

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 | Exploring the reaction chemistry of biomass upgrading over HZSM-5 catalyst through model compounds. <i>Fuel</i> , 2022, 312, 122874. | 3.4 | 13 |
| 2 | Plastics-to-syngas photocatalysed by Co ²⁺ /Ga ₂ O ₃ nanosheets. <i>National Science Review</i> , 2022, 9, . | 4.6 | 42 |
| 3 | Effects of dopants in the imaging of mouse brain by desorption electrospray ionization/post-photoionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2022, 57, e4813. | 0.7 | 3 |
| 4 | 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 |
| 5 | <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 |
| 6 | 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 |
| 7 | Bifunctional zeolites-silver catalyst enabled tandem oxidation of formaldehyde at low temperatures. <i>Nature Communications</i> , 2022, 13, 2209. | 5.8 | 28 |
| 8 | Ambient-pressure hydrogenation of CO ₂ into long-chain olefins. <i>Nature Communications</i> , 2022, 13, 2396. | 5.8 | 49 |
| 9 | Reaction mechanism of toluene decomposition in non-thermal plasma: How does it compare with benzene?. <i>Fundamental Research</i> , 2022, , . | 1.6 | 5 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Improving quantification of hydrogen peroxide by synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Combustion and Flame</i> , 2022, 242, 112214. | 2.8 | 14 |
| 14 | Probing reaction pathways for H ₂ O-mediated HCHO photooxidation at room temperature. <i>Nano Research</i> , 2021, 14, 1471-1478. | 5.8 | 12 |
| 15 | 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 |
| 16 | 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 |
| 17 | Simvastatin impairs hippocampal synaptic plasticity and cognitive function in mice. <i>Molecular Brain</i> , 2021, 14, 41. | 1.3 | 16 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Effects of Proximity-Dependent Metal Migration on Bifunctional Composites Catalyzed Syngas to Olefins. <i>ACS Catalysis</i> , 2021, 11, 9729-9737. | 5.5 | 41 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Recent Advances of Ambient Mass Spectrometry Imaging and Its Applications in Lipid and Metabolite Analysis. <i>Metabolites</i> , 2021, 11, 780. | 1.3 | 19 |
| 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 | 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 |
| 38 | 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 |
| 39 | Cholesterol regulates cannabinoid analgesia through glycine receptors. <i>Neuropharmacology</i> , 2020, 177, 108242. | 2.0 | 8 |
| 40 | A high-pressure reactor coupled to synchrotron radiation photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2020, 91, 093102. | 0.6 | 4 |
| 41 | Single-Site Catalysis of Li-MgO Catalysts for Oxidative Coupling of Methane Reaction. <i>ACS Catalysis</i> , 2020, 10, 15142-15148. | 5.5 | 34 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Formation and Fate of Formaldehyde in Methanol-to-Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. <i>Angewandte Chemie</i> , 2020, 132, 4903-4908. | 1.6 | 2 |
| 49 | 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 |
| 50 | Atomically dispersed palladium-based catalysts obtained <i>via</i> 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Charge-dependent modulation of specific and nonspecific protein-metal ion interactions in nanoelectrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1502-1511. | 0.7 | 4 |
| 59 | Quantitative phase microscopy with enhanced contrast and improved resolution through ultra-oblique illumination (UO-QPM). <i>Journal of Biophotonics</i> , 2019, 12, e201900011. | 1.1 | 23 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Mechanism study on the pyrolysis of the typical ether linkages in biomass. <i>Fuel</i> , 2019, 249, 146-153. | 3.4 | 48 |
| 64 | 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 |
| 65 | Ultrathin Conductor Enabling Efficient IR Light CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 423-430. | 6.6 | 146 |
| 66 | Experimental and Theoretical Investigation of the Pyrolysis of Furfural. <i>Journal of Physical Chemistry A</i> , 2019, 123, 103-110. | 1.1 | 21 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | Binding States of Protein-Metal Complexes in Cells. <i>Analytical Chemistry</i> , 2016, 88, 10860-10866. | 3.2 | 28 |
| 75 | 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 |
| 76 | Selective conversion of syngas to light olefins. <i>Science</i> , 2016, 351, 1065-1068. | 6.0 | 1,063 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | Direct SVUV-PIMS Identification of Unstable Oxygenated Intermediates in Ethanol to Butadiene Reaction. <i>Catalysis Science and Technology</i> , 0, , . | 2.1 | 1 |