

Lun Pan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

207
papers

12,045
citations

57
h-index

105
g-index

222
ext. papers

15,213
ext. citations

9.6
avg, IF

6.9
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 207 | Synthesis of caged high-energy-density fuel as potential high-performance energetic additive for liquid aerospace fuel. <i>Fuel Processing Technology</i> , 2022 , 229, 107179 | 7.2 | 0 |
| 206 | Surface states modulation of hematite photoanodes for enhancing photoelectrochemical catalysis. <i>Chemical Engineering Science</i> , 2022 , 250, 117397 | 4.4 | 0 |
| 205 | Bifunctional core-shell nAl@MOF energetic particles with enhanced ignition and combustion performance. <i>Chemical Engineering Journal</i> , 2022 , 430, 132909 | 14.7 | 3 |
| 204 | Synthesis and performance of cyclopropanated pinanes with high density and high specific impulse. <i>Fuel</i> , 2022 , 307, 121906 | 7.1 | 4 |
| 203 | Catalytic synthesis of high-energy-density jet-fuel-range polycyclic fuel by dimerization reaction. <i>Fuel</i> , 2022 , 308, 122077 | 7.1 | 4 |
| 202 | Effect of phenolic antioxidants on the thermal oxidation stability of high-energy-density fuel. <i>Chemical Engineering Science</i> , 2022 , 247, 117056 | 4.4 | 2 |
| 201 | Dual co-catalysts decorated Zn-WO ₃ nanorod arrays with highly efficient photoelectrocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 13641-13653 | 6.7 | 1 |
| 200 | Boosting photoelectrochemical water splitting by Au@Pt modified ZnO/CdS with synergy of Au-S bonds and surface plasmon resonance. <i>Journal of Catalysis</i> , 2022 , 408, 196-205 | 7.3 | 2 |
| 199 | Self-supporting NiCoP for hydrogen generation via hydrolysis of ammonia borane. <i>Fuel</i> , 2022 , 318, 123544 | 4.4 | 2 |
| 198 | Synthesis of advanced fuel with density higher than 1g/mL by photoinduced [2+2] cycloaddition of norbornene. <i>Fuel</i> , 2022 , 318, 123629 | 7.1 | 0 |
| 197 | High energy density renewable fuels based on multicyclic sesquiterpene: Synthesis and performance. <i>Fuel</i> , 2022 , 318, 123665 | 7.1 | 0 |
| 196 | The dynamics and mechanism of JP-10 thermal oxidative deposition. <i>Fuel</i> , 2022 , 321, 124093 | 7.1 | 0 |
| 195 | Rational Design of Better Hydrogen Evolution Electrocatalysts for Water Splitting: A Review.. <i>Advanced Science</i> , 2022 , e2200307 | 13.6 | 8 |
| 194 | Alkyl-adamantane as high-density endothermic fuel: Synthesis and thermal cracking performance. <i>Fuel</i> , 2022 , 324, 124688 | 7.1 | 0 |
| 193 | Engineering interfacial band bending over bismuth vanadate/carbon nitride by work function regulation for efficient solar-driven water splitting. <i>Science Bulletin</i> , 2021 , 67, 389-389 | 10.6 | 11 |
| 192 | Methane Dry Reforming by Ni-Cu Nanoalloys Anchored on Periclase-Phase MgAlO Nanosheets for Enhanced Syngas Production. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48838-48854 | 9.5 | 6 |
| 191 | Pt/Fe ₂ O ₃ with PtFe pair sites as a catalyst for oxygen reduction with ultralow Pt loading. <i>Nature Energy</i> , 2021 , 6, 614-623 | 62.3 | 81 |

