

Yang Pan

List of Publications by Year in descending order

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86
papers

4,903
citations

159358

30
h-index

98622

67
g-index

87
all docs

87
docs citations

87
times ranked

4545
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective conversion of syngas to light olefins. <i>Science</i> , 2016, 351, 1065-1068.	6.0	1,063
2	Self-adaptive dual-metal-site pairs in metal-organic frameworks for selective CO ₂ photoreduction to CH ₄ . <i>Nature Catalysis</i> , 2021, 4, 719-729.	16.1	406
3	Partially Oxidized SnS ₂ Atomic Layers Achieving Efficient Visible-Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 18044-18051.	6.6	368
4	Sulfur vacancy-rich MoS ₂ as a catalyst for the hydrogenation of CO ₂ to methanol. <i>Nature Catalysis</i> , 2021, 4, 242-250.	16.1	308
5	Photocatalytic CO ₂ Conversion of M _{0.33} WO ₃ Directly from the Air with High Selectivity: Insight into Full Spectrum-Induced Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 5267-5274.	6.6	224
6	Photocatalytic Conversion of Waste Plastics into C ₂ Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15497-15501.	7.2	198
7	Synergizing metal-support interactions and spatial confinement boosts dynamics of atomic nickel for hydrogenations. <i>Nature Nanotechnology</i> , 2021, 16, 1141-1149.	15.6	165
8	Ultrathin Conductor Enabling Efficient IR Light CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 423-430.	6.6	146
9	Benzene decomposition by non-thermal plasma: A detailed mechanism study by synchrotron radiation photoionization mass spectrometry and theoretical calculations. <i>Journal of Hazardous Materials</i> , 2021, 420, 126584.	6.5	120
10	Efficient Infrared-Light-Driven CO ₂ Reduction Over Ultrathin Metallic Ni-doped CoS ₂ Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8705-8709.	7.2	108
11	Efficient infrared light induced CO ₂ reduction with nearly 100% CO selectivity enabled by metallic CoN porous atomic layers. <i>Nano Energy</i> , 2020, 69, 104421.	8.2	88
12	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8042-8046.	7.2	83
13	Gas-Phase Reaction Network of Li/MgO-Catalyzed Oxidative Coupling of Methane and Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2019, 9, 2514-2520.	5.5	71
14	Online Study on the Pyrolysis of Polypropylene over the HZSM-5 Zeolite with Photoionization Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2015, 29, 1090-1098.	2.5	62
15	NbO _x /CeO ₂ -rods catalysts for oxidative dehydrogenation of propane: Nb-CeO ₂ interaction and reaction mechanism. <i>Journal of Catalysis</i> , 2017, 348, 189-199.	3.1	59
16	Construction of a Multicomponent Molecular Model of Fugu Coal for ReaxFF-MD Pyrolysis Simulation. <i>Energy & Fuels</i> , 2019, 33, 2848-2858.	2.5	58
17	Pyrolysis Mechanism Study of Lignin Model Compounds by Synchrotron Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 2204-2208.	2.5	54
18	Formation and Fate of Formaldehyde in Methanol-to-Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4873-4878.	7.2	50

