Xiulian Pan

List of Publications by Year
in descending order

93 papers	13,691 citations	61687 45 h-index	48101 92 g-index
98 all docs	98 docs citations	98 times ranked	15497 citing authors

#	Article	IF	Citations
1	A mechanistic study of syngas conversion to light olefins over OXZEO bifunctional catalysts: insights into the initial carbonâ€“carbon bond formation on the oxide. Catalysis Science and Technology, 2022, 12, 1289-1295.	2.1	13
2	Direct Synthesis of Isoparaffin-rich Gasoline from Syngas. ACS Energy Letters, 2022, 7, 1462-1468.	8.8	11
3	<i>Operando</i> XAS Study of Pt-Doped CeO₂ for the Nonoxidative Conversion of Methane. ACS Catalysis, 2022, 12, 3897-3908.	5.5	20
4	Modulating the Formation and Evolution of Surface Hydrogen Species on ZnO through Cr Addition. ACS Catalysis, 2022, 12, 6255-6264.	5.5	15
5	Steering the reaction pathway of syngas-to-light olefins with coordination unsaturated sites of ZnGaOx spinel. Nature Communications, 2022, 13, 2742.	5.8	24
6	Modulated hydrocarbon distribution of gasoline deriving from butene conversion in the presence of syngas. Journal of Energy Chemistry, 2022, , .	7.1	5
7	Probing active species for CO hydrogenation over ZnCr2O4 catalysts. Chinese Journal of Catalysis, 2022, 43, 2017-2025.	6.9	4
8	Enhanced formation of multi-branched isoparaffins in syngas conversion by ZnCrOx-MCM-22 composites. Applied Catalysis B: Environmental, 2022, 316, 121628.	10.8	5
9	Direct experimental detection of hydrogen radicals in non-oxidative methane catalytic reaction. Journal of Energy Chemistry, 2021, 52, 372-376.	7.1	16
10	Selective synthesis of <i>para</i>-xylene and light olefins from CO₂/H₂ in the presence of toluene. Catalysis Science and Technology, 2021, 11, 4521-4528.	2.1	18
11	Oxideâ€“Zeolite-Based Composite Catalyst Concept That Enables Syngas Chemistry beyond Fischerâ€“Tropsch Synthesis. Chemical Reviews, 2021, 121, 6588-6609.	23.0	180
12	Effects of Proximity-Dependent Metal Migration on Bifunctional Composites Catalyzed Syngas to Olefins. ACS Catalysis, 2021, 11, 9729-9737.	5.5	41
13	Inorganic Catalysis for Methane Conversion to Chemicals. , 2021, , .		0
14	Role of SAPO-18 Acidity in Direct Syngas Conversion to Light Olefins. ACS Catalysis, 2020, 10, 12370-12375.	5.5	47
15	Selective Synthesis of Benzene, Toluene, and Xylenes from Syngas. ACS Catalysis, 2020, 10, 7389-7397.	5.5	53
16	Câˆ'C Bond Formation in Syngas Conversion over Zinc Sites Grafted on ZSMâ€5 Zeolite. Angewandte Chemie - International Edition, 2020, 59, 6529-6534.	7.2	34
17	Câˆ'C Bond Formation in Syngas Conversion over Zinc Sites Grafted on ZSMâ€5 Zeolite. Angewandte Chemie, 2020, 132, 6591-6596.	1.6	5
18	A highly active and stable Pd/B-doped carbon catalyst for the hydrogenation of 4-carboxybenzaldehyde. Journal of Energy Chemistry, 2019, 31, 154-158.	7.1	10