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| 190 | Review on Bismuth-Based Photocatalyst for CO ₂ Conversion. <i>ChemNanoMat</i> , 2021 , 7, 684-698 | 3.5 | 9 |
| 189 | Boosting hydrogen production from steam reforming of ethanol on nickel by lanthanum doped ceria. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119884 | 21.8 | 22 |
| 188 | Photocatalytic Synthesis of High-Energy-Density Fuel: Catalysts, Mechanisms, and Challenges. <i>Transactions of Tianjin University</i> , 2021 , 27, 280-294 | 2.9 | 4 |
| 187 | Synthesis and comprehensive fuel properties of mono-substituted alkyl adamantanes for advanced aerospace propulsion. <i>Fuel Processing Technology</i> , 2021 , 218, 106842 | 7.2 | 6 |
| 186 | Perspective on synthesis of high-energy-density fuels: From petroleum to coal-based pathway. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 35, 83-91 | 3.2 | 3 |
| 185 | Donor-acceptor carbon nitride with electron-withdrawing chlorine group to promote exciton dissociation. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1168-1175 | 11.3 | 6 |
| 184 | Water-tolerant phosphotungstic acid catalyst for controllable synthesis of high-performance biojet fuel. <i>Chemical Engineering Science</i> , 2021 , 238, 116592 | 4.4 | 0 |
| 183 | Synthesis and Performance of Strained Multicyclic Hydrocarbons as Highly Potential High-Energy-Density Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10978-10987 | 3.9 | 7 |
| 182 | Improving low-temperature properties of lignin-derived jet-fuel-ranged hydrocarbons via hydroisomerization. <i>Catalysis Today</i> , 2021 , 365, 235-240 | 5.3 | 1 |
| 181 | A comprehensive review of the thermal oxidation stability of jet fuels. <i>Chemical Engineering Science</i> , 2021 , 229, 116157 | 4.4 | 14 |
| 180 | Review on the Relationship Between Liquid Aerospace Fuel Composition and Their Physicochemical Properties. <i>Transactions of Tianjin University</i> , 2021 , 27, 87-109 | 2.9 | 20 |
| 179 | Harvesting urbach tail energy of ultrathin amorphous nickel oxide for solar-driven overall water splitting up to 680 nm. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119798 | 21.8 | 11 |
| 178 | Recent Progress on the Development of Carbon Nitride Based All-Solid Z-Scheme Photocatalyst for Solar Energy Conversion Applications. <i>Energy Technology</i> , 2021 , 2000950 | 3.5 | 5 |
| 177 | The kinetic mechanism of acetylene hydrogenation to prepare ethane over Fe _x O _y clusters: A DFT study. <i>Chemical Engineering Science</i> , 2021 , 230, 116170 | 4.4 | 5 |
| 176 | Catalytic steam reforming and heat sink of high-energy-density fuels: Correlation of reaction behaviors with molecular structures. <i>Fuel</i> , 2021 , 286, 119371 | 7.1 | 7 |
| 175 | Mechanistic insights into the thermal oxidative deposition of C ₁₀ hydrocarbon fuels. <i>Fuel</i> , 2021 , 285, 119136 | 7.1 | 4 |
| 174 | Performance characteristics of a scramjet engine using JP-10 fuel containing aluminum nanoparticles. <i>Acta Astronautica</i> , 2021 , 185, 70-77 | 2.9 | 8 |
| 173 | Co-conversion of lignocellulosic derivatives to jet fuel blending by an efficient hydrophobic acid resin. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120181 | 21.8 | 8 |

