Interior with Metallic Nanoparticles and Carbon Nanotubes. Advanced Functional Materials, 2015, 25, 7479-7487.	14.9	145
48	Deep Desulfurization of Gasoline by Selective Adsorption over Nickel-Based Adsorbent for Fuel Cell Applications. Industrial & Engineering Chemistry Research, 2005, 44, 5768-5775.	3.7	144
49	Effects of oxidative modification of carbon surface on the adsorption of sulfur compounds in diesel fuel. Applied Catalysis B: Environmental, 2009, 87, 190-199.	20.2	142
50	Maximizing the number of oxygen-containing functional groups on activated carbon by using ammonium persulfate and improving the temperature-programmed desorption characterization of carbon surface chemistry. Carbon, 2011, 49, 5002-5013.	10.3	141
51	Characterization of CeO2-supported Cu–Pd bimetallic catalyst for the oxygen-assisted water–gas shift reaction. Journal of Catalysis, 2008, 260, 358-370.	6.2	138
52	Mesoporous molecular sieve MCM-41 supported Co–Mo catalyst for hydrodesulfurization of dibenzothiophene in distillate fuels. Applied Catalysis A: General, 1999, 176, 1-10.	4.3	136
53	Selective Adsorption for Removal of Nitrogen Compounds from Liquid Hydrocarbon Streams over Carbon- and Alumina-Based Adsorbents. Industrial & Engineering Chemistry Research, 2009, 48, 951-960.	3.7	136
54	Development of a new clay supported polyethylenimine composite for CO2 capture. Applied Energy, 2014, 113, 334-341.	10.1	133

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55	Synthesis of Fe/M (M = Mn, Co, Ni) bimetallic metal organic frameworks and their catalytic activity for phenol degradation under mild conditions. Inorganic Chemistry Frontiers, 2017, 4, 144-153.	6.0	131
56	CO ₂ Hydrogenation on Unpromoted and M-Promoted Co/TiO ₂ Catalysts (M =) Tj ETQ Distribution. ACS Catalysis, 2019, 9, 2739-2751.	q0 0 0 rgB 11.2	T /Overlock 1 130
57	Inâ€Plane Epitaxial Growth of Highly <i>c</i> â€Oriented NH ₂ â€MILâ€125(Ti) Membranes with Superior H ₂ /CO ₂ Selectivity. Angewandte Chemie - International Edition, 2018, 57, 16088-16093.	13.8	125
58	Effects of Aromatics, Diesel Additives, Nitrogen Compounds, and Moisture on Adsorptive Desulfurization of Diesel Fuel over Activated Carbon. Industrial & Engineering Chemistry Research, 2012, 51, 3436-3443.	3.7	124
59	Low Temperature CO ₂ Methanation: ZIF-67-Derived Co-Based Porous Carbon Catalysts with Controlled Crystal Morphology and Size. ACS Sustainable Chemistry and Engineering, 2017, 5, 7824-7831.	6.7	123
60	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
61	Microwave-assisted hydrothermal synthesis of hydroxy-sodalite zeolite membrane. Microporous and Mesoporous Materials, 2004, 75, 173-181.	4.4	119
62	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
63	Recent advances of the nano-hierarchical SAPO-34 in the methanol-to-olefin (MTO) reaction and other applications. Catalysis Science and Technology, 2017, 7, 4905-4923.	4.1	115
64	Role of Surface Oxygen-Containing Functional Groups in Liquid-Phase Adsorption of Nitrogen Compounds on Carbon-Based Adsorbents. Energy & Fuels, 2009, 23, 3940-3947.	5.1	114
65	Synthesis of mesoporous zeolites and their application for catalytic conversion of polycyclic aromatic hydrocarbons. Catalysis Today, 1996, 31, 137-144.	4.4	112
66	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.	11.2	112