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19	Ambient-pressure hydrogenation of CO ₂ into long-chain olefins. <i>Nature Communications</i> , 2022, 13, 2396.	5.8	49
20	Mechanism study on the pyrolysis of the typical ether linkages in biomass. <i>Fuel</i> , 2019, 249, 146-153.	3.4	48
21	Imaging of Polar and Nonpolar Species Using Compact Desorption Electrospray Ionization/Postphotoionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 6616-6623.	3.2	45
22	Online Study on the Catalytic Pyrolysis of Bituminous Coal over HUSY and HZSM-5 with Photoionization Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 1598-1604.	2.5	45
23	Plastics-to-syngas photocatalysed by Co ²⁺ /Ga ₂ O ₃ nanosheets. <i>National Science Review</i> , 2022, 9, .	4.6	42
24	Effects of Proximity-Dependent Metal Migration on Bifunctional Composites Catalyzed Syngas to Olefins. <i>ACS Catalysis</i> , 2021, 11, 9729-9737.	5.5	41
25	Atomically dispersed palladium-based catalysts obtained via constructing a spatial structure with high performance for lean methane combustion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7395-7404.	5.2	40
26	Surface coupling of methyl radicals for efficient low-temperature oxidative coupling of methane. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1117-1125.	6.9	39
27	Controllable CO ₂ conversion in high performance proton conducting solid oxide electrolysis cells and the possible mechanisms. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4855-4864.	5.2	37
28	Co-generation of electricity and olefin via proton conducting fuel cells using (Pr _{0.3} Sr _{0.7}) _{0.9} Ni _{0.1} Ti _{0.9} O ₃ catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118973.	10.8	37
29	Single-Site Catalysis of Li-MgO Catalysts for Oxidative Coupling of Methane Reaction. <i>ACS Catalysis</i> , 2020, 10, 15142-15148.	5.5	34
30	Online Characterization of Isomeric/Isobaric Components in the Gas Phase of Mainstream Cigarette Smoke by Tunable Synchrotron Radiation Vacuum Ultraviolet Photoionization Time-of-Flight Mass Spectrometry and Photoionization Efficiency Curve Simulation. <i>Analytical Chemistry</i> , 2013, 85, 11993-12001.	3.2	32
31	NH ₃ Plasma Functionalization of UiO-66-NH ₂ for Highly Enhanced Selective Fluorescence Detection of U(VI) in Water. <i>Analytical Chemistry</i> , 2022, 94, 10091-10100.	3.2	32
32	Studies on Photoinduced H-Atom and Electron Transfer Reactions of o-Naphthoquinones by Laser Flash Photolysis. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7316-7322.	1.1	31
33	Pyrolysis Study on Solid Fuels: From Conventional Analytical Methods to Synchrotron Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 1534-1543.	2.5	31
34	Binding States of Protein-Metal Complexes in Cells. <i>Analytical Chemistry</i> , 2016, 88, 10860-10866.	3.2	28
35	Bifunctional zeolites-silver catalyst enabled tandem oxidation of formaldehyde at low temperatures. <i>Nature Communications</i> , 2022, 13, 2209.	5.8	28
36	CH ₃ ⁺ -Generating Capability as a Reactivity Descriptor for Metal Oxides in Oxidative Coupling of Methane. <i>ACS Catalysis</i> , 2021, 11, 14651-14659.	5.5	26