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| 172 | Self-supporting NiFe LDH-MoS integrated electrode for highly efficient water splitting at the industrial electrolysis conditions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1732-1741 | 11.3 | 13 |
| 171 | Computational estimation on the propulsion performance of polycyclic hydrocarbons. <i>Chemical Engineering Science</i> , 2021 , 246, 116874 | 4.4 | 2 |
| 170 | Pd/FeO with Electronic Coupling Single-Site Pd-Fe Pair Sites for Low-Temperature Semihydrogenation of Alkynes.. <i>Journal of the American Chemical Society</i> , 2021 , | 16.4 | 11 |
| 169 | Mechanistic insights into the thermal deposition of highly thermal-stable jet fuel. <i>Fuel</i> , 2020 , 276, 118109 | 9.1 | 8 |
| 168 | Mo-doped Ni-based catalyst for remarkably enhancing catalytic hydrogen evolution of hydrogen-storage materials. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 15560-15570 | 6.7 | 10 |
| 167 | Development History and Basics of Aerospace Fuels 2020 , 5-38 | | 0 |
| 166 | Design and Synthesis of Green Hypergolic Ionic Liquid Fuels 2020 , 377-436 | | |
| 165 | Manipulating electronic delocalization of Mn ₃ O ₄ by manganese defects for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119247 | 21.8 | 30 |
| 164 | Low-temperature synthesis of ultrasmall spinel MnxCo _{3-x} O ₄ nanoparticles for efficient oxygen reduction. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1818-1825 | 11.3 | 4 |
| 163 | Influence of quadricyclane additive on ignition and combustion properties of high-density JP-10 fuel. <i>Fuel</i> , 2020 , 276, 118047 | 7.1 | 8 |
| 162 | Solid-acid-mediated electronic structure regulation of electrocatalysts and scaling relation breaking of oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119237 | 21.8 | 21 |
| 161 | Design and Synthesis of High-Energy Strained Fuels 2020 , 149-239 | | |
| 160 | Combustion Properties of Fuels and Methods to Improve Them 2020 , 437-473 | | |
| 159 | Synthesis and Characterization of Gelled High-Density Fuels with Low-Molecular Mass Gellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 1018-1026 | 1.7 | 5 |
| 158 | Advances in Piezo-Phototronic Effect Enhanced Photocatalysis and Photoelectrocatalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 2000214 | 21.8 | 146 |
| 157 | Synthesis of strained high-energy rocket bio-kerosene via cyclopropanation of myrcene. <i>Fuel Processing Technology</i> , 2020 , 201, 106339 | 7.2 | 16 |
| 156 | Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. <i>Nanoscale</i> , 2020 , 12, 4790-4815 | 7.7 | 126 |
| 155 | Manipulating spin polarization of titanium dioxide for efficient photocatalysis. <i>Nature Communications</i> , 2020 , 11, 418 | 17.4 | 111 |

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| 154 | Low-Spin-State Hematite with Superior Adsorption of Anionic Contaminations for Water Purification. <i>Advanced Materials</i> , 2020 , 32, e1905988 | 24 | 30 |
| 153 | Ni-modified MoS nanoflake arrays with stepped sites on carbon nanotubes for efficient hydrodesulfurization of coal-to-liquid fuel. <i>Chemical Communications</i> , 2020 , 56, 5540-5543 | 5.8 | 5 |
| 152 | Engineering Facets and Oxygen Vacancies over Hematite Single Crystal for Intensified Electrocatalytic H ₂ O ₂ Production. <i>Advanced Functional Materials</i> , 2020 , 30, 1910539 | 15.6 | 35 |
| 151 | Regioselective Synthesis of Methyl-Substituted Adamantanes for Promoting Oxidation Stability of High-Density Fuels. <i>Energy & Fuels</i> , 2020 , 34, 4516-4524 | 4.1 | 9 |
| 150 | Design and Construction of Cocatalysts for Photocatalytic Water Splitting. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 36, 1905007-0 | 3.8 | 25 |
| 149 | Design and Synthesis of High-Density Diamondoid Fuels 2020 , 101-148 | | |
| 148 | Design and Synthesis of Nanofluid Fuels 2020 , 291-375 | | |
| 147 | Design and Synthesis of High-Density Fuels from Biomass 2020 , 241-289 | | 1 |
| 146 | Reduced graphene oxide enhanced emulsification for one-pot synthesis of high-density jet fuel. <i>Fuel</i> , 2020 , 275, 117962 | 7.1 | 4 |
| 145 | Self-photosensitized [2 + 2] cycloaddition for synthesis of high-energy-density fuels. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 911-920 | 5.8 | 9 |
| 144 | Regulating the Spin State of Fe by Atomically Anchoring on Ultrathin Titanium Dioxide for Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2313-2317 | 16.4 | 91 |
| 143 | Impact of deep hydrogenation on jet fuel oxidation and deposition. <i>Fuel</i> , 2020 , 264, 116843 | 7.1 | 15 |
| 142 | Promotion of Nitrogen Reserve and Electronic Regulation in Bamboo-like Carbon Tubules by Cobalt Nanoparticles for Highly Efficient ORR. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2323-2330 | 6.1 | 10 |
| 141 | Regulating the Spin State of FeIII by Atomically Anchoring on Ultrathin Titanium Dioxide for Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2020 , 132, 2333-2337 | 3.6 | 10 |
| 140 | Producing methylcyclopentadiene dimer and trimer based high-performance jet fuels using 5-methyl furfural. <i>Green Chemistry</i> , 2020 , 22, 7765-7768 | 10 | 16 |
| 139 | Enhanced Thermal Oxidation Stability of Jet Fuel by Deoxygenation Treatment. <i>Chemistry and Technology of Fuels and Oils</i> , 2020 , 56, 627-637 | 0.4 | 1 |
| 138 | Synthesis of high-density flammable hydrocarbon as potential hypergolic fuel and ignition additive of high-density fuels. <i>Combustion and Flame</i> , 2020 , 222, 252-258 | 5.3 | 14 |
| 137 | In Situ-Grown CobaltIron Phosphide-Based Integrated Electrode for Long-Term Water Splitting under a Large Current Density at the Industrial Electrolysis Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17828-17838 | 8.3 | 26 |