67	Deconvolution of the Particle Size Effect on CO ₂ Hydrogenation over Iron-Based Catalysts. ACS Catalysis, 2020, 10, 7424-7433.	11.2	108
68	A solid molecular basket sorbent for CO ₂ capture from gas streams with low CO ₂ concentration under ambient conditions. Physical Chemistry Chemical Physics, 2012, 14, 1485-1492.	2.8	107
69	Opportunities for developing specialty chemicals and advanced materials from coals. Fuel Processing Technology, 1993, 34, 157-196.	7.2	106
70	Adsorptive Removal of Organic Sulfur Compounds from Jet Fuel over K-Exchanged NiY Zeolites Prepared by Impregnation and Ion Exchange. Industrial & Engineering Chemistry Research, 2005, 44, 5740-5749.	3.7	106
71	Selfâ€Supporting 3D Carbon Nitride with Tunable n → Ï€* Electronic Transition for Enhanced Solar Hydrogen Production. Advanced Materials, 2021, 33, e2104361.	21.0	105
72	Pyrolytic degradation studies of a coal-derived and a petroleum-derived aviation jet fuel. Energy & Fuels, 1993, 7, 234-243.	5.1	102

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73	Development of Carbon-Based "Molecular Basket―Sorbent for CO ₂ Capture. Industrial & Engineering Chemistry Research, 2012, 51, 3048-3057.	3.7	100
74	Fe-MOF-derived highly active catalysts for carbon dioxide hydrogenation to valuable hydrocarbons. Journal of CO2 Utilization, 2017, 21, 100-107.	6.8	100
75	Noble metal catalysts for low-temperature naphthalene hydrogenation in the presence of benzothiophene. Catalysis Today, 1996, 31, 93-104.	4.4	99
76	Magnetic ordered mesoporous Fe 3 O 4 /CeO 2 composites with synergy of adsorption and Fenton catalysis. Applied Surface Science, 2017, 425, 526-534.	6.1	98
77	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.	8.0	97
78	In situ synthesis of titanium doped hybrid metal–organic framework UiO-66 with enhanced adsorption capacity for organic dyes. Inorganic Chemistry Frontiers, 2017, 4, 1870-1880.	6.0	96
79	Utilization of CO2 for aromatics production over ZnO/ZrO2-ZSM-5 tandem catalyst. Journal of CO2 Utilization, 2019, 29, 140-145.	6.8	96
80	Desulfurization of JP-8 Jet Fuel by Selective Adsorption over a Ni-based Adsorbent for Micro Solid Oxide Fuel Cells. Energy & Fuels, 2005, 19, 1116-1125.	5.1	95
81	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
82	Selective CO ₂ Hydrogenation to Hydrocarbons on Cu-Promoted Fe-Based Catalysts: Dependence on Cu–Fe Interaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 10182-10190.	6.7	95
83	MCM-41-supported Co-Mo catalysts for deep hydrodesulfurization of light cycle oil. Catalysis Today, 2003, 86, 129-140.	4.4	94
84	Temperature-programmed desorption of CO2 from polyethylenimine-loaded SBA-15 as molecular basket sorbents. Catalysis Today, 2012, 194, 44-52.	4.4	93
85	Oxygen-enhanced water gas shift on ceria-supported Pd–Cu and Pt–Cu bimetallic catalysts. Journal of Catalysis, 2011, 277, 46-53.	6.2	92
86	Dynamic structural evolution of iron catalysts involving competitive oxidation and carburization during CO ₂ hydrogenation. Science Advances, 2022, 8, eabm3629.	10.3	92
87	Mechanistic Insight into C–C Coupling over Fe–Cu Bimetallic Catalysts in CO ₂ Hydrogenation. Journal of Physical Chemistry C, 2017, 121, 13164-13174.	3.1	91
88	A novel approach for ultraâ€deep adsorptive desulfurization of diesel fuel over TiO ₂ –CeO ₂ /MCMâ€48 under ambient conditions. AICHE Journal, 2013, 59, 1441-1445.	3.6	88