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37	Ex Situ Catalytic Pyrolysis of Algal Biomass in a Double Microfixed-Bed Reactor: Catalyst Deactivation and Its Coking Behavior. <i>Energy & Fuels</i> , 2020, 34, 1918-1928.	2.5	25
38	In-plane heterostructured Ag ₂ S-In ₂ S ₃ atomic layers enabling boosted CO ₂ photoreduction into CH ₄ . <i>Nano Research</i> , 2021, 14, 4520-4527.	5.8	24
39	Catalytic pyrolysis of xylan over alkali metal salts as revealed by synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 94-100.	2.6	23
40	Quantitative phase microscopy with enhanced contrast and improved resolution through ultraoblique illumination (UO-QPM). <i>Journal of Biophotonics</i> , 2019, 12, e201900011.	1.1	23
41	Ultrasonic nebulization extraction/low pressure photoionization mass spectrometry for direct analysis of chemicals in matrices. <i>Analytica Chimica Acta</i> , 2015, 891, 203-210.	2.6	22
42	Note: A novel vacuum ultraviolet light source assembly with aluminum-coated electrodes for enhancing the ionization efficiency of photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2014, 85, 046110.	0.6	21
43	Experimental and Theoretical Investigation of the Pyrolysis of Furfural. <i>Journal of Physical Chemistry A</i> , 2019, 123, 103-110.	1.1	21
44	Working-in-tandem mechanism of multi-dopants in enhancing electrocatalytic nitrogen reduction reaction performance of carbon-based materials. <i>Nano Research</i> , 2021, 14, 3234-3239.	5.8	20
45	<i>Operando</i> XAS Study of Pt-Doped CeO ₂ for the Nonoxidative Conversion of Methane. <i>ACS Catalysis</i> , 2022, 12, 3897-3908.	5.5	20
46	Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. <i>Jacs Au</i> , 2022, 2, 1096-1104.	3.6	20
47	Comparative study of different algae pyrolysis using photoionization mass spectrometry and gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105068.	2.6	19
48	Recent Advances of Ambient Mass Spectrometry Imaging and Its Applications in Lipid and Metabolite Analysis. <i>Metabolites</i> , 2021, 11, 780.	1.3	19
49	Novel in-situ MgO nano-layer decorated carbon-tolerant anode for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11791-11801.	3.8	18
50	Photocatalytic Conversion of Waste Plastics into C ₂ Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie</i> , 2020, 132, 15627-15631.	1.6	17
51	Simvastatin impairs hippocampal synaptic plasticity and cognitive function in mice. <i>Molecular Brain</i> , 2021, 14, 41.	1.3	16
52	Real-time monitoring the carbonization and activation process of activated carbon prepared from Chinese parasol via zinc chloride activation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105089.	2.6	16
53	Extractive Atmospheric Pressure Photoionization (EAPPI) Mass Spectrometry: Rapid Analysis of Chemicals in Complex Matrices. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1597-1605.	1.2	14
54	Ultrafast Microelectrophoresis: Behind Direct Mass Spectrometry Measurements of Proteins and Metabolites in Living Cell/Cells. <i>Analytical Chemistry</i> , 2019, 91, 10441-10447.	3.2	14

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55	Cholesterol was identified as a biomarker in human melanocytic nevi using DESI and DESI/PI mass spectrometry imaging. <i>Talanta</i> , 2021, 231, 122380.	2.9	14
56	Improving quantification of hydrogen peroxide by synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Combustion and Flame</i> , 2022, 242, 112214.	2.8	14
57	Direct and rapid analysis of trace levels steroids in water by thermal desorption atmospheric pressure photoionization mass spectrometry. <i>Analytical Methods</i> , 2019, 11, 1304-1311.	1.3	13
58	Infiltrated Ni _{0.08} Co _{0.02} CeO ₂ @Ni _{0.8} Co _{0.2} Catalysts for a Finger-Like Anode in Direct Methane-Fueled Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4943-4954.	4.0	13
59	Identification of Isobars and Isomers in Cigarette Sidestream Smoke in Real Time by Synchrotron Radiation Photoionization Mass Spectrometry and Multiple Linear Regression. <i>Analytical Chemistry</i> , 2021, 93, 5718-5726.	3.2	13
60	Exploring the reaction chemistry of biomass upgrading over HZSM-5 catalyst through model compounds. <i>Fuel</i> , 2022, 312, 122874.	3.4	13
61	Probing reaction pathways for H ₂ O-mediated HCHO photooxidation at room temperature. <i>Nano Research</i> , 2021, 14, 1471-1478.	5.8	12
62	Atmospheric CO ₂ capture and photofixation to near-unity CO by Ti ³⁺ -V _o -Ti ³⁺ sites confined in TiO ₂ ultrathin layers. <i>Science China Chemistry</i> , 2021, 64, 953-958.	4.2	12
63	Understanding the Homogeneous Reactions of Primary Tar from Biomass Pyrolysis by Means of Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 12678-12687.	2.5	12
64	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 8119-8123.	1.6	11
65	Efficient Infrared-Light-Driven CO ₂ Reduction Over Ultrathin Metallic Ni-doped CoS ₂ Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 8787-8791.	1.6	11
66	Study on Gas Phase Components in Mainstream Cigarette Smoke by Synchrotron Radiation Photoionization Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 40, 1048-1052.	0.9	10
67	Influence of Thermal Treatment of HUSY on Catalytic Pyrolysis of Polypropylene: An Online Photoionization Mass Spectrometric Study. <i>Energy & Fuels</i> , 2016, 30, 5122-5129.	2.5	10
68	Fast and comprehensive characterization of chemical ingredients in traditional Chinese herbal medicines by extractive atmospheric pressure photoionization (EAPPI) mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1491-1498.	0.7	10
69	Upgrading of furans from in situ catalytic fast pyrolysis of xylan by reduced graphene oxide supported Pt nanoparticles. <i>Renewable Energy</i> , 2020, 152, 94-101.	4.3	9
70	Co ³⁺ -O Bond Elongation Unlocks Co ₃ O ₄ for Methane Activation under Ambient Conditions. <i>ACS Catalysis</i> , 2022, 12, 7037-7045.	5.5	9
71	Capture of Electrochemically Generated Fleeting Carbazole Radical Cations and Elucidation of Carbazole Dimerization Mechanism by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 15291-15296.	3.2	8
72	Cholesterol regulates cannabinoid analgesia through glycine receptors. <i>Neuropharmacology</i> , 2020, 177, 108242.	2.0	8