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| 136 | Heterogeneous Photocatalytic Organic Transformation Reactions Using Conjugated Polymers-Based Materials. <i>ACS Catalysis</i> , 2020 , 10, 12256-12283 | 13.1 | 60 |
| 135 | Role of Vacancies in Photocatalysis: A Review of Recent Progress. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3599-3619 | 4.5 | 23 |
| 134 | Tailoring the hetero-structure of iron oxides in the framework of nitrogen doped carbon for the oxygen reduction reaction and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25791-25804 | 13 | 6 |
| 133 | Insights into the Pt (111) Surface Aid in Predicting the Selective Hydrogenation Catalyst. <i>Catalysts</i> , 2020 , 10, 1473 | 4 | 0 |
| 132 | Visible-light-induced unbalanced charge on NiCoP/TiO ₂ sensitized system for rapid H ₂ generation from hydrolysis of ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118183 | 21.8 | 45 |
| 131 | Synthesis and thermal stability of dimethyl adamantanes as high-density and high-thermal-stability fuels. <i>Fuel</i> , 2020 , 260, 116424 | 7.1 | 14 |
| 130 | Zeolite catalytic synthesis of high-performance jet-fuel-range spiro-fuel by one-pot Mannich-Diels-Alder reaction. <i>AIChE Journal</i> , 2020 , 66, e16789 | 3.6 | 11 |
| 129 | A CoMo ₂ N composite on a nitrogen-doped carbon matrix with hydrogen evolution activity comparable to that of Pt/C in alkaline media. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20579-20583 | 13 | 27 |
| 128 | Photoinduced cycloaddition of biomass derivatives to obtain high-performance spiro-fuel. <i>Green Chemistry</i> , 2019 , 21, 5886-5895 | 10 | 17 |
| 127 | Breaking Trade-Off between Selectivity and Activity of Nickel-Based Hydrogenation Catalysts by Tuning Both Steric Effect and d-Band Center. <i>Advanced Science</i> , 2019 , 6, 1900054 | 13.6 | 33 |
| 126 | Ni-Doped BiVO ₄ with V ⁴⁺ Species and Oxygen Vacancies for Efficient Photoelectrochemical Water Splitting. <i>Transactions of Tianjin University</i> , 2019 , 25, 340-347 | 2.9 | 25 |
| 125 | MnO _x -decorated 3D porous C ₃ N ₄ with internal donor-acceptor motifs for efficient photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117805 | 21.8 | 50 |
| 124 | Bimetallic phosphide decorated Mo-BiVO for significantly improved photoelectrochemical activity and stability.. <i>RSC Advances</i> , 2019 , 9, 15629-15634 | 3.7 | 11 |
| 123 | Structure-Activity Relationship of Defective Metal-Based Photocatalysts for Water Splitting: Experimental and Theoretical Perspectives. <i>Advanced Science</i> , 2019 , 6, 1900053 | 13.6 | 126 |
| 122 | Grain boundaries modified uniformly-conjoint metal/oxides via binder strategy as efficient bifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10010-10018 | 13 | 16 |
| 121 | Water Splitting: Rational Design and Construction of Cocatalysts for Semiconductor-Based Photo-Electrochemical Oxygen Evolution: A Comprehensive Review (Adv. Sci. 2/2019). <i>Advanced Science</i> , 2019 , 6, 1970013 | 13.6 | 5 |
| 120 | Rational Structure Optimized Hybrid Nanogenerator for Highly Efficient Water Wave Energy Harvesting. <i>Advanced Energy Materials</i> , 2019 , 9, 1802892 | 21.8 | 55 |
| 119 | Direct-Current Rotary-Tubular Triboelectric Nanogenerators Based on Liquid-Dielectrics Contact for Sustainable Energy Harvesting and Chemical Composition Analysis. <i>ACS Nano</i> , 2019 , 13, 2587-2598 | 16.7 | 49 |