89	Hollow Alveolus-Like Nanovesicle Assembly with Metal-Encapsulated Hollow Zeolite Nanocrystals. ACS Nano, 2016, 10, 7401-7408.	14.6	88
90	Fe–Cu Bimetallic Catalysts for Selective CO ₂ Hydrogenation to Olefin-Rich C ₂ ⁺ Hydrocarbons. Industrial & Engineering Chemistry Research, 2018, 57, 4535-4542.	3.7	88

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91	Mesoporous molecular sieve MCM-41 supported Co–Mo catalyst for hydrodesulfurization of petroleum resids. Catalysis Today, 1998, 43, 261-272.	4.4	87
92	Influence of ceria and nickel addition to alumina-supported Rh catalyst for propane steam reforming at low temperatures. Applied Catalysis A: General, 2009, 357, 213-222.	4.3	87
93	Effects of mesoporous silica supports and alkaline promoters on activity of Pd catalysts in CO2 hydrogenation for methanol synthesis. Catalysis Today, 2012, 194, 16-24.	4.4	87
94	A nanoporous polymeric sorbent for deep removal of H2S from gas mixtures for hydrogen purification. Green Chemistry, 2007, 9, 695.	9.0	86
95	Mesoporous-molecular-sieve-supported Polymer Sorbents for Removing H2S from Hydrogen Gas Streams. Topics in Catalysis, 2008, 49, 108-117.	2.8	85
96	Defects Promote Ultrafast Charge Separation in Graphitic Carbon Nitride for Enhanced Visibleâ€Lightâ€Driven CO ₂ Reduction Activity. Chemistry - A European Journal, 2019, 25, 5028-5035.	3.3	85
97	Influence of nitrogen compounds on deep hydrodesulfurization of 4,6-dimethyldibenzothiophene over Al2O3- and MCM-41-supported Co-Mo sulfide catalysts. Catalysis Today, 2003, 86, 265-275.	4.4	84
98	Development of silicaâ€gelâ€supported polyethylenimine sorbents for CO ₂ capture from flue gas. AICHE Journal, 2012, 58, 2495-2502.	3.6	84
99	Interconnected Hierarchical ZSM-5 with Tunable Acidity Prepared by a Dealumination–Realumination Process: A Superior MTP Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 26096-26106.	8.0	84
100	Tri-reforming of Methane over Ni Catalysts for CO2 Conversion to Syngas With Desired H2/CO Ratios Using Flue Gas of Power Plants Without CO2 Separation. Studies in Surface Science and Catalysis, 2004, 153, 315-322.	1.5	83
101	Kinetics of Two Pathways for 4,6-Dimethyldibenzothiophene Hydrodesulfurization over NiMo, CoMo Sulfide, and Nickel Phosphide Catalysts. Energy & Fuels, 2005, 19, 353-364.	5.1	82
102	Hydrothermally stable MOFs for CO 2 hydrogenation over iron-based catalyst to light olefins. Journal of CO2 Utilization, 2016, 15, 89-95.	6.8	82
103	Comparative Study on CO2 Hydrogenation to Higher Hydrocarbons over Fe-Based Bimetallic Catalysts. Topics in Catalysis, 2014, 57, 588-594.	2.8	81
104	Effect of Pt on stability of nano-scale ZSM-5 catalyst for toluene alkylation with methanol into p-xylene. Catalysis Today, 2011, 160, 179-183.	4.4	80
105	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
106	Zeolite-Supported Pd and Pt Catalysts for Low-Temperature Hydrogenation of Naphthalene in the Absence and Presence of Benzothiophene. Energy & Fuels, 1997, 11, 656-661.	5.1	79
107	Effective Hydrolysis of Cellulose into Glucose over Sulfonated Sugar-Derived Carbon in an Ionic Liquid. Industrial & Engineering Chemistry Research, 2013, 52, 8167-8173.	3.7	77
108	CO ₂ Hydrogenation to Hydrocarbons over Iron-based Catalyst: Effects of Physicochemical Properties of Al ₂ O ₃ Supports. Industrial & Engineering Chemistry Research, 2014, 53, 17563-17569.	3.7	76

