

Wei-Lin Dai

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#	Paper	IF	Citations
136	XPS studies on surface electronic characteristics of NiB and Ni ₃ B amorphous alloy and its correlation to their catalytic properties. <i>Applied Surface Science</i> , 1999 , 152, 25-34	6.7	265
135	The Nature of Active Copper Species in Cu-HMS Catalyst for Hydrogenation of Dimethyl Oxalate to Ethylene Glycol: New Insights on the Synergetic Effect between Cu ₀ and Cu ⁺ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11003-11013	3.8	210
134	Nitrogen vacancy engineered graphitic C ₃ N ₄ -based polymers for photocatalytic oxidation of aromatic alcohols to aldehydes. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 626-634	21.8	179
133	Photodegradation of rhodamine B and 4-chlorophenol using plasmonic photocatalyst of Ag@AgI/Fe ₃ O ₄ @SiO ₂ magnetic nanoparticle under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 580-586	21.8	161
132	Effect of preparation method on the hydrogen production from methanol steam reforming over binary Cu/ZrO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2006 , 297, 151-158	5.1	130
131	Influence of Ni species on the structural evolution of Cu/SiO ₂ catalyst for the chemoselective hydrogenation of dimethyl oxalate. <i>Journal of Catalysis</i> , 2011 , 280, 77-88	7.3	127
130	Dependence of Ag Deposition Methods on the Photocatalytic Activity and Surface State of TiO ₂ with Twistlike Helix Structure. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8343-8349	3.8	126
129	Simple fabrication of twist-like helix N,S-codoped titania photocatalyst with visible-light response. <i>Applied Catalysis B: Environmental</i> , 2008 , 79, 72-80	21.8	125
128	Highly active and selective copper-containing HMS catalyst in the hydrogenation of dimethyl oxalate to ethylene glycol. <i>Applied Catalysis A: General</i> , 2008 , 349, 91-99	5.1	121
127	Highly stable and efficient Ag/AgCl@TiO ₂ photocatalyst: preparation, characterization, and application in the treatment of aqueous hazardous pollutants. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 77-82	12.8	117
126	Recent advances in silver-based heterogeneous catalysts for green chemistry processes. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 730-741	21.8	108
125	XPS studies of Cu/ZnO/Al ₂ O ₃ ultra-fine catalysts derived by a novel gel oxalate co-precipitation for methanol synthesis by CO ₂ +H ₂ . <i>Applied Surface Science</i> , 2001 , 177, 172-179	6.7	97
124	Carbon nitride nanosheets decorated with WO ₃ nanorods: Ultrasonic-assisted facile synthesis and catalytic application in the green manufacture of dialdehydes. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 511-518	21.8	95
123	CeO ₂ nanorod/g-C ₃ N ₄ /N-rGO composite: enhanced visible-light-driven photocatalytic performance and the role of N-rGO as electronic transfer media. <i>Dalton Transactions</i> , 2015 , 44, 11223-34	4.3	86
122	The synthesis of propylene glycol and ethylene glycol from glycerol using Raney Ni as a versatile catalyst. <i>Green Chemistry</i> , 2009 , 11, 1514	10	86
121	Characterization and catalytic behavior of highly active tungsten-doped SBA-15 catalyst in the synthesis of glutaraldehyde using an anhydrous approach. <i>Journal of Catalysis</i> , 2007 , 249, 278-288	7.3	85
120	Ag-AgCl/WO ₃ hollow sphere with flower-like structure and superior visible photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 193-199	21.8	83

119	Synthesis of novel core-shell structured WO ₃ /TiO ₂ spheroids and its application in the catalytic oxidation of cyclopentene to glutaraldehyde by aqueous H ₂ O ₂ . <i>Journal of Catalysis</i> , 2005 , 234, 438-450	7.3	79
