

Ji-Jun Zou

List of Publications by Year in descending order

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279
papers

20,434
citations

10486

72
h-index

12358

133
g-index

285
all docs

285
docs citations

285
times ranked

19056
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review. <i>Nano Energy</i> , 2017, 37, 136-157.	16.4	1,257
2	Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes: Mechanisms, Challenges, and Prospective Solutions. <i>Advanced Science</i> , 2018, 5, 1700464.	12.3	1,022
3	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, 1359-1365.	14.4	656
4	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, 2975-2983.	14.4	549
5	Carbon nitride with simultaneous porous network and O-doping for efficient solar-energy-driven hydrogen evolution. <i>Nano Energy</i> , 2015, 12, 646-656.	16.4	537
6	Tungsten Oxides for Photocatalysis, Electrochemistry, and Phototherapy. <i>Advanced Materials</i> , 2015, 27, 5309-5327.	24.2	492
7	Engineering Cobalt Defects in Cobalt Oxide for Highly Efficient Electrocatalytic Oxygen Evolution. <i>ACS Catalysis</i> , 2018, 8, 3803-3811.	11.6	430
8	Nanostructured bismuth vanadate-based materials for solar-energy-driven water oxidation: a review on recent progress. <i>Nanoscale</i> , 2014, 6, 14044-14063.	5.8	426
9	Review on selective hydrogenation of nitroarene by catalytic, photocatalytic and electrocatalytic reactions. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 386-408.	20.6	371
10	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.	16.4	346
11	Advances in Piezo-Phototronic Effect Enhanced Photocatalysis and Photoelectrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 2000214.	22.1	333
12	MOF-derived C-doped ZnO prepared via a two-step calcination for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 181-191.	20.6	287
13	Pt/Fe ₂ O ₃ with Pt-Fe pair sites as a catalyst for oxygen reduction with ultralow Pt loading. <i>Nature Energy</i> , 2021, 6, 614-623.	29.7	274
14	Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. <i>Nanoscale</i> , 2020, 12, 4790-4815.	5.8	269
15	Oxygen-Deficient Tungsten Oxide as Versatile and Efficient Hydrogenation Catalyst. <i>ACS Catalysis</i> , 2015, 5, 6594-6599.	11.6	252
16	Manipulating spin polarization of titanium dioxide for efficient photocatalysis. <i>Nature Communications</i> , 2020, 11, 418.	13.2	252
17	Water-Mediated Promotion of Dye Sensitization of TiO ₂ under Visible Light. <i>Journal of the American Chemical Society</i> , 2011, 133, 10000-10002.	14.4	238
18	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.	4.0	233

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19	Constructing TiO ₂ p-n homojunction for photoelectrochemical and photocatalytic hydrogen generation. <i>Nano Energy</i> , 2016, 28, 296-303.	16.4	231
20	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.	20.6	217
21	Regulating the Spin State of Fe ^{III} by Atomically Anchoring on Ultrathin Titanium Dioxide for Efficient Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2313-2317.	14.8	214
22	Structure-Activity Relationship of Defective Metal-Based Photocatalysts for Water Splitting: Experimental and Theoretical Perspectives. <i>Advanced Science</i> , 2019, 6, 1900053.	12.3	206
23	NiCo-Based Electrocatalysts for the Alkaline Oxygen Evolution Reaction: A Review. <i>ACS Catalysis</i> , 2021, 11, 12485-12509.	11.6	204
24	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.	17.9	200
25	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.	20.6	197
26	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.	20.6	196
27	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.	20.6	180
28	Heterogeneous Photocatalytic Organic Transformation Reactions Using Conjugated Polymers-Based Materials. <i>ACS Catalysis</i> , 2020, 10, 12256-12283.	11.6	161
29	Plasma application for more environmentally friendly catalyst preparation. <i>Pure and Applied Chemistry</i> , 2006, 78, 1227-1238.	1.6	153
30	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.	11.6	153
31	Undoped ZnO abundant with metal vacancies. <i>Nano Energy</i> , 2014, 9, 71-79.	16.4	151
32	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.	9.3	144
33	Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. <i>Nano Research</i> , 2018, 11, 4062-4073.	10.6	143
34	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.	20.6	140
35	Reduction of Supported Noble-Metal Ions Using Glow Discharge Plasma. <i>Langmuir</i> , 2006, 22, 11388-11394.	3.6	138
36	Control of the Metal-Support Interface of NiO-Loaded Photocatalysts via Cold Plasma Treatment. <i>Langmuir</i> , 2006, 22, 2334-2339.	3.6	121

