# Fei Yu

List of Publications by Year
in descending order



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|---|---|---|---|
| 96 papers | 4,587 citations | 101543 36 h-index | 106344 65 g-index |
| 99 all docs | 99 docs citations | 99 times ranked | 5008 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cobalt carbide nanoprisms for direct production of lower olefins from syngas. Nature, 2016, 538, 84-87. | 27.8 | 647 |
| 2 | Progress and perspectives in converting biogas to transportation fuels. Renewable and Sustainable Energy Reviews, 2014, 40, 1133-1152. | 16.4 | 315 |
| 3 | Modeling downdraft biomass gasification process by restricting chemical reaction equilibrium with Aspen Plus. Energy Conversion and Management, 2017, 153, 641-648. | 9.2 | 179 |
| 4 | Iron nanoparticles in situ encapsulated in biochar-based carbon as an effective catalyst for the conversion of biomass-derived syngas to liquid hydrocarbons. Green Chemistry, 2013, 15, 1631. | 9.0 | 171 |
| 5 | Effects of Sodium on the Catalytic Performance of CoMn Catalysts for Fischerâ€“Tropsch to Olefin Reactions. ACS Catalysis, 2017, 7, 3622-3631. | 11.2 | 157 |
| 6 | Application of Fischerâ€“Tropsch Synthesis in Biomass to Liquid Conversion. Catalysts, 2012, 2, 303-326. | 3.5 | 153 |
| 7 | Restickable Oxide Neuromorphic Transistors with Spikeâ€Timingâ€Dependent Plasticity and Pavlovian Associative Learning Activities. Advanced Functional Materials, 2018, 28, 1804025. | 14.9 | 139 |
| 8 | Chitosan-Based Polysaccharide-Gated Flexible Indium Tin Oxide Synaptic Transistor with Learning Abilities. ACS Applied Materials & Interfaces, 2018, 10, 16881-16886. | 8.0 | 120 |
| 9 | Fischerâ€“Tropsch synthesis of olefin-rich liquid hydrocarbons from biomass-derived syngas over carbon-encapsulated iron carbide/iron nanoparticles catalyst. Fuel, 2017, 193, 369-384. | 6.4 | 101 |
| 10 | Highly active and stable Ni-based bimodal pore catalyst for dry reforming of methane. Applied Catalysis A: General, 2015, 491, 116-126. | 4.3 | 94 |
| 11 | Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. Angewandte Chemie - International Edition, 2019, 58, 4627-4631. | 13.8 | 92 |
| 12 | Sandwiched SiO2@Ni@ZrO2 as a coke resistant nanocatalyst for dry reforming of methane. Applied Catalysis B: Environmental, 2019, 254, 612-623. | 20.2 | 92 |
| 13 | Recovery of energy and iron from oily sludge pyrolysis in a fluidized bed reactor. Journal of Environmental Management, 2015, 154, 177-182. | 7.8 | 84 |
| 14 | Effect of Acid, Alkali, and Steam Explosion Pretreatments on Characteristics of Bio-Oil Produced from Pinewood. Energy & Fuels, 2011, 25, 3758-3764. | 5.1 | 83 |
| 15 | A two-stage chance-constrained stochastic programming model for a bio-fuel supply chain network. International Journal of Production Economics, 2018, 195, 27-44. | 8.9 | 83 |
| 16 | Hydrodeoxygenation of oxidized distilled bio-oil for the production of gasoline fuel type. Energy Conversion and Management, 2016, 112, 319-327. | 9.2 | 82 |
| 17 | Elucidating the Copperâ€“HÃgg Iron Carbide Synergistic Interactions for Selective CO Hydrogenation to Higher Alcohols. ACS Catalysis, 2017, 7, 5500-5512. | 11.2 | 82 |
| 18 | Catalytic conversion of syngas to mixed alcohols over Zn-Mn promoted Cu-Fe based catalyst. Applied Catalysis A: General, 2012, 429-430, 48-58. | 4.3 | 79 |