#	Article	IF	Citations
19	Selective conversion of syngas to propane over ZnCrO -SSZ-39 OX-ZEO catalysts. Journal of Energy Chemistry, 2019, 36, 141-147.	7.1	26
20	Enhanced Methane Conversion to Olefins and Aromatics by H-Donor Molecules under Nonoxidative Condition. ACS Catalysis, 2019, 9, 9045-9050.	5.5	44
21	Carbon dioxide hydrogenation to light olefins over ZnO-Y2O3 and SAPO-34 bifunctional catalysts. Catalysis Communications, 2019, 129, 105711.	1.6	40
22	Insights into the Site-Selective Adsorption of Methanol and Water in Mordenite Zeolite by ¹²⁹Xe NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 17368-17374.	1.5	9
23	Enhanced CO₂ Methanation Activity of Ni/Anatase Catalyst by Tuning Strong Metalâ€“Support Interactions. ACS Catalysis, 2019, 9, 6342-6348.	5.5	127
24	Highâ€Quality Gasoline Directly from Syngas by Dual Metal Oxideâ€“Zeolite (OXâ€ZEO) Catalysis. Angewandte Chemie - International Edition, 2019, 58, 7400-7404.	7.2	95
25	Highâ€Quality Gasoline Directly from Syngas by Dual Metal Oxideâ€“Zeolite (OXâ€ZEO) Catalysis. Angewandte Chemie, 2019, 131, 7478-7482.	1.6	15
26	Enhanced aromatic selectivity by the sheet-like ZSM-5 in syngas conversion. Journal of Energy Chemistry, 2019, 35, 44-48.	7.1	58
27	Size Effects of ZnO Nanoparticles in Bifunctional Catalysts for Selective Syngas Conversion. ACS Catalysis, 2019, 9, 960-966.	5.5	100
28	Recent advances in the preparation of zeolites for the selective catalytic reduction of NOx in diesel engines. Reaction Chemistry and Engineering, 2019, 4, 975-985.	1.9	35
29	Shapeâ€Selective Zeolites Promote Ethylene Formation from Syngas via a Ketene Intermediate. Angewandte Chemie - International Edition, 2018, 57, 4692-4696.	7.2	185
30	A versatile method for the encapsulation of various non-precious metal nanoparticles inside single-walled carbon nanotubes. Nano Research, 2018, 11, 3132-3144.	5.8	18
31	Growth of Cu/SSZ-13 on SiC for selective catalytic reduction of NO with NH 3. Chinese Journal of Catalysis, 2018, 39, 71-78.	6.9	7
32	The activity and stability of PdCl2/C-N catalyst for acetylene hydrochlorination. Science China Chemistry, 2018, 61, 444-448.	4.2	28
33	Carbon doping of hexagonal boron nitride porous materials toward CO₂ capture. Journal of Materials Chemistry A, 2018, 6, 1832-1839.	5.2	131
34	Pd supported on NC@SiC as an efficient and stable catalyst for 4-carboxybenzaldehyde hydrogenation. Catalysis Communications, 2018, 110, 79-82.	1.6	5
35	Enhanced ethylene selectivity and stability of Mo/ZSM5 upon modification with phosphorus in ethane dehydrogenation. Journal of Catalysis, 2018, 361, 94-104.	3.1	51
36	Shapeâ€Selective Zeolites Promote Ethylene Formation from Syngas via a Ketene Intermediate. Angewandte Chemie, 2018, 130, 4782-4786.	1.6	27