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73	Online Monitoring the Key Intermediates and Volatile Compounds Evolved from Green Tea Roasting by Synchrotron Radiation Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1402-1411.	1.2	7
74	On-Line Photoionization Mass Spectrometric Study on Behavior of Ammonia Poisoning on H-Form Ultra Stable Y Zeolite for Catalytic Pyrolysis of Polypropylene. <i>Chinese Journal of Chemical Physics</i> , 2016, 29, 681-686.	0.6	6
75	Effects of Solvent and Ion Source Pressure on the Analysis of Anabolic Steroids by Low Pressure Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 724-728.	1.2	6
76	Atmospheric-Pressure Pyrolysis Study of Chlorobenzene Using Synchrotron Radiation Photoionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1949-1957.	1.1	5
77	Reaction mechanism of toluene decomposition in non-thermal plasma: How does it compare with benzene?. <i>Fundamental Research</i> , 2022, , .	1.6	5
78	Chargeâ€dependent modulation of specific and nonspecific proteinâ€metal ion interactions in nanoelectrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1502-1511.	0.7	4
79	A high-pressure reactor coupled to synchrotron radiation photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2020, 91, 093102.	0.6	4
80	Effects of dopants in the imaging of mouse brain by desorption electrospray ionization/postâ€photoionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2022, 57, e4813.	0.7	3
81	Experimental and kinetic study on flash pyrolysis of biomass via on-line photoionization mass spectrometry. <i>Applications in Energy and Combustion Science</i> , 2022, 9, 100057.	0.9	3
82	Formation and Fate of Formaldehyde in Methanolâ€toâ€Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. <i>Angewandte Chemie</i> , 2020, 132, 4903-4908.	1.6	2
83	Imaging of Polar and Nonpolar Lipids Using Desorption Electrospray Ionization/Post-photoionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2021, 2306, 285-298.	0.4	2
84	Rapid Quantification of Endogenous Steroids in Human Serum Using Leidenfrost Effect-Assisted Thermal Desorption Atmospheric Pressure Photoionization Orbitrap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1250-1259.	1.2	2
85	Direct SVLIV-PIMS Identification of Unstable Oxygenated Intermediates in Ethanol to Butadiene Reaction. <i>Catalysis Science and Technology</i> , 0, , .	2.1	1
86	Titelbild: Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts (<i>Angew. Chem.</i> 21/2020). <i>Angewandte Chemie</i> , 2020, 132, 8045-8045.	1.6	0