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37	Boosting Oxygen Evolution Kinetics by Mn ²⁺ /N ³⁻ C Motifs with Tunable Spin State for Highly Efficient Solar-Driven Water Splitting. <i>Advanced Energy Materials</i> , 2019, 9, 1901505.	22.1	121
38	Rational Design of Better Hydrogen Evolution Electrocatalysts for Water Splitting: A Review. <i>Advanced Science</i> , 2022, 9, e2200307.	12.3	121
39	Rational Design and Construction of Cocatalysts for Semiconductor-Based Photo-Electrochemical Oxygen Evolution: A Comprehensive Review. <i>Advanced Science</i> , 2019, 6, 1801505.	12.3	120
40	A facile preparation of Ag ₂ O/P25 photocatalyst for selective reduction of nitrate. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 53-61.	20.6	117
41	Bifunctional catalysts of Co ₃ O ₄ @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. <i>Nano Research</i> , 2015, 8, 3725-3736.	10.6	117
42	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.	20.6	116
43	Silver-Zwitterion Organic-Inorganic Nanocomposite with Antimicrobial and Antiadhesive Capabilities. <i>Langmuir</i> , 2013, 29, 3773-3779.	3.6	113
44	Integrated Conversion of Cellulose to High-Density Aviation Fuel. <i>Joule</i> , 2019, 3, 1028-1036.	24.7	113
45	Modification of starch by glow discharge plasma. <i>Carbohydrate Polymers</i> , 2004, 55, 23-26.	10.5	112
46	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.	20.6	112
47	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.	20.6	110
48	Morphology Evolution of TiO ₂ Facets and Vital Influences on Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1650-1655.	8.2	105
49	Advances in Oxygen Evolution Electrocatalysts for Proton Exchange Membrane Water Electrolyzers. <i>Advanced Energy Materials</i> , 2022, 12, .	22.1	105
50	Synergetic promotion on photoactivity and stability of W ₁₈ O ₄₉ /TiO ₂ hybrid. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 167-174.	20.6	100
51	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	100
52	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.	10.5	100
53	Highly efficient Z-scheme WO _{3-x} quantum dots/TiO ₂ for photocatalytic hydrogen generation. <i>Chinese Journal of Catalysis</i> , 2017, 38, 253-259.	14.5	99
54	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.	13.3	98

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55	Cu ₂ O Film via Hydrothermal Redox Approach: Morphology and Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16335-16343.	3.2	95
56	Photoisomerization of Norbornadiene to Quadricyclane Using Transition Metal Doped TiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8526-8531.	3.7	94
57	Variable dimensional structure and interface design of g-C ₃ N ₄ /BiOI composites with oxygen vacancy for improving visible-light photocatalytic properties. <i>Journal of Cleaner Production</i> , 2021, 287, 125072.	9.4	93
58	TiO ₂ –ZnO Composite Sphere Decorated with ZnO Clusters for Effective Charge Isolation in Photocatalysis. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7226-7232.	3.7	91
59	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.	5.8	91
60	Engineering Facets and Oxygen Vacancies over Hematite Single Crystal for Intensified Electrolytic H ₂ O ₂ Production. <i>Advanced Functional Materials</i> , 2020, 30, 1910539.	16.5	90
61	Highly efficient Pt/TiO ₂ Pt/TiO ₂ photocatalyst for hydrogen generation prepared by a cold plasma method. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 1762-1770.	7.2	88
62	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.	10.5	88
63	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.	20.6	85
64	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.	20.6	84
65	Narrowing the Band Gap of BiOCl for the Hydroxyl Radical Generation of Photocatalysis under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16569-16576.	6.8	81
66	Hydrogenative Ring-Rearrangement of Biobased Furanic Aldehydes to Cyclopentanone Compounds over Pd/Pyrochlore by Introducing Oxygen Vacancies. <i>ACS Catalysis</i> , 2020, 10, 7355-7366.	11.6	81
67	Title is missing!. <i>Plasma Chemistry and Plasma Processing</i> , 2003, 23, 69-82.	2.4	80
68	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , 2016, 8, 18250-18269.	5.8	79
69	Quantum dot self-decorated TiO ₂ nanosheets. <i>Chemical Communications</i> , 2013, 49, 6593.	4.2	77
70	Low-Spin State Hematite with Superior Adsorption of Anionic Contaminations for Water Purification. <i>Advanced Materials</i> , 2020, 32, e1905988.	24.2	77
71	Isomerization of tetrahydrocyclopentadiene using ionic liquid: Green alternative for Jet Propellant-10 and adamantane. <i>Fuel</i> , 2012, 91, 164-169.	6.6	76
72	W ₁₈ O ₄₉ nanowire alignments with a BiOCl shell as an efficient photocatalyst. <i>Nanoscale</i> , 2014, 6, 8865.	5.8	74