#	Article	IF	Citations
37	Modulating the CO methanation activity of Ni catalyst by nitrogen doped carbon. Journal of Energy Chemistry, 2018, 27, 898-902.	7.1	16
38	The role of water in methane adsorption and diffusion within nanoporous silica investigated by hyperpolarized 129Xe and 1H PFG NMR spectroscopy. Nano Research, 2018, 11, 360-369.	5.8	15
39	Displacement and Diffusion of Methane and Carbon Dioxide in SBA-15 Studied by NMR. Journal of Physical Chemistry C, 2017, 121, 2481-2486.	1.5	8
40	Direct Conversion of Methane to Value-Added Chemicals over Heterogeneous Catalysts: Challenges and Prospects. Chemical Reviews, 2017, 117, 8497-8520.	23.0	961
41	Deactivation mechanism and regeneration of carbon nanocomposite catalyst for acetylene hydrochlorination. Applied Catalysis B: Environmental, 2017, 210, 116-120.	10.8	65
42	Role of Manganese Oxide in Syngas Conversion to Light Olefins. ACS Catalysis, 2017, 7, 2800-2804.	5.5	188
43	Direct conversion of syngas to aromatics. Chemical Communications, 2017, 53, 11146-11149.	2.2	156
44	Confinement effect of carbon nanotubes on the product distribution of selective hydrogenation of cinnamaldehyde. Chinese Journal of Catalysis, 2017, 38, 1315-1321.	6.9	37
45	Catalytically Active Boron Nitride in Acetylene Hydrochlorination. ACS Catalysis, 2017, 7, 8572-8577.	5.5	54
46	Size-dependence of carbon nanotube confinement in catalysis. Chemical Science, 2017, 8, 278-283.	3.7	53
47	Modulating the methanation activity of Ni by the crystal phase of TiO₂. Catalysis Science and Technology, 2017, 7, 2813-2818.	2.1	29
48	Role of 12-Ring Channels of Mordenite in DME Carbonylation Investigated by Solid-State NMR. Journal of Physical Chemistry C, 2016, 120, 22526-22531.	1.5	56
49	Facilitated Diffusion of Methane in Pores with a Higher Aromaticity. Journal of Physical Chemistry C, 2016, 120, 19885-19889.	1.5	5
50	Selective conversion of syngas to light olefins. Science, 2016, 351, 1065-1068.	6.0	1,063
51	Aberration-corrected STEM of Four-atom Rhenium Nanowires Confined within Carbon Nanotubes. Microscopy and Microanalysis, 2015, 21, 2255-2256.	0.2	0
52	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. Science Advances, 2015, 1, e1500462.	4.7	719
53	Tailoring the Oxidation Activity of Pt Nanoclusters via Encapsulation. ACS Catalysis, 2015, 5, 1381-1385.	5.5	61
54	Direct conversion of syngas into hydrocarbons over a coreâ€“shell Cr-Zn@SiO2@SAPO-34 catalyst. Chinese Journal of Catalysis, 2015, 36, 1131-1135.	6.9	24

#	Article	IF	Citations
55	Visualizing electronic interactions between iron and carbon by X-ray chemical imaging and spectroscopy. Chemical Science, 2015, 6, 3262-3267.	3.7	68
56	Understanding nano effects in catalysis. National Science Review, 2015, 2, 183-201.	4.6	246
57	Toward Fundamentals of Confined Catalysis in Carbon Nanotubes. Journal of the American Chemical Society, 2015, 137, 477-482.	6.6	240
58	Exploring the ring current of carbon nanotubes by first-principles calculations. Chemical Science, 2015, 6, 902-908.	3.7	15
59	N-doped graphene as an electron donor of iron catalysts for CO hydrogenation to light olefins. Chemical Communications, 2015, 51, 217-220.	2.2	142
60	Silicon carbide-derived carbon nanocomposite as a substitute for mercury in the catalytic hydrochlorination of acetylene. Nature Communications, 2014, 5, 3688.	5.8	181
61	Direct, Nonoxidative Conversion of Methane to Ethylene, Aromatics, and Hydrogen. Science, 2014, 344, 616-619.	6.0	1,113
62	Diffusion of Water Inside Carbon Nanotubes Studied by Pulsed Field Gradient NMR Spectroscopy. Langmuir, 2014, 30, 8036-8045.	1.6	44
63	Nitrogen doped carbon catalyzing acetylene conversion to vinyl chloride. Journal of Energy Chemistry, 2014, 23, 131-135.	7.1	42
64	Facile encapsulation of nanosized SnO2 particles in carbon nanotubes as an efficient anode of Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9527.	5.2	64
65	Modulation of the textures and chemical nature of Câ€“SiC as the support of Pd for liquid phase hydrogenation. Carbon, 2013, 57, 34-41.	5.4	21
66	DFT Study on the NMR Chemical Shifts of Molecules Confined in Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 23418-23424.	1.5	15
67	Enhancing chemical reactions in a confined hydrophobic environment: an NMR study of benzene hydroxylation in carbon nanotubes. Chemical Science, 2013, 4, 1075.	3.7	53
68	Iron Encapsulated within Podâ€like Carbon Nanotubes for Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 371-375.	7.2	1,152
69	Facile filling of metal particles in small carbon nanotubes for catalysis. Journal of Energy Chemistry, 2013, 22, 251-256.	7.1	15
70	Tuning the redox activity of encapsulated metal clusters via the metallic and semiconducting character of carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14861-14866.	3.3	58
71	Local structure of titania decorated double-walled carbon nanotube characterized by scanning transmission X-ray microscopy. Journal of Chemical Physics, 2012, 136, 174701.	1.2	3
72	NMR Study of Preferential Endohedral Adsorption of Methanol in Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 7803-7809.	1.5	25