118	Reaction temperature controlled selective hydrogenation of dimethyl oxalate to methyl glycolate and ethylene glycol over copper-hydroxyapatite catalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 483-493	21.8	78
117	Simple fabrication of thermally stable apertured N-doped TiO ₂ microtubes as a highly efficient photocatalyst under visible light irradiation. <i>Catalysis Communications</i> , 2008 , 9, 146-152	3.2	76
116	Novel tungsten-containing mesoporous HMS material: its synthesis, characterization and catalytic application in the selective oxidation of cyclopentene to glutaraldehyde by aqueous H ₂ O ₂ . <i>Applied Catalysis A: General</i> , 2005 , 283, 1-8	5.1	75
115	Ag ₃ PO ₄ nanoparticles loaded on 3D flower-like spherical MoS ₂ : a highly efficient hierarchical heterojunction photocatalyst. <i>Dalton Transactions</i> , 2015 , 44, 14625-34	4.3	72
114	Enhanced catalytic performance for SiO ₂ /TiO ₂ binary oxide supported Cu-based catalyst in the hydrogenation of dimethyl oxalate. <i>Applied Catalysis A: General</i> , 2013 , 458, 82-89	5.1	72
113	Solvent feedstock effect: the insights into the deactivation mechanism of Cu/SiO ₂ catalysts for hydrogenation of dimethyl oxalate to ethylene glycol. <i>Chemical Communications</i> , 2013 , 49, 5195-7	5.8	68
112	Highly stable and efficient Ag/AgCl core-shell sphere: Controllable synthesis, characterization, and photocatalytic application. <i>Applied Catalysis B: Environmental</i> , 2013 , 130-131, 257-263	21.8	67
111	Ag/MCM-41 as a highly efficient mesostructured catalyst for the chemoselective synthesis of methyl glycolate and ethylene glycol. <i>Applied Catalysis B: Environmental</i> , 2011 , 108-109, 90-99	21.8	66
110	Enormous enhancement in photocatalytic performance of Ag ₃ PO ₄ /HAp composite: A Z-scheme mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 29-36	21.8	65
109	Influence of Tungsten Precursors on the Structure and Catalytic Properties of WO ₃ /SBA-15 in the Selective Oxidation of Cyclopentene to Glutaraldehyde. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3819-3826	3.8	65
108	One-pot synthesis of twist-like helix tungsten-nitrogen-codoped titania photocatalysts with highly improved visible light activity in the abatement of phenol. <i>Applied Catalysis B: Environmental</i> , 2008 , 82, 233-243	21.8	64
107	Synthesis, characterization and catalytic application of mesoporous W-MCM-48 for the selective oxidation of cyclopentene to glutaraldehyde. <i>Journal of Molecular Catalysis A</i> , 2005 , 241, 205-214		64
106	Highly Effective Oxidative Dehydrogenation of Propane Over Vanadia Supported on Mesoporous SBA-15 Silica. <i>Catalysis Letters</i> , 2003 , 88, 61-67	2.8	63
105	Zr-doped CeO ₂ nanorods as versatile catalyst in the epoxidation of styrene with tert-butyl hydroperoxide as the oxidant. <i>Applied Catalysis A: General</i> , 2015 , 503, 117-123	5.1	55
104	Remarkable support crystal phase effect in Au/FeO _x catalyzed oxidation of 1,4-butanediol to Ebutyrolactone. <i>Journal of Catalysis</i> , 2009 , 266, 228-235	7.3	55
103	Phosphotungstic acid encapsulated in metal-organic framework UiO-66: An effective catalyst for the selective oxidation of cyclopentene to glutaraldehyde. <i>Microporous and Mesoporous Materials</i> , 2015 , 211, 73-81	5.3	52
102	Synergistic effects of electronic structure of WO ₃ nanorods with the dominant {001} exposed facets combined with silver size-dependent on the visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 335-342	21.8	52

101	One Pot Synthesis of Ultra-High Copper Contented Cu/SBA-15 Material as Excellent Catalyst in the Hydrogenation of Dimethyl Oxalate to Ethylene Glycol. <i>Catalysis Letters</i> , 2009 , 132, 22-27	2.8	51