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| 118 | Polarization-Enhanced direct Z-scheme ZnO-WO ₃ -x nanorod arrays for efficient piezoelectric-photoelectrochemical Water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118079 | 21.8 | 62 |
| 117 | Integrating Pt@Ni(OH) ₂ nanowire and Pt nanoparticle on C ₃ N ₄ with fast surface kinetics and charge transfer towards highly efficient photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118028 | 21.8 | 21 |
| 116 | Highly dispersed Fe ₂ O ₃ embedded in nitrogen doped carbon for the efficient oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2019 , 9, 4581-4587 | 5.5 | 9 |
| 115 | Engineering oxygen vacancies and nickel dispersion on CeO ₂ by Pr doping for highly stable ethanol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117940 | 21.8 | 57 |
| 114 | High yield one-pot synthesis of high density and low freezing point jet-fuel-ranged blending from bio-derived phenol and cyclopentanol. <i>Chemical Engineering Science</i> , 2019 , 207, 441-447 | 4.4 | 18 |
| 113 | Boosting Oxygen Evolution Kinetics by Mn ^{II} Motifs with Tunable Spin State for Highly Efficient Solar-Driven Water Splitting. <i>Advanced Energy Materials</i> , 2019 , 9, 1901505 | 21.8 | 61 |
| 112 | Defected ZnWO ₄ -decorated WO ₃ nanorod arrays for efficient photoelectrochemical water splitting.. <i>RSC Advances</i> , 2019 , 9, 5492-5500 | 3.7 | 15 |
| 111 | 2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 2089-2109 | 10.9 | 59 |
| 110 | Acid-catalyzed rearrangement of tetrahydrotricyclopentadiene for synthesis of high density alkyl-diamondoid fuel. <i>Fuel</i> , 2019 , 239, 652-658 | 7.1 | 17 |
| 109 | Controllable fabrication of homogeneous ZnO p-n junction with enhanced charge separation for efficient photocatalysis. <i>Catalysis Today</i> , 2019 , 335, 151-159 | 5.3 | 41 |
| 108 | Rational Design and Construction of Cocatalysts for Semiconductor-Based Photo-Electrochemical Oxygen Evolution: A Comprehensive Review. <i>Advanced Science</i> , 2019 , 6, 1801505 | 13.6 | 73 |
| 107 | Metal-defected spinel Mn _x Co _{3-x} O ₄ with octahedral Mn-enriched surface for highly efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 536-545 | 21.8 | 87 |
| 106 | Photoinduced composite of Pt decorated Ni(OH) ₂ as strongly synergetic cocatalyst to boost H ₂ O activation for photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 253-261 | 21.8 | 69 |
| 105 | Synthesis of high-density liquid fuel via Diels-Alder reaction of dicyclopentadiene and lignocellulose-derived 2-methylfuran. <i>Catalysis Today</i> , 2019 , 319, 139-144 | 5.3 | 17 |
| 104 | Review on selective hydrogenation of nitroarene by catalytic, photocatalytic and electrocatalytic reactions. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 386-408 | 21.8 | 226 |
| 103 | One-pot production of branched decalins as high-density jet fuel from monocyclic alkanes and alcohols. <i>Chemical Engineering Science</i> , 2018 , 180, 64-69 | 4.4 | 29 |
| 102 | Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. <i>Nano Research</i> , 2018 , 11, 4062-4073 | 10 | 99 |
| 101 | Complementary Electromagnetic-Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. <i>Advanced Functional Materials</i> , 2018 , 28, 1705808 | 15.6 | 68 |