#	Article	IF	Citations
73	In- and Out-Dependent Interactions of Iron with Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 16461-16466.	1.5	30
74	A highly active and stable Pdâ€"TiO2/CDCâ€"SiC catalyst for hydrogenation of 4-carboxybenzaldehyde. Journal of Materials Chemistry, 2012, 22, 14155.	6.7	24
75	FeN particles confined inside CNT for light olefin synthesis from syngas: Effects of Mn and K additives. Catalysis Today, 2012, 186, 121-127.	2.2	74
76	FeN nanoparticles confined in carbon nanotubes for CO hydrogenation. Energy and Environmental Science, 2011, 4, 4500.	15.6	104
77	Size effect of graphene on electrocatalytic activation of oxygen. Chemical Communications, 2011, 47, 10016.	2.2	212
78	The Effects of Confinement inside Carbon Nanotubes on Catalysis. Accounts of Chemical Research, 2011, 44, 553-562.	7.6	597
79	Toward N-Doped Graphene via Solvothermal Synthesis. Chemistry of Materials, 2011, 23, 1188-1193.	3.2	984
80	Dispersion of metal nanoparticles on carbon nanotubes with few surface oxygen functional groups. Materials Letters, 2011, 65, 1522-1524.	1.3	10
81	Enhanced Catalytic Activity of Subâ€nanometer Titania Clusters Confined inside Doubleâ€Wall Carbon Nanotubes. ChemSusChem, 2011, 4, 975-980.	3.6	57
82	A Quantitative Electron Tomography Study of Ruthenium Particles on the Interior and Exterior Surfaces of Carbon Nanotubes. ChemSusChem, 2011, 4, 957-963.	3.6	28
83	Direct production of light olefins from syngas over a carbon nanotube confined iron catalyst. Science Bulletin, 2010, 55, 1117-1119.	1.7	21
84	Freestanding Graphene by Thermal Splitting of Silicon Carbide Granules. Advanced Materials, 2010, 22, 2168-2171.	11.1	95
85	Probing the Electronic Effect of Carbon Nanotubes in Catalysis: NH₃ Synthesis with Ru Nanoparticles. Chemistry - A European Journal, 2010, 16, 5379-5384.	1.7	164
86	Syngas Segregation Induced by Confinement in Carbon Nanotubes: A Combined First-Principles and Monte Carlo Study. Journal of Physical Chemistry C, 2009, 113, 21687-21692.	1.5	67
87	Effect of Confinement in Carbon Nanotubes on the Activity of Fischerâˆ'Tropsch Iron Catalyst. Journal of the American Chemical Society, 2008, 130, 9414-9419.	6.6	709
88	Tailored cutting of carbon nanotubes and controlled dispersion of metal nanoparticles inside their channels. Journal of Materials Chemistry, 2008, 18, 5782.	6.7	114
89	Reactions over catalysts confined in carbon nanotubes. Chemical Communications, 2008, , 6271.	2.2	232
90	Tuning of Redox Properties of Iron and Iron Oxides via Encapsulation within Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 7421-7426.	6.6	316

#	Article	IF	Citations
91	Enhanced ethanol production inside carbon-nanotube reactors containing catalytic particles. Nature Materials, 2007, 6, 507-511.	13.3	864
92	Facile Autoreduction of Iron Oxide/Carbon Nanotube Encapsulates. Journal of the American Chemical Society, 2006, 128, 3136-3137.	6.6	239
93	Low-temperature H2 and N2 transport through thin Pd66Cu34Hx layers. Catalysis Today, 2005, 104, 225-230.	2.2	42