100	The influence of B-doping on the catalytic performance of Cu/HMS catalyst for the hydrogenation of dimethyloxalate. <i>Applied Catalysis A: General</i> , 2011 , 400, 39-47	5.1	51
99	Effect of initial precipitation temperature on the structural evolution and catalytic behavior of Cu/SiO ₂ catalyst in the hydrogenation of dimethyloxalate. <i>Catalysis Communications</i> , 2011 , 12, 412-416	3.2	50
98	Highly efficient Pt/NaNbO ₃ nanowire photocatalyst: Its morphology effect and application in water purification and H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 505-513	21.8	49
97	Catalytic oxidation of methane over novel CeNiO mixed oxide catalysts prepared by oxalate gel-coprecipitation. <i>Catalysis Letters</i> , 2005 , 99, 207-213	2.8	46
96	Selective Deposition of Silver Nanoparticles onto WO ₃ Nanorods with Different Facets: The Correlation of Facet-Induced Electron Transport Preference and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4345-4353	3.8	45
95	Novel Heterogeneous W-Doped MCM-41 Catalyst for Highly Selective Oxidation of Cyclopentene to Glutaraldehyde by Aqueous H ₂ O ₂ . <i>Catalysis Letters</i> , 2002 , 81, 131-136	2.8	45
94	A highly efficient Cu/ZnO/Al ₂ O ₃ catalyst via gel-coprecipitation of oxalate precursors for low-temperature steam reforming of methanol. <i>Catalysis Letters</i> , 2005 , 102, 183-190	2.8	45
93	Support morphology and crystal plane effect of Cu/CeO ₂ nanomaterial on the physicochemical and catalytic properties for carbonate hydrogenation. <i>Catalysis Science and Technology</i> , 2016 , 6, 7752-7762	5.5	44
92	Effect of Si/Al Ratio of Mesoporous Support on the Structure Evolution and Catalytic Performance of the Cu/Al-HMS Catalyst. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8523-8532	3.8	44
91	Influence of copper precursors on the structure evolution and catalytic performance of Cu/HMS catalysts in the hydrogenation of dimethyl oxalate to ethylene glycol. <i>Applied Catalysis A: General</i> , 2010 , 377, 128-133	5.1	42
90	Remarkable Improvement of Catalytic Performance for a New Cobalt-Decorated Cu/HMS Catalyst in the Hydrogenation of Dimethyloxalate. <i>ChemCatChem</i> , 2013 , 5, 138-141	5.2	41
89	Ion-Exchange Temperature Effect on Cu/HMS Catalysts for the Hydrogenation of Dimethyl Oxalate to Ethylene Glycol. <i>ChemCatChem</i> , 2010 , 2, 206-213	5.2	41
88	Novel efficient and green approach to the synthesis of glutaraldehyde over highly active W-doped SBA-15 catalyst. <i>Journal of Catalysis</i> , 2005 , 229, 259-263	7.3	41
87	Insights into the Relationship of the Heterojunction Structure and Excellent Activity: Photo-Oxidative Coupling of Benzylamine on CeO ₂ -rod/g-C ₃ N ₄ Hybrid under Mild Reaction Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10526-10535	8.3	38
86	Embedding Pt nanoparticles at the interface of CdS/NaNbO ₃ nanorods heterojunction with bridge design for superior Z-Scheme photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119290	21.8	36
85	Facile synthesis of highly efficient Pt/N-rGO/N-NaNbO ₃ nanorods toward photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117901	21.8	35
84	High-activity, single-site mesoporous WO ₃ -MCF materials for the catalytic epoxidation of cycloocta-1,5-diene with aqueous hydrogen peroxide. <i>Journal of Catalysis</i> , 2008 , 256, 259-267	7.3	35

83	Continuous synthesis of methanol: heterogeneous hydrogenation of ethylene carbonate over Cu/HMS catalysts in a fixed bed reactor system. <i>Chemical Communications</i> , 2015 , 51, 13776-8	5.8	34