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73	Mesoporous $W_{18}O_{49}$ hollow spheres as highly active photocatalysts. <i>Chemical Communications</i> , 2014, 50, 10959.	4.2	73
74	Engineering interfacial band bending over bismuth vanadate/carbon nitride by work function regulation for efficient solar-driven water splitting. <i>Science Bulletin</i> , 2022, 67, 389-397.	11.1	73
75	Synthesis of nano-fibrillated cellulose/magnetite/titanium dioxide (NFC@Fe ₃ O ₄ @TNP) nanocomposites and their application in the photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 53-64.	20.6	72
76	C-doped ZnO ball-in-ball hollow microspheres for efficient photocatalytic and photoelectrochemical applications. <i>Journal of Hazardous Materials</i> , 2017, 331, 235-245.	12.6	71
77	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 2089-2109.	9.0	71
78	HPW/MCM-41 catalyzed isomerization and dimerization of pure pinene and crude turpentine. <i>Catalysis Today</i> , 2014, 234, 271-277.	4.9	69
79	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.	12.3	69
80	Pd/Fe ₂ O ₃ with Electronic Coupling Single-Site Pd-Fe Pair Sites for Low-Temperature Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , 2022, 144, 573-581.	14.4	69
81	Al-Nanoparticle-Containing Nanofluid Fuel: Synthesis, Stability, Properties, and Propulsion Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2738-2745.	3.7	67
82	Role of Vacancies in Photocatalysis: A Review of Recent Progress. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3599-3619.	3.5	67
83	Highly controllable and selective hydroxyalkylation/alkylation of 2-methylfuran with cyclohexanone for synthesis of high-density biofuel. <i>Chemical Engineering Science</i> , 2015, 138, 239-243.	4.0	65
84	Manipulating electronic delocalization of Mn ₃ O ₄ by manganese defects for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119247.	20.6	65
85	Ti ³⁺ -defected and V-doped TiO ₂ quantum dots loaded on MCM-41. <i>Chemical Communications</i> , 2014, 50, 988-990.	4.2	63
86	Lignin-derived multi-cyclic high density biofuel by alkylation and hydrogenated intramolecular cyclization. <i>Chemical Engineering Science</i> , 2017, 158, 64-69.	4.0	63
87	Hydrogenation of Dicyclopentadiene over amorphous nickel alloy catalyst SRNA-4. <i>Fuel</i> , 2008, 87, 3655-3659.	6.6	62
88	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.	3.7	62
89	Fast preparation of oxygen vacancy-rich 2D/2D bismuth oxyhalides-reduced graphene oxide composite with improved visible-light photocatalytic properties by solvent-free grinding. <i>Journal of Cleaner Production</i> , 2021, 328, 129651.	9.4	61
90	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.	6.3	60

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91	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.	6.8	60
92	Oleylamine-Protected Metal (Pt, Pd) Nanoparticles for Pseudohomogeneous Catalytic Cracking of JP-10 Jet Fuel. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12312-12318.	3.7	59
93	Photocatalytic isomerization of norbornadiene to quadricyclane over metal (V, Fe and Ti) decorated TiO ₂ . <i>Journal of Catalysis</i> , 2016, 340, 107-115.	20.6	58
94	Jet fuel containing ligand-protecting energetic nanoparticles: A case study of boron in JP-10. <i>Chemical Engineering Science</i> , 2015, 129, 9-13.	4.0	58
95	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	58
96	Robinson Annulation-Directed Synthesis of Jet-Fuel-Ranged Alkylcyclohexanes from Biomass-Derived Chemicals. <i>ACS Catalysis</i> , 2018, 8, 3280-3285.	11.6	58
97	Isomerization and Dimerization of Pinene using Al-Incorporated MCM-41 Mesoporous Materials. <i>ChemCatChem</i> , 2012, 4, 1289-1297.	3.8	57
98	Review on the Relationship Between Liquid Aerospace Fuel Composition and Their Physicochemical Properties. <i>Transactions of Tianjin University</i> , 2021, 27, 87-109.	6.2	57
99	Pt nanoparticles on TiO ₂ with novel metal-semiconductor interface as highly efficient photocatalyst. <i>Materials Letters</i> , 2005, 59, 3437-3440.	2.7	55
100	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.	6.3	55
101	Phosphorus-Doped and Lattice-Defective Carbon as Metal-Like Catalyst for the Selective Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2017, 9, 4287-4294.	3.8	53
102	Zn- and La-modified TiO ₂ photocatalysts for the isomerization of norbornadiene to quadricyclane. <i>Journal of Molecular Catalysis A</i> , 2008, 286, 63-69.	4.8	52
103	Iron Oxide as a Catalyst for Nitroarene Hydrogenation: Important Role of Oxygen Vacancies. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8527-8533.	3.7	52
104	A Co-Mo 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.	10.5	52
105	Adsorption Configuration-Determined Selective Hydrogenative Ring Opening and Ring Rearrangement of Furfural over Metal Phosphate. <i>ACS Catalysis</i> , 2021, 11, 6406-6415.	11.6	52
106	Controllable fabrication of homogeneous ZnO p-n junction with enhanced charge separation for efficient photocatalysis. <i>Catalysis Today</i> , 2019, 335, 151-159.	4.9	51
107	Acid-Catalyzed Isomerization of Tetrahydrotricyclopentadiene: Synthesis of High-Energy-Density Liquid Fuel. <i>Energy & Fuels</i> , 2009, 23, 2383-2388.	5.2	50
108	Renewable high-density spiro-fuels from lignocellulose-derived cyclic ketones. <i>Chemical Communications</i> , 2017, 53, 10303-10305.	4.2	50