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|-----|---|------|-----|
| 100 | Fe-TiO ₂ and Fe ₂ O ₃ quantum dots co-loaded on MCM-41 for removing aqueous rose bengal by combined adsorption/photocatalysis. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 920-928 | 11.3 | 24 |
| 99 | Engineering Cobalt Defects in Cobalt Oxide for Highly Efficient Electrocatalytic Oxygen Evolution. <i>ACS Catalysis</i> , 2018 , 8, 3803-3811 | 13.1 | 276 |
| 98 | Self-Powered Wind Sensor System for Detecting Wind Speed and Direction Based on a Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018 , 12, 3954-3963 | 16.7 | 143 |
| 97 | Role of oxygen vacancies in photocatalytic water oxidation on ceria oxide: Experiment and DFT studies. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 101-108 | 21.8 | 124 |
| 96 | Oxygen-doped nanoporous carbon nitride via water-based homogeneous supramolecular assembly for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 9-16 | 21.8 | 153 |
| 95 | Multi-layer monoclinic BiVO ₄ with oxygen vacancies and V ⁴⁺ species for highly efficient visible-light photoelectrochemical applications. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 187-195 | 21.8 | 127 |
| 94 | Ultradispersed Nickel Phosphide on Phosphorus-Doped Carbon with Tailored d-Band Center for Efficient and Chemoselective Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2018 , 8, 8420-8429 | 13.1 | 96 |
| 93 | Synthesis of high-density and low-freezing-point jet fuel using lignocellulose-derived isophorone and furanic aldehydes. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1863-1869 | 5.8 | 30 |
| 92 | DFT study on water oxidation on nitrogen-doped ceria oxide. <i>Applied Surface Science</i> , 2018 , 452, 423-428. | 6.7 | 10 |
| 91 | Cobalt nanoparticles encapsulated in nitrogen-doped carbon for room-temperature selective hydrogenation of nitroarenes. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 664-672 | 11.3 | 23 |
| 90 | Raising the Working Temperature of a Triboelectric Nanogenerator by Quenching Down Electron Thermionic Emission in Contact-Electrification. <i>Advanced Materials</i> , 2018 , 30, e1803968 | 24 | 116 |
| 89 | Review on synthesis and properties of high-energy-density liquid fuels: Hydrocarbons, nanofluids and energetic ionic liquids. <i>Chemical Engineering Science</i> , 2018 , 180, 95-125 | 4.4 | 158 |
| 88 | Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes: Mechanisms, Challenges, and Prospective Solutions. <i>Advanced Science</i> , 2018 , 5, 1700464 | 13.6 | 647 |
| 87 | Acetylene Solubility in High-Energy-Density Fuels Enhanced by Amines and Scrambled Cages. <i>Chemistry and Technology of Fuels and Oils</i> , 2018 , 54, 599-605 | 0.4 | 1 |
| 86 | Iron phosphide encapsulated in P-doped graphitic carbon as efficient and stable electrocatalyst for hydrogen and oxygen evolution reactions. <i>Nanoscale</i> , 2018 , 10, 21327-21334 | 7.7 | 58 |
| 85 | An Ultra-Low-Friction Triboelectric-Electromagnetic Hybrid Nanogenerator for Rotation Energy Harvesting and Self-Powered Wind Speed Sensor. <i>ACS Nano</i> , 2018 , 12, 9433-9440 | 16.7 | 178 |
| 84 | Structure and Activity Transition from Oxidized to Metallic Tungsten for Catalytic Hydrogenation: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23053-23061 | 3.8 | 4 |
| 83 | Synthesis of high-performance jet fuel blends from biomass-derived 4-ethylphenol and phenylmethanol. <i>Chemical Engineering Science</i> , 2018 , 191, 343-349 | 4.4 | 17 |