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109	Shape-selective hydrogenation of naphthalene over zeolite-supported Pt and Pd catalysts. Catalysis Today, 1996, 31, 45-56.	4.4	75
110	Sulfuric Acid Modified Bentonite as the Support of Tetraethylenepentamine for CO ₂ Capture. Energy & Fuels, 2013, 27, 1538-1546.	5.1	75
111	Temperature-programmed retention indices for g.c. and g.cm.s. analysis of coal- and petroleum-derived liquid fuels. Fuel, 1995, 74, 1436-1451.	6.4	73
112	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
113	Shape-selective alkylation of naphthalene with isopropanol over mordenite catalysts. Microporous Materials, 1994, 2, 467-476.	1.6	72
114	Facile preparation of magnetic mesoporous Fe3O4/C/Cu composites as high performance Fenton-like catalysts. Applied Surface Science, 2017, 396, 1383-1392.	6.1	72
115	Oxidative Desulfurization of Jet and Diesel Fuels Using Hydroperoxide Generated in Situ by Catalytic Air Oxidation. Industrial & Engineering Chemistry Research, 2010, 49, 5561-5568.	3.7	71
116	High-Capacity and Low-Cost Carbon-Based "Molecular Basket―Sorbent for CO ₂ Capture from Flue Gas. Energy & Fuels, 2011, 25, 456-458.	5.1	71
117	C2–C4 light olefins from bioethanol catalyzed by Ce-modified nanocrystalline HZSM-5 zeolite catalysts. Applied Catalysis B: Environmental, 2011, 107, 68-76.	20.2	69
118	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
119	Condensed-Phase Pyrolysis of n-Tetradecane at Elevated Pressures for Long Duration.Product Distribution and Reaction Mechanisms. Industrial & Engineering Chemistry Research, 1994, 33, 534-547.	3.7	67
120	Shape-selective isopropylation of naphthalene over mordenite catalysts: Computational analysis using MOPAC. Applied Catalysis A: General, 1999, 182, 175-181.	4.3	67
121	Analysis and Comparison of Nitrogen Compounds in Different Liquid Hydrocarbon Streams Derived from Petroleum and Coal. Energy & Fuels, 2010, 24, 5539-5547.	5.1	67
122	Sulfur poisoning mechanism of steam reforming catalysts: an X-ray absorption near edge structure (XANES) spectroscopic study. Physical Chemistry Chemical Physics, 2010, 12, 5707.	2.8	67
123	Improving the Carbon Resistance of Ni-Based Steam Reforming Catalyst by Alloying with Rh: A Computational Study Coupled with Reforming Experiments and EXAFS Characterization. ACS Catalysis, 2011, 1, 574-582.	11.2	67
124	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. RSC Advances, 2015, 5, 17897-17904.	3.6	67
125	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
126	Hydrogen-Transferring Pyrolysis of Long-Chain Alkanes and Thermal Stability Improvement of Jet Fuels by Hydrogen Donors. Industrial & Engineering Chemistry Research, 1994, 33, 548-557.	3.7	65

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127	Non-fuel uses of coals and synthesis of chemicals and materials. Fuel, 1996, 75, 724-736.	6.4	65
128	Three-dimensional molecular basket sorbents for CO2 capture: Effects of pore structure of supports and loading level of polyethylenimine. Catalysis Today, 2014, 233, 100-107.	4.4	65
129	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
130	Effects of supports on bimetallic Pd-Cu catalysts for CO2 hydrogenation to methanol. Applied Catalysis A: General, 2019, 585, 117210.	4.3	65