82	Novel economic and green approach to the synthesis of highly active W-MCM41 catalyst in oxidative cleavage of cyclopentene. <i>Chemical Communications</i> , 2003 , 892-3	5.8	34
81	Nanocasting of CuAu alloy nanoparticles for methyl glycolate synthesis. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8997		32
80	Influence of support surface basicity and gold particle size on catalytic activity of Au/AlOOH and Au/Al ₂ O ₃ catalyst in aerobic oxidation of diols to lactones. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 343-350	21.8	32
79	Novel core-shell structured mesoporous titania microspheres: Preparation, characterization and excellent photocatalytic activity in phenol abatement. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 284-294	4.7	32
78	Formation of Ordered Mesoporous MgO with Tunable Pore Diameter and Its Application As Excellent Alkaline Catalyst in Baeyer-Villiger Oxidation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17657-17663 ³¹	3.8	31
77	Intercorrelated Ag ₃ PO ₄ nanoparticles decorated with graphitic carbon nitride: Enhanced stability and photocatalytic activities for water treatment. <i>Applied Surface Science</i> , 2017 , 403, 177-186	6.7	30
76	Chromium Supported on Mesocellular Silica Foam (MCF) for Oxidative Dehydrogenation of Propane. <i>Catalysis Letters</i> , 2006 , 106, 145-152	2.8	30
75	Graphite carbon nitride nanosheets decorated with ZIF-8 nanoparticles: Effects of the preparation method and their special hybrid structures on the photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 98-108	5.7	30
74	Surface modification of HMS material with silica sol leading to a remarkable enhanced catalytic performance of Cu/SiO ₂ . <i>Applied Surface Science</i> , 2011 , 257, 5844-5849	6.7	29
73	Oxidative dehydrogenation of methanol to formaldehyde on electrolytic silver catalyst modified with iodides. <i>Applied Catalysis A: General</i> , 1998 , 175, 83-88	5.1	28
72	Investigation of the structural evolution and catalytic performance of the CuZnAl catalysts in the hydrogenation of dimethyl oxalate to ethylene glycol. <i>Catalysis Today</i> , 2014 , 233, 117-126	5.3	27
71	Highly active and green aminopropyl-immobilized phosphotungstic acid on mesocellular silica foam for the O-heterocyclization of cycloocta-1,5-diene with aqueous H ₂ O ₂ . <i>Green Chemistry</i> , 2011 , 13, 702	10	27
70	One-pot solvent-free synthesis of sodium benzoate from the oxidation of benzyl alcohol over novel efficient AuAg/TiO ₂ catalysts. <i>Green Chemistry</i> , 2011 , 13, 1644	10	27
69	Tungsten-containing MCF silica as active and recyclable catalysts for liquid-phase oxidation of 1,3-butanediol to 4-hydroxy-2-butanone. <i>Applied Catalysis A: General</i> , 2006 , 315, 91-100	5.1	27
68	Manganese-doped CeO ₂ nanocubes as highly efficient catalysts for styrene epoxidation with TBHP. <i>Applied Surface Science</i> , 2019 , 471, 767-775	6.7	27
67	A novel visible light-driven Ag ₃ PO ₄ /SBA-15 nanocomposite: Preparation and application in the photo-degradation of pollutants. <i>Applied Surface Science</i> , 2015 , 324, 212-220	6.7	26
66	Investigation of Activated-Carbon-Supported Copper Catalysts with Unique Catalytic Performance in the Hydrogenation of Dimethyl Oxalate to Methyl Glycolate. <i>ChemCatChem</i> , 2016 , 8, 527-531	5.2	26

- 65 Support Effect of New Au/FeOx Catalysts in the Oxidative Dehydrogenation of β -Diols to Lactones. *Journal of Physical Chemistry C*, **2008**, 112, 16110-16117 3.8 25
- 64 Self-assembled $\text{Mg}_5(\text{CO}_3)_4(\text{OH})_2 \cdot 4\text{H}_2\text{O}$ nanosheet as an effective catalyst in the Baeyer-Villiger oxidation of cyclohexanone. *Catalysis Communications*, **2008**, 9, 1334-1341 3.2 25