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|----|---|------|-----|
| 82 | Storage period prediction and metal compatibility of endothermic hydrocarbon fuels. <i>Fuel</i> , 2018 , 233, 1-9 | 7.1 | 6 |
| 81 | Unraveling the facet-dependent and oxygen vacancy role for ethylene hydrogenation on Co ₃ O ₄ (110) surface: A DFT+U study. <i>Applied Surface Science</i> , 2017 , 401, 241-247 | 6.7 | 22 |
| 80 | C-doped ZnO ball-in-ball hollow microspheres for efficient photocatalytic and photoelectrochemical applications. <i>Journal of Hazardous Materials</i> , 2017 , 331, 235-245 | 12.8 | 54 |
| 79 | Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review. <i>Nano Energy</i> , 2017 , 37, 136-157 | 17.1 | 860 |
| 78 | Synthesis of high-density biofuel with excellent low-temperature properties from lignocellulose-derived feedstock. <i>Fuel Processing Technology</i> , 2017 , 163, 45-50 | 7.2 | 33 |
| 77 | Highly efficient Z-scheme WO ₃ quantum dots/TiO ₂ for photocatalytic hydrogen generation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 253-259 | 11.3 | 78 |
| 76 | Switching charge transfer of C ₃ N ₄ /W ₁₈ O ₄₉ from type-II to Z-scheme by interfacial band bending for highly efficient photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2017 , 40, 308-316 | 17.1 | 235 |
| 75 | High-Valence-State NiO/Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. <i>ACS Energy Letters</i> , 2017 , 2, 2177-2182 | 20.1 | 150 |
| 74 | Renewable high-density spiro-fuels from lignocellulose-derived cyclic ketones. <i>Chemical Communications</i> , 2017 , 53, 10303-10305 | 5.8 | 39 |
| 73 | Well-dispersed molybdenum nitrides on a nitrogen-doped carbon matrix for highly efficient hydrogen evolution in alkaline media. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20932-20937 | 13 | 72 |
| 72 | Hydrogenated intramolecular cyclization of diphenylmethane derivatives for synthesizing high-density biofuel. <i>Chemical Engineering Science</i> , 2017 , 173, 91-97 | 4.4 | 37 |
| 71 | Phosphorus-Doped and Lattice-Defective Carbon as Metal-like Catalyst for the Selective Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2017 , 9, 4287-4294 | 5.2 | 38 |
| 70 | CoP nanoparticles embedded in P and N co-doped carbon as efficient bifunctional electrocatalyst for water splitting. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1223-1230 | 12 | 78 |
| 69 | Lignin-derived multi-cyclic high density biofuel by alkylation and hydrogenated intramolecular cyclization. <i>Chemical Engineering Science</i> , 2017 , 158, 64-69 | 4.4 | 48 |
| 68 | Hydrophobic mesoporous acidic resin for hydroxyalkylation/alkylation of 2-methylfuran and ketone to high-density biofuel. <i>AIChE Journal</i> , 2017 , 63, 680-688 | 3.6 | 50 |
| 67 | Surfactant-Assisted Synthesis and Photocatalytic Activity of Anatase TiO ₂ Nanocrystals. <i>Science of Advanced Materials</i> , 2017 , 9, 782-789 | 2.3 | 6 |
| 66 | Constructing TiO ₂ p-n homojunction for photoelectrochemical and photocatalytic hydrogen generation. <i>Nano Energy</i> , 2016 , 28, 296-303 | 17.1 | 165 |
| 65 | Efficient water oxidation through strongly coupled graphitic C ₃ N ₄ coated cobalt hydroxide nanowires. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12940-12946 | 13 | 70 |

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| 64 | Shock tube study on ignition delay of hydrogen and evaluation of various kinetic models. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13261-13280 | 6.7 | 19 |
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| 48 | A high pressure shock tube study of 1-butene oxidation and its comparison with n-butane and alkenes. <i>Fuel</i> , 2015 , 157, 21-27 | 7.1 | 22 |
| 47 | Oxygen-Deficient Tungsten Oxide as Versatile and Efficient Hydrogenation Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 6594-6599 | 13.1 | 189 |

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| 43 | Carbon nitride with simultaneous porous network and O-doping for efficient solar-energy-driven hydrogen evolution. <i>Nano Energy</i> , 2015 , 12, 646-656 | 17.1 | 420 |
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| 24 | Shock-Tube Measurements and Kinetic Modeling Study of Methyl Propanoate Ignition. <i>Energy & Fuels</i> , 2014 , 28, 7194-7202 | 4.1 | 34 |
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| 3 | NiCo-Based Electrocatalysts for the Alkaline Oxygen Evolution Reaction: A Review. <i>ACS Catalysis</i> ,12485-13509 | 39 | |
| 2 | Advances in Oxygen Evolution Electrocatalysts for Proton Exchange Membrane Water Electrolyzers. <i>Advanced Energy Materials</i> ,2103670 | 21.8 | 10 |
| 1 | Review on design, preparation and performance characterization of gelled fuels for advanced propulsion. <i>Frontiers of Chemical Science and Engineering</i> ,1 | 4.5 | 2 |