

Lun Pan

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207
papers

12,045
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222
ext. papers

15,213
ext. citations

9.6
avg, IF

6.9
L-index

#	Paper	IF	Citations
207	Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review. <i>Nano Energy</i> , 2017 , 37, 136-157	17.1	860
206	Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes: Mechanisms, Challenges, and Prospective Solutions. <i>Advanced Science</i> , 2018 , 5, 1700464	13.6	647
205	Hollow Cobalt-Based Bimetallic Sulfide Polyhedra for Efficient All-pH-Value Electrochemical and Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1359-65	16.4	540
204	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
203	Titanium-defected undoped anatase TiO ₂ with p-type conductivity, room-temperature ferromagnetism, and remarkable photocatalytic performance. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2975-83	16.4	407
202	Nanostructured bismuth vanadate-based materials for solar-energy-driven water oxidation: a review on recent progress. <i>Nanoscale</i> , 2014 , 6, 14044-63	7.7	382
201	Tungsten Oxides for Photocatalysis, Electrochemistry, and Phototherapy. <i>Advanced Materials</i> , 2015 , 27, 5309-27	24	381
200	Engineering Cobalt Defects in Cobalt Oxide for Highly Efficient Electrocatalytic Oxygen Evolution. <i>ACS Catalysis</i> , 2018 , 8, 3803-3811	13.1	276
199	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
198	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
197	Water-mediated promotion of dye sensitization of TiO ₂ under visible light. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10000-2	16.4	217
196	MOF-derived C-doped ZnO prepared via a two-step calcination for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016 , 189, 181-191	21.8	211
195	Oxygen-Deficient Tungsten Oxide as Versatile and Efficient Hydrogenation Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 6594-6599	13.1	189
194	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
193	Constructing TiO ₂ p-n homojunction for photoelectrochemical and photocatalytic hydrogen generation. <i>Nano Energy</i> , 2016 , 28, 296-303	17.1	165
192	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
191	Direct Z-scheme composite of CdS and oxygen-defected CdWO ₄ : An efficient visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 154-161	21.8	154

190	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
189	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
188	Advances in Piezo-Phototronic Effect Enhanced Photocatalysis and Photoelectrocatalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 2000214	21.8	146
187	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
186	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
185	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
184	Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. <i>Nanoscale</i> , 2020 , 12, 4790-4815	7.7	126
183	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
182	Highly selective self-condensation of cyclic ketones using MOF-encapsulating phosphotungstic acid for renewable high-density fuel. <i>Green Chemistry</i> , 2015 , 17, 4473-4481	10	121
181	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
180	Undoped ZnO abundant with metal vacancies. <i>Nano Energy</i> , 2014 , 9, 71-79	17.1	112
179	Manipulating spin polarization of titanium dioxide for efficient photocatalysis. <i>Nature Communications</i> , 2020 , 11, 418	17.4	111
178	Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. <i>Nano Research</i> , 2018 , 11, 4062-4073	10	99
177	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
176	Morphology evolution of TiO ₂ facets and vital influences on photocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1650-5	9.5	94
175	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
174	Photoisomerization of Norbornadiene to Quadricyclane Using Transition Metal Doped TiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8526-8531	3.9	89
173	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

172	Synergetic promotion on photoactivity and stability of W18O49/TiO2 hybrid. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 167-174	21.8	85
171	Efficient synthesis of high-density aviation biofuel via solvent-free aldol condensation of cyclic ketones and furanic aldehydes. <i>Fuel Processing Technology</i> , 2016 , 148, 361-366	7.2	82
170	Pt/Fe2O3 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
169	Cu2O Film via Hydrothermal Redox Approach: Morphology and Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16335-16343	3.8	79
168	Highly efficient Z-scheme WO3 quantum dots/TiO2 for photocatalytic hydrogen generation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 253-259	11.3	78
167	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
166	TiO2/nO Composite Sphere Decorated with ZnO Clusters for Effective Charge Isolation in Photocatalysis. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7226-7232	3.9	76
165	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
164	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
163	Efficient water oxidation through strongly coupled graphitic C3N4 coated cobalt hydroxide nanowires. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12940-12946	13	70
162	Quantum dot self-decorated TiO2 nanosheets. <i>Chemical Communications</i> , 2013 , 49, 6593-5	5.8	69
161	Photoinduced composite of Pt decorated Ni(OH)2 as strongly synergetic cocatalyst to boost H2O activation for photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 253-261	21.8	69
160	Complementary Electromagnetic-Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. <i>Advanced Functional Materials</i> , 2018 , 28, 1705808	15.6	68
159	W18O49 nanowire alignments with a BiOCl shell as an efficient photocatalyst. <i>Nanoscale</i> , 2014 , 6, 8865-72	7.7	67
158	Mesoporous WO3 hollow spheres as highly active photocatalysts. <i>Chemical Communications</i> , 2014 , 50, 10959-62	5.8	67
157	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , 2016 , 8, 18250-18269	7.7	66
156	Polarization-Enhanced direct Z-scheme ZnO-WO3-x nanorod arrays for efficient piezoelectric-photoelectrochemical Water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118079	21.8	62
155	Boosting Oxygen Evolution Kinetics by MnOx Motifs with Tunable Spin State for Highly Efficient Solar-Driven Water Splitting. <i>Advanced Energy Materials</i> , 2019 , 9, 1901505	21.8	61