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109	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.	14.5	50
110	Highly efficient Pt/TiO ₂ photocatalyst prepared by plasma-enhanced impregnation method. <i>Chemical Physics Letters</i> , 2004, 400, 520-523.	2.6	49
111	Isomerization of endo-dicyclopentadiene using Al-grafted MCM-41. <i>Applied Catalysis A: General</i> , 2012, 421-422, 79-85.	4.4	49
112	Catalytic isomerization and oligomerization of endo-dicyclopentadiene using alkali-treated hierarchical porous HZSM-5. <i>Chemical Engineering Science</i> , 2015, 135, 540-546.	4.0	49
113	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.	6.2	49
114	Rearrangement of Tetrahydrotricyclopentadiene Using Acidic Ionic Liquid: Synthesis of Diamondoid Fuel. <i>Energy & Fuels</i> , 2011, 25, 1342-1347.	5.2	48
115	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.	20.6	48
116	Product distribution of tricyclopentadiene from cycloaddition of dicyclopentadiene and cyclopentadiene: A theoretical and experimental study. <i>Fuel</i> , 2010, 89, 2522-2527.	6.6	47
117	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.	4.0	47
118	Preparation of Pd-B/γ-Al ₂ O ₃ amorphous catalyst for the hydrogenation of tricyclopentadiene. <i>Journal of Molecular Catalysis A</i> , 2007, 271, 209-215.	4.8	46
119	Hydrogenated intramolecular cyclization of diphenylmethane derivatives for synthesizing high-density biofuel. <i>Chemical Engineering Science</i> , 2017, 173, 91-97.	4.0	46
120	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	45
121	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.	4.8	44
122	Highly Efficient Alkylation Using Hydrophobic Sulfonic Acid-Functionalized Biochar as a Catalyst for Synthesis of High-Density Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14973-14981.	6.8	43
123	Kinetics of Tricyclopentadiene Hydrogenation over Pd-B/γ-Al ₂ O ₃ Amorphous Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4415-4420.	3.7	42
124	A solar-energy-derived strained hydrocarbon as an energetic hypergolic fuel. <i>RSC Advances</i> , 2014, 4, 50998-51001.	3.7	42
125	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.	20.6	42
126	Ionic Liquid Catalytic Rearrangement of Polycyclic Hydrocarbons: A Versatile Route to Alkyl-Diamondoid Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2486-2492.	3.7	41

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127	Rational design and preparation of hierarchical monoliths through 3D printing for syngas methanation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5695-5702.	10.5	41
128	Novel Plasma Methanol Decomposition to Hydrogen Using Corona Discharges. <i>Chemistry Letters</i> , 2004, 33, 744-745.	1.4	39
129	Convenient synthesis of CeO ₂ nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 139, 197-200.	3.6	39
130	The Inherent Competition between Addition and Substitution Reactions of Br ₂ with Benzene and Arenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6809-6813.	14.8	39
131	Cobalt nanoparticles encapsulated in nitrogen-doped carbon for room-temperature selective hydrogenation of nitroarenes. <i>Chinese Journal of Catalysis</i> , 2018, 39, 664-672.	14.5	39
132	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.	5.3	39
133	Strain-Tailored Valley Polarization and Magnetic Anisotropy in Two-Dimensional 2H-VS ₂ /Cr ₂ C Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17440-17448.	3.2	38
134	Design and Construction of Cocatalysts for Photocatalytic Water Splitting. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020, 36, 1905007-0.	5.0	38
135	Amorphous Nickel Oxides Supported on Carbon Nanosheets as High-Performance Catalysts for Electrochemical Synthesis of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2022, 12, 5911-5920.	11.6	37
136	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.	6.3	36
137	A comprehensive review of the thermal oxidation stability of jet fuels. <i>Chemical Engineering Science</i> , 2021, 229, 116157.	4.0	36
138	Hydrogen production from partial oxidation of dimethyl ether using corona discharge plasma. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 958-964.	7.2	35
139	Producing methylcyclopentadiene dimer and trimer based high-performance jet fuels using 5-methyl furfural. <i>Green Chemistry</i> , 2020, 22, 7765-7768.	9.3	35
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