- 63 Studies on the structural change of a reaction-controlled phase-transfer $[\text{EC}_5\text{H}_5\text{NC}_6\text{H}_3\text{O}_3]_3\{\text{PO}_4[\text{WO}_3]_4\}$ catalyst during the selective oxidation of cyclopentene to glutaric acid with aqueous H_2O_2 . *Applied Catalysis A: General*, **2006**, 309, 62-69 5.1 24
- 62 In Ni Sites Boosting Interfacial Charge Transfer in Carbon-Coated Hollow Tubular $\text{In}_2\text{O}_3/\text{ZnIn}_2\text{S}_4$ Heterostructure Derived from In-MOF for Enhanced Photocatalytic Hydrogen Evolution. *ACS Catalysis*, **2021**, 11, 6276-6289 13.1 24
- 61 In Situ Growth of g-C $_3\text{N}_4$ on Hexangular Flowerlike FeWO_4 Microcrystals: Highly Efficient Catalyst and the Crucial Roles of $\text{Fe}^{3+}/\text{Fe}^{2+}$ Couple in the Photoassisted Oxidation and Reduction Reactions. *Journal of Physical Chemistry C*, **2018**, 122, 12900-12912 3.8 23
- 60 Facile Fabrication and Mechanism of Single-Crystal Sodium Niobate Photocatalyst: Insight into the Structure Features Influence on Photocatalytic Performance for H_2 Evolution. *Journal of Physical Chemistry C*, **2017**, 121, 25898-25907 3.8 22
- 59 Novel highly active $\text{Ag}_2\text{BiO}_2/\text{Al}_2\text{O}_3/\text{ZnO}$ catalyst for the production of anhydrous HCHO from direct dehydrogenation of CH_3OH . *Applied Catalysis A: General*, **2004**, 273, 83-88 5.1 22
- 58 Facile construction of phosphate incorporated graphitic carbon nitride with mesoporous structure and superior performance for H_2 production. *International Journal of Hydrogen Energy*, **2018**, 43, 5591-5602 6.7 21
- 57 Excellent catalytic performance of graphite oxide in the selective oxidation of glutaraldehyde by aqueous hydrogen peroxide. *RSC Advances*, **2012**, 2, 7135 3.7 21
- 56 First observation of highly efficient dehydrogenation of methanol to anhydrous formaldehyde over novel $\text{Ag-SiO}_2\text{-MgO-Al}_2\text{O}_3$ catalyst. *Chemical Communications*, **2003**, 3030-1 5.8 20
- 55 Ultrafine NiCoWB amorphous alloys and their activities in benzene hydrogenation to cyclohexane. *Catalysis Letters*, **2001**, 71, 187-192 2.8 20
- 54 Thermal oxidative etching method derived graphitic C $_3\text{N}_4$: highly efficient metal-free catalyst in the selective epoxidation of styrene. *RSC Advances*, **2017**, 7, 5340-5348 3.7 19
- 53 Facile oxalic acid-assisted construction of laminated porous N-deficient graphitic carbon nitride: Highly efficient visible-light-driven hydrogen evolution photocatalyst. *Journal of Energy Chemistry*, **2019**, 33, 1-8 12 19
- 52 Morphology and crystal-plane effects of Zr-doped CeO_2 nanocrystals on the epoxidation of styrene with tert-butylhydroperoxide as the oxidant. *Journal of Energy Chemistry*, **2017**, 26, 681-687 12 18
- 51 Facile construction of flower-like black phosphorus nanosheet@ ZnIn_2S_4 composite with highly efficient catalytic performance in hydrogen production. *Applied Surface Science*, **2020**, 504, 144366 6.7 18
- 50 Imidazole modified g-C $_3\text{N}_4$ photocatalyst: Structural characterization and versatile energy applications. *Applied Surface Science*, **2018**, 430, 316-324 6.7 17
- 49 Effect of calcination temperature of the support and the catalyst of WO_3/SnO_2 on the catalytic oxidation of 1,2-benzenedimethanol by H_2O_2 . *Applied Catalysis A: General*, **2014**, 482, 171-178 5.1 17
- 48 Highly efficient and stable Au/ Mn_2O_3 catalyst for oxidative cyclization of 1,4-butanediol to ϵ -butyrolactone. *Applied Catalysis A: General*, **2013**, 458, 63-70 5.1 17

47	New green catalytic manufacture of glutaric acid from the oxidation of cyclopentane-1,2-diol with aqueous hydrogen peroxide. <i>Applied Catalysis A: General</i> , 2007 , 328, 226-236	5.1	17