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|---|---|---|---|
| 19 | Mechanism of the Mn Promoter via CoMn Spinel for Morphology Control: Formation of Co<sub>2</sub>C Nanoprisms for Fischerâ€“Tropsch to Olefins Reaction. ACS Catalysis, 2017, 7, 8023-8032. | 11.2 | 79 |
| 20 | Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. Angewandte Chemie, 2019, 131, 4675-4679. | 2.0 | 65 |
| 21 | Catalytic conversion wood syngas to synthetic aviation turbine fuels over a multifunctional catalyst. Bioresource Technology, 2013, 127, 281-290. | 9.6 | 64 |
| 22 | High Selectivity Higher Alcohols Synthesis from Syngas over Threeâ€Dimensionally Ordered Macroporous Cuâ€Fe Catalysts. ChemCatChem, 2014, 6, 473-478. | 3.7 | 64 |
| 23 | Advances in direct production of value-added chemicals via syngas conversion. Science China Chemistry, 2017, 60, 887-903. | 8.2 | 62 |
| 24 | Cobalt Carbide Nanocatalysts for Efficient Syngas Conversion to Value-Added Chemicals with High Selectivity. Accounts of Chemical Research, 2021, 54, 1961-1971. | 15.6 | 54 |
| 25 | Pyrolytic spray increases levoglucosan production during fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2013, 100, 33-40. | 5.5 | 52 |
| 26 | Synthesis of Aromatic-Rich Gasoline-Range Hydrocarbons from Biomass-Derived Syngas over a Pd-Promoted Fe/HZSM-5 Catalyst. Energy & Fuels, 2014, 28, 2027-2034. | 5.1 | 52 |
| 27 | Dendrite Integration Mimicked on Starch-Based Electrolyte-Gated Oxide Dendrite Transistors. ACS Applied Materials & Interfaces, 2018, 10, 40008-40013. | 8.0 | 49 |
| 28 | Physical and chemical properties of bio-oils from microwave pyrolysis of corn stover. Applied Biochemistry and Biotechnology, 2007, 137-140, 957-970. | 2.9 | 48 |
| 29 | Synthesis of carbon-encapsulated iron nanoparticles from wood derived sugars by hydrothermal carbonization (HTC) and their application to convert bio-syngas into liquid hydrocarbons. Biomass and Bioenergy, 2015, 83, 85-95. | 5.7 | 46 |
| 30 | Oxide Neuromorphic Transistors Gated by Polyvinyl Alcohol Solid Electrolytes with Ultralow Power Consumption. ACS Applied Materials & Interfaces, 2019, 11, 28352-28358. | 8.0 | 46 |
| 31 | Particle Size Effects of Cobalt Carbide for Fischerâ€“Tropsch to Olefins. ACS Catalysis, 2019, 9, 798-809. | 11.2 | 45 |
| 32 | Bilayered Oxideâ€Based Cognitive Memristor with Brainâ€Inspired Learning Activities. Advanced Electronic Materials, 2019, 5, 1900439. | 5.1 | 43 |
| 33 | Synthesis of tungsten carbide nanoparticles in biochar matrix as a catalyst for dry reforming of methane to syngas. Catalysis Science and Technology, 2015, 5, 3270-3280. | 4.1 | 42 |
| 34 | Threshold-Tunable, Spike-Rate-Dependent Plasticity Originating from Interfacial Proton Gating for Pattern Learning and Memory. ACS Applied Materials & Interfaces, 2020, 12, 7833-7839. | 8.0 | 41 |
| 35 | NH3-SCR denitration catalyst performance over vanadiumâ€“titanium with the addition of Ce and Sb. Journal of Environmental Sciences, 2015, 31, 74-80. | 6.1 | 40 |
| 36 | Biogas reforming of carbon dioxide to syngas production over Ni-Mg-Al catalysts. Molecular Catalysis, 2017, 436, 248-258. | 2.0 | 39 |

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|---|---|---|---|