131	Relationship between the Formation of Aromatic Compounds and Solid Deposition during Thermal Degradation of Jet Fuels in the Pyrolytic Regime. Energy & Fuels, 2001, 15, 714-723.	5.1	64
132	Synthesis, characterization and single gas permeation properties of NaA zeolite membrane. Journal of Membrane Science, 2005, 249, 51-64.	8.2	64
133	Synthesis of magnetic porous Fe 3 O 4 /C/Cu 2 O composite as an excellent photo-Fenton catalyst under neutral condition. Journal of Colloid and Interface Science, 2016, 475, 119-125.	9.4	64
134	Nano-structured CeO2 supported Cu-Pd bimetallic catalysts for the oxygen-assisted water–gas-shift reaction. Catalysis Today, 2005, 99, 347-357.	4.4	63
135	Comparative Study on the Sulfur Tolerance and Carbon Resistance of Supported Noble Metal Catalysts in Steam Reforming of Liquid Hydrocarbon Fuel. ACS Catalysis, 2012, 2, 1127-1137.	11.2	63
136	Fe-based bimetallic catalysts supported on TiO2 for selective CO2 hydrogenation to hydrocarbons. Journal of CO2 Utilization, 2018, 25, 330-337.	6.8	63
137	High-Temperature Stabilizers for Jet Fuels and Similar Hydrocarbon Mixtures. 1. Comparative Studies of Hydrogen Donors. Energy & Fuels, 1996, 10, 806-811.	5.1	62
138	Sulfur poisoning of CeO2–Al2O3-supported mono- and bi-metallic Ni and Rh catalysts in steam reforming of liquid hydrocarbons at low and high temperatures. Applied Catalysis A: General, 2010, 390, 210-218.	4.3	62
139	Synthesis of yolk–shell HPW@Hollow silicalite-1 for esterification reaction. Chemical Communications, 2014, 50, 4846.	4.1	61
140	Ultra-deep Desulfurization of Liquid Hydrocarbon Fuels: Chemistry and Process. International Journal of Green Energy, 2004, 1, 167-191.	3.8	60
141	Facile fabrication of ordered mesoporous graphitic carbon nitride for RhB photocatalytic degradation. Applied Surface Science, 2017, 396, 78-84.	6.1	57
142	Para-selective methylation of toluene with methanol over nano-sized ZSM-5 catalysts: Synergistic effects of surface modifications with SiO2, P2O5 and MgO. Microporous and Mesoporous Materials, 2014, 196, 18-30.	4.4	56
143	Effect of liquid-phase O3 oxidation of activated carbon on the adsorption of thiophene. Chemical Engineering Journal, 2014, 242, 211-219.	12.7	56
144	Hydrodeoxygenation of Guaiacol on Ru Catalysts: Influence of TiO ₂ –ZrO ₂ Composite Oxide Supports. Industrial & Engineering Chemistry Research, 2017, 56, 12070-12079.	3.7	56

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145	Direct Transformation of Carbon Dioxide to Value-Added Hydrocarbons by Physical Mixtures of Fe ₅ C ₂ and K-Modified Al ₂ O ₃ . Industrial & Engineering Chemistry Research, 2018, 57, 9120-9126.	3.7	56
146	Effects of Monocarboxylic Acid Additives on Synthesizing Metal–Organic Framework NH ₂ -MIL-125 with Controllable Size and Morphology. Crystal Growth and Design, 2017, 17, 6586-6595.	3.0	55
147	Hydrodeoxygenation of Guaiacol Catalyzed by High-Loading Ni Catalysts Supported on SiO ₂ –TiO ₂ Binary Oxides. Industrial & Engineering Chemistry Research, 2019, 58, 1513-1524.	3.7	55
148	Catalytic Hydrodeoxygenation of Guaiacol over Palladium Catalyst on Different Titania Supports. Energy & Fuels, 2017, 31, 10858-10865.	5.1	54
149	The anti-sintering catalysts: Fe–Co–Zr polymetallic fibers for CO2 hydrogenation to C2= –C4= – hydrocarbons. Journal of CO2 Utilization, 2018, 23, 219-225.	rich 6.8	54
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