154	Heterogeneous Photocatalytic Organic Transformation Reactions Using Conjugated Polymers-Based Materials. <i>ACS Catalysis</i> , 2020 , 10, 12256-12283	13.1	60
153	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 2089-2109	10.9	59
152	Enhancement of visible-light-induced photodegradation over hierarchical porous TiO ₂ by nonmetal doping and water-mediated dye sensitization. <i>Applied Surface Science</i> , 2013 , 268, 252-258	6.7	58
151	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
150	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
149	Rational Structure Optimized Hybrid Nanogenerator for Highly Efficient Water Wave Energy Harvesting. <i>Advanced Energy Materials</i> , 2019 , 9, 1802892	21.8	55
148	An experimental and kinetic modeling study of n-propanol and i-propanol ignition at high temperatures. <i>Combustion and Flame</i> , 2014 , 161, 644-656	5.3	55
147	Photocatalytic isomerization of norbornadiene to quadricyclane over metal (V, Fe and Cr)-incorporated TiO ₂ /MCM-41. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 439-445	21.8	55
146	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
145	Ti(3+)-defected and V-doped TiO ₂ quantum dots loaded on MCM-41. <i>Chemical Communications</i> , 2014 , 50, 988-90	5.8	52
144	Ag ₃ PO ₄ /TiO ₂ composite for efficient photodegradation of organic pollutants under visible light. <i>Applied Surface Science</i> , 2014 , 317, 833-838	6.7	51
143	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
142	Further study on the ignition delay times of propane/hydrogen/oxygen/argon mixtures: Effect of equivalence ratio. <i>Combustion and Flame</i> , 2013 , 160, 2283-2290	5.3	50
141	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
140	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
139	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
138	Visible-Light-Induced Photodegradation of Rhodamine B over Hierarchical TiO ₂ : Effects of Storage Period and Water-Mediated Adsorption Switch. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 12782-12786	3.9	47
137	Experimental and numerical study on the effect of composition on laminar burning velocities of H ₂ /CO/N ₂ /CO ₂ /air mixtures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18509-18519	6.7	47

136	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
135	Experimental and kinetic study on ignition delay times of DME/H ₂ /O ₂ /Ar mixtures. <i>Combustion and Flame</i> , 2014 , 161, 735-747	5.3	44
134	Al-Nanoparticle-Containing Nanofluid Fuel: Synthesis, Stability, Properties, and Propulsion Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2738-2745	3.9	44
133	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
132	Controllable sonochemical synthesis of Cu ₂ O/Cu ₂ (OH) ₃ NO ₃ composites toward synergy of adsorption and photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 234-240	21.8	40
131	Renewable high-density spiro-fuels from lignocellulose-derived cyclic ketones. <i>Chemical Communications</i> , 2017 , 53, 10303-10305	5.8	39
130	NiCo-Based Electrocatalysts for the Alkaline Oxygen Evolution Reaction: A Review. <i>ACS Catalysis</i> , 2019 , 9, 12485-12509	13.5	39
129	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
128	Hydrogenated intramolecular cyclization of diphenylmethane derivatives for synthesizing high-density biofuel. <i>Chemical Engineering Science</i> , 2017 , 173, 91-97	4.4	37
127	Experimental and Kinetic Study on Ignition Delay Times of iso-Butanol. <i>Energy & Fuels</i> , 2014 , 28, 2160-2169	4.1	36
126	Iron Oxide as a Catalyst for Nitroarene Hydrogenation: Important Role of Oxygen Vacancies. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8527-8533	3.9	36
125	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
124	A solar-energy-derived strained hydrocarbon as an energetic hypergolic fuel. <i>RSC Advances</i> , 2014 , 4, 50998-51001	3.7	35
123	Shock-Tube Measurements and Kinetic Modeling Study of Methyl Propanoate Ignition. <i>Energy & Fuels</i> , 2014 , 28, 7194-7202	4.1	34
122	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
121	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
120	Experimental and Modeling Study on Ignition Delay Times of Dimethyl Ether/Propane/Oxygen/Argon Mixtures at 20 bar. <i>Energy & Fuels</i> , 2013 , 27, 4007-4013	4.1	33
119	Shock Tube Measurements and Kinetic Study on Ignition Delay Times of Lean DME/n-Butane Blends at Elevated Pressures. <i>Energy & Fuels</i> , 2013 , 27, 6238-6246	4.1	33