| 37 | Non-thermal plasma enhanced dry reforming of CH4 with CO2 over activated carbon supported Ni catalysts. Molecular Catalysis, 2019, 475, 110486. | 2.0 | 38 |
| 38 | Fischerâ€“Tropsch synthesis of liquid hydrocarbons over mesoporous SBA-15 supported cobalt catalysts. RSC Advances, 2015, 5, 59792-59803. | 3.6 | 36 |
| 39 | Inhibitors removal from bio-oil aqueous fraction for increased ethanol production. Bioresource Technology, 2014, 161, 379-384. | 9.6 | 35 |
| 40 | Liquefaction of Corn Stover and Preparation of Polyester From the Liquefied Polyol. Applied Biochemistry and Biotechnology, 2006, 130, 574-585. | 2.9 | 34 |
| 41 | Sustainable olefin supply chain network design under seasonal feedstock supplies and uncertain carbon tax rate. Journal of Cleaner Production, 2019, 222, 280-299. | 9.3 | 34 |
| 42 | Natural gas reforming of carbon dioxide for syngas over Niâ€“Ceâ€“Al catalysts. International Journal of Hydrogen Energy, 2017, 42, 18364-18374. | 7.1 | 33 |
| 43 | Effect of Acid, Steam Explosion, and Size Reduction Pretreatments on Bio-oil Production from Sweetgum, Switchgrass, and Corn Stover. Applied Biochemistry and Biotechnology, 2012, 167, 285-297. | 2.9 | 31 |
| 44 | Effect of Sodium on the Structureâ€Performance Relationship of Co/<scp>SiO<sub>2</sub></scp> for Fischerâ€Tropsch Synthesis. Chinese Journal of Chemistry, 2017, 35, 918-926. | 4.9 | 31 |
| 45 | Effect of Reaction Pressures on Structureâ€“Performance of Co<sub>2</sub>C-Based Catalyst for Syngas Conversion. Industrial & Engineering Chemistry Research, 2018, 57, 15647-15653. | 3.7 | 31 |
| 46 | Flexible Poly(Vinyl Alcohol)â€“Graphene Oxide Hybrid Nanocomposite Based Cognitive Memristor with Pavlovianâ€Conditioned Reflex Activities. Advanced Electronic Materials, 2020, 6, 1901402. | 5.1 | 31 |
| 47 | Detoxification and Fermentation of Pyrolytic Sugar for Ethanol Production. Applied Biochemistry and Biotechnology, 2012, 168, 1568-1583. | 2.9 | 28 |
| 48 | K-promoted Mo/Co- and Mo/Ni-catalyzed Fischerâ€“Tropsch synthesis of aromatic hydrocarbons with and without a Cu water gas shift catalyst. Applied Catalysis A: General, 2014, 480, 93-99. | 4.3 | 28 |
| 49 | Atmospheric Pressure Liquefaction of Dried Distillers Grains (DDG) and Making Polyurethane Foams from Liquefied DDG. Applied Biochemistry and Biotechnology, 2008, 148, 235-243. | 2.9 | 24 |
| 50 | Fischer-Tropsch to olefins over CoMn-based catalysts: Effect of preparation methods. Applied Catalysis A: General, 2020, 592, 117414. | 4.3 | 22 |
| 51 | Characteristics of Coal and Pine Sawdust Co-carbonization. Energy & Fuels, 2014, 28, 848-857. | 5.1 | 21 |
| 52 | Hydrofunctionalization of olefins to value-added chemicals via photocatalytic coupling. Green Chemistry, 2018, 20, 3450-3456. | 9.0 | 21 |
| 53 | Non-thermal plasma-enhanced dry reforming of methane and CO2 over Ce-promoted Ni/C catalysts. Molecular Catalysis, 2020, 485, 110821. | 2.0 | 21 |
| 54 | Direct Conversion of Syngas to Higher Alcohols over Multifunctional Catalyst: The Role of Copper-Based Component and Catalytic Mechanism. Journal of Physical Chemistry C, 2021, 125, 6137-6146. | 3.1 | 20 |

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|---|---|---|---|