46	A green process for the epoxidation of dicyclopentadiene with aqueous H ₂ O ₂ over highly efficient and stable HPW-NH ₂ -SBA-15. <i>RSC Advances</i> , 2012 , 2, 6087	3.7	16
45	Unprecedented enhancement in visible-light-driven photoactivity of modified graphitic C ₃ N ₄ by coupling with H ₂ WO ₄ . <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1072-1080	6.8	15
44	Insight into the Synergism between Copper Species and Surface Defects Influenced by Copper Content over Copper/Ceria Catalysts for the Hydrogenation of Carbonate. <i>ChemCatChem</i> , 2018 , 10, 619-624	5.3	15
43	A green process for the oxidative lactonization of 1,2-benzenedimethanol by tungstic acid with aqueous H ₂ O ₂ . <i>Green Chemistry</i> , 2010 , 12, 205-208	10	15
42	Facile construction of highly efficient MOF-based Pd@UiO-66-NH ₂ @ZnIn ₂ S ₄ flower-like nanocomposites for visible-light-driven photocatalytic hydrogen production. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 189-199	9.1	15
41	Hierarchical fabrication of hollow CoP nanocages coated with ZnInS thin layer: Highly efficient noble-metal-free photocatalyst for hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021 , 590, 632-640	9.3	14
40	Robust hollow tubular ZnIn ₂ S ₄ modified with embedded metal-organic-framework-layers: Extraordinarily high photocatalytic hydrogen evolution activity under simulated and real sunlight irradiation. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120632	21.8	14
39	Structure Engineered g-C ₃ N ₄ Nano-Sheets by Switching the Pyrolysis Gas Atmosphere for Enhanced Photo-Catalytic Degradation. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 173-182	4.9	13
38	Construction of Highly Efficient 3D/2D MnO ₂ /g-C ₃ N ₄ Nanocomposite in the Epoxidation of Styrene with TBHP. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17008-17019	8.3	13
37	Introduction of in-plane π-conjugated heterojunction via rGO modulation: A promising approach to enhance photoexcited charge separation and transfer of g-C ₃ N ₄ . <i>Applied Surface Science</i> , 2019 , 489, 658-667	6.7	13
36	Role of copper content and calcination temperature in the structural evolution and catalytic performance of Cu/P25 catalysts in the selective hydrogenation of dimethyl oxalate. <i>Applied Catalysis A: General</i> , 2016 , 509, 66-74	5.1	13
35	Interaction of oxygen with silver surface at high temperature. <i>Applied Surface Science</i> , 1998 , 126, 148-150.	5.7	13
34	Highly efficient tungsten trioxide containing mesocellular silica foam catalyst in the O-heterocyclization of cycloocta-1,5-diene with aqueous H ₂ O ₂ . <i>Applied Catalysis A: General</i> , 2007 , 332, 138-145	5.1	13
33	Facile synthesis of ultra-small Ag decorated g-C ₃ N ₄ photocatalyst via strong interaction between Ag ⁺ and cyano group in monocyanamide. <i>Applied Surface Science</i> , 2020 , 503, 143891	6.7	13
32	Black phosphorus quantum dots facilitate carrier separation for enhancing hydrogen production over hierarchical Cu ₇ S ₄ /ZnIn ₂ S ₄ composites. <i>Catalysis Science and Technology</i> , 2020 , 10, 1030-1039	5.5	13
31	Remarkable enhancement in visible-light absorption and electron transfer of carbon nitride nanosheets with 1% tungstate dopant. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 91-98	21.8	12
30	Electroless-hydrothermal construction of nickel bridged nickel sulfide@mesoporous carbon nitride hybrids for highly efficient noble metal-free photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020 , 45, 176-186	9.1	12

29	Highly active and selective Cs _{2.5} H _{0.5} PW ₁₂ O ₄₀ /SBA-15 composite material in the oxidation of cyclopentane-1,2