118	Development and validation of a reduced chemical kinetic model for dimethyl ether combustion. <i>Fuel</i> , 2015 , 160, 165-177	7.1	30
117	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
116	Low-Spin-State Hematite with Superior Adsorption of Anionic Contaminations for Water Purification. <i>Advanced Materials</i> , 2020 , 32, e1905988	24	30
115	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
114	Comparative Study of Experimental and Modeling Autoignition of Cyclohexane, Ethylcyclohexane, and n-Propylcyclohexane. <i>Energy & Fuels</i> , 2014 , 28, 7159-7167	4.1	30
113	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
112	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
111	Experimental and Modeling Study on Ignition Delay Times of Dimethyl Ether/n-Butane Blends at a Pressure of 2.0 MPa. <i>Energy & Fuels</i> , 2014 , 28, 2189-2198	4.1	27
110	Effect of pressure and equivalence ratio on the ignition characteristics of dimethyl ether-hydrogen mixtures. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19212-19223	6.7	26
109	Measurements and kinetic study on ignition delay times of propane/hydrogen in argon diluted oxygen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2523-2530	6.7	26
108	In Situ-Grown Cobalt-Iron 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
107	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
106	Comparative Study on Ignition Delay Times of C ₁₋₄ Alkanes. <i>Energy & Fuels</i> , 2013 , 27, 3480-3487	4.1	25
105	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
104	Experimental and kinetic study on ignition delay times of dimethyl carbonate at high temperature. <i>Fuel</i> , 2015 , 140, 626-632	7.1	24
103	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
102	Controlling surface and interface of TiO ₂ toward highly efficient photocatalysis. <i>Materials Letters</i> , 2015 , 160, 576-580	3.3	23
101	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

100	Role of Vacancies in Photocatalysis: A Review of Recent Progress. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3599-3619	4.5	23
99	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
98	Kinetic modeling study of hydrogen addition effects on ignition characteristics of dimethyl ether at engine-relevant conditions. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5221-5235	6.7	22
97	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
96	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
95	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
94	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
93	Shock tube and kinetic study of C ₂ H ₆ /H ₂ /O ₂ /Ar mixtures at elevated pressures. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6024-6033	6.7	21
92	Periodic density functional theory study of ethylene hydrogenation over Co ₃ O ₄ (1 1 1) surface: The critical role of oxygen vacancies. <i>Applied Surface Science</i> , 2016 , 371, 61-66	6.7	21
91	Shock-Tube Measurements of Ignition Delay Times for the Ethane/Dimethyl Ether Blends. <i>Energy & Fuels</i> , 2013 , 27, 6247-6254	4.1	20
90	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
89	Experimental and Kinetic Study on Ignition Delay Times of Dimethyl Ether at High Temperatures. <i>Energy & Fuels</i> , 2015 , 29, 3495-3506	4.1	19
88	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
87	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
86	A shock tube and kinetic modeling study of n-butanal oxidation. <i>Combustion and Flame</i> , 2013 , 160, 1541-1549	4.5	18
85	Photoinduced cycloaddition of biomass derivatives to obtain high-performance spiro-fuel. <i>Green Chemistry</i> , 2019 , 21, 5886-5895	10	17
84	Fabrication of TiO ₂ nanosheets via Ti ³⁺ doping and Ag ₃ PO ₄ QD sensitization for highly efficient visible-light photocatalysis. <i>RSC Advances</i> , 2016 , 6, 63984-63990	3.7	17
83	Acid-catalyzed rearrangement of tetrahydrotricyclopentadiene for synthesis of high density alkyl-diamondoid fuel. <i>Fuel</i> , 2019 , 239, 652-658	7.1	17

82	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
81	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
80	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
79	Synthesis of strained high-energy rocket bio-kerosene via cyclopropanation of myrcene. <i>Fuel Processing Technology</i> , 2020 , 201, 106339	7.2	16
78	Producing methylcyclopentadiene dimer and trimer based high-performance jet fuels using 5-methyl furfural. <i>Green Chemistry</i> , 2020 , 22, 7765-7768	10	16
77	Shock-Tube Study on Ethylcyclohexane Ignition. <i>Energy & Fuels</i> , 2014 , 28, 5505-5514	4.1	15
76	Impact of deep hydrogenation on jet fuel oxidation and deposition. <i>Fuel</i> , 2020 , 264, 116843	7.1	15
75	Defected ZnWO ₄ -decorated WO ₃ nanorod arrays for efficient photoelectrochemical water splitting.. <i>RSC Advances</i> , 2019 , 9, 5492-5500	3.7	15
74	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
73	Synthesis and thermal stability of dimethyl adamantanes as high-density and high-thermal-stability fuels. <i>Fuel</i> , 2020 , 260, 116424	7.1	14
72	A comprehensive review of the thermal oxidation stability of jet fuels. <i>Chemical Engineering Science</i> , 2021 , 229, 116157	4.4	14
71	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
70	Bimetallic phosphide decorated Mo-BiVO ₄ for significantly improved photoelectrochemical activity and stability.. <i>RSC Advances</i> , 2019 , 9, 15629-15634	3.7	11
69	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
68	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
67	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
66	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
65	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

64	DFT study on water oxidation on nitrogen-doped ceria oxide. <i>Applied Surface Science</i> , 2018 , 452, 423-428.	6.7	10
63	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
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