| 55 | Effects of biochar mixtures with pine-bark based substrates on growth and development of horticultural crops. Horticulture Environment and Biotechnology, 2018, 59, 345-354. | 2.1 | 19 |
| 56 | Catalytic Conversion of Biogas to Syngas via Dry Reforming Process. Advances in Bioenergy, 2018, , 43-76. | 1.3 | 18 |
| 57 | Highly Selective Photocatalytic Aerobic Oxidation of Methane to Oxygenates with Water over Wâ€doped TiO<sub>2</sub>. ChemSusChem, 2022, 15, . | 6.8 | 18 |
| 58 | Synthesis of gasoline-range hydrocarbons from nitrogen-rich syngas over a Mo/HZSM-5 bi-functional catalyst. Journal of the Energy Institute, 2016, 89, 782-792. | 5.3 | 17 |
| 59 | The effect of syngas composition on the Fischer Tropsch synthesis over three-dimensionally ordered macro-porous iron based catalyst. Molecular Catalysis, 2017, 440, 175-183. | 2.0 | 17 |
| 60 | Reaction Kinetics of Stover Liquefaction in Recycled Stover Polyol. Applied Biochemistry and Biotechnology, 2006, 130, 563-573. | 2.9 | 16 |
| 61 | Biohydrogen production through fermentation using liquid swine manure as substrate. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2007, 42, 393-401. | 1.5 | 16 |
| 62 | Catalytic removal of oxygen from biomass-derived syngas. Bioresource Technology, 2013, 147, 117-123. | 9.6 | 16 |
| 63 | Supply Chain Design and Management for Syngas Production. ACS Sustainable Chemistry and Engineering, 2016, 4, 890-900. | 6.7 | 16 |
| 64 | Ionotronic Neuromorphic Devices for Bionic Neural Network Applications. Physica Status Solidi - Rapid Research Letters, 2019, 13, . | 2.4 | 16 |
| 65 | Kinetic study of methane reforming with carbon dioxide over NiCeMgAl bimodal pore catalyst. AICHE Journal, 2017, 63, 2019-2029. | 3.6 | 15 |
| 66 | Mesoporous Ni(OH)<sub>2</sub>/CeNi<sub>x</sub>O<sub>y</sub> Composites Derived Ni/CeNi<sub>x</sub>O<sub>y</sub> Catalysts for Dry Reforming of Methane. ChemCatChem, 2018, 10, 250-258. | 3.7 | 15 |
| 67 | Electrolyte Gated Oxide Pseudodiode for Inhibitory Synapse Applications. Advanced Electronic Materials, 2018, 4, 1800371. | 5.1 | 14 |
| 68 | Mechanism and Performance of the SCR of NO with NH3 over Sulfated Sintered Ore Catalyst. Catalysts, 2019, 9, 90. | 3.5 | 14 |
| 69 | Catalytic upgrading nitrogen-riched wood syngas to liquid hydrocarbon mixture over a Feâ€“Pd/ZSM-5 catalyst. Biomass and Bioenergy, 2012, 47, 469-473. | 5.7 | 13 |
| 70 | The Addition of Water to Extract Maximum Levoglucosan from the Bio-oil Produced via Fast Pyrolysis of Pretreated Loblolly Pinewood. BioResources, 2013, 8, . | 1.0 | 13 |
| 71 | Material Balance and Energy Balance Analysis for Syngas Generation by a Pilot-Plant Scale Downdraft Gasifier. Journal of Biobased Materials and Bioenergy, 2013, 7, 690-695. | 0.3 | 13 |
| 72 | Gasoline-range hydrocarbon production using biomass derived synthesis gas over Mo/H+ZSM-5. Fuel, 2012, 96, 239-249. | 6.4 | 12 |

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|---|---|---|---|
| 73 | Effect of pine wood biochar mixed with two types of compost on growth of bell pepper (Capsicum) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.1 | 11 |
| 74 | Direct production of olefins via syngas conversion over Co<sub>2</sub>C-based catalyst in slurry bed reactor. RSC Advances, 2019, 9, 4131-4139. | 3.6 | 10 |
| 75 | Fischer-Trospch to olefins over hydrophobic FeMnOx@SiO2 catalysts: The effect of SiO2 shell content. Applied Catalysis A: General, 2022, 635, 118552. | 4.3 | 10 |
| 76 | Production of high-value products including gasoline hydrocarbons from the thermochemical conversion of syngas. Biofuels, 2011, 2, 677-691. | 2.4 | 9 |
| 77 | Direct synthesis of higher alcohols from syngas over modified Mo<sub>2</sub>C catalysts under mild reaction conditions. Catalysis Science and Technology, 2022, 12, 1697-1708. | 4.1 | 9 |
| 78 | Insight into the phase evolution of a NiMgAl catalyst from the reduction stage to the post-reaction stage during the dry reforming of methane. Chemical Communications, 2017, 53, 6001-6004. | 4.1 | 6 |
| 79 | The Influence of Texture on Co/SBAâ€“15 Catalyst Performance for Fischerâ€“Tropsch Synthesis. Catalysts, 2018, 8, 661. | 3.5 | 6 |
| 80 | Effects of alkaline-earth metals on CoMn-based catalysts for the Fischerâ€“Tropsch synthesis to olefins. Catalysis Science and Technology, 2022, 12, 2677-2687. | 4.1 | 6 |
| 81 | Assessment of Potential Capacity Increases at Combined Heat and Power Facilities Based on Available Corn Stover and Forest Logging Residues. Energies, 2013, 6, 4418-4428. | 3.1 | 5 |
| 82 | Size effect of CoxMn1-xO precursor for Fischer-Tropsch to olefins over Co2C-based catalysts. Catalysis Science and Technology, 0, , . | 4.1 | 5 |
| 83 | Oxygen removal from syngas by catalytic oxidation of copper catalyst. Journal of the Energy Institute, 2014, 87, 246-252. | 5.3 | 3 |
| 84 | The Reaction Mechanism and Its Kinetic Model of CO2 Reforming with CH4 over Ni-Mg15@HC Catalyst. Catalysis Letters, 2020, 150, 1479-1488. | 2.6 | 3 |
| 85 | Effects of Noble Metals on a Co<sub>2</sub>C-Based Supported Catalyst for Fischerâ€“Tropsch to Olefins. Industrial & Engineering Chemistry Research, 2022, 61, 4824-4831. | 3.7 | 3 |
| 86 | Effect of Treated Time of Hydrothermal Etching Process on Oxide Layer Formation and Its Antibacterial Properties. Biomimetics, 2022, 7, 91. | 3.3 | 2 |
| 87 | Direct Conversion Biogas to Multiwall Carbon Nanotubes and Syngas over Starch Derived Ni@C Nanoparticles. Microscopy and Microanalysis, 2015, 21, 1829-1830. | 0.4 | 1 |
| 88 | Pilot-Plant Production of Gas-to-Liquid Synthetic Fuel Using Gasified Biomass over a Novel Biochar-Supported Catalyst. Transactions of the ASABE, 2016, 59, 1485-1496. | 1.1 | 1 |
| 89 | The complete chloroplast genome of aquilegia rockii, an endemic herb plant in Western China. Mitochondrial DNA Part B: Resources, 2019, 4, 1737-1738. | 0.4 | 1 |
| 90 | Hydrodeoxygenation (HDO) of Bio-oil Model Compounds with Synthesis Gas Using a Waterâ€“Gas Shift Catalyst with a Mo/Co/K Catalyst. , 2015, , 1-34. | | 1 |

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|---|---|---|---|
| 91 | Synthesis and Characterization of Two Novel Stigmasterol-Based Cationic Lipids. Letters in Organic Chemistry, 2008, 5, 313-315. | 0.5 | 0 |
| 92 | Scale-Up of Liquid Hydrocarbon Production using Gasified Biomass. , 2012, , . | | 0 |
| 93 | Sandwiched SiO2@Ni@ZrO2 as a Coke Resistant Nanocatalyst for Carbon Dioxide Reforming with Addition of Methane. , 2019, , . | | 0 |
| 94 | Structure-Performance Evolution of Cobalt-Ammonia Activated Carbon Catalyst for Ethylene Oligomerization. Catalysis Letters, 0, , 1. | 2.6 | 0 |
| 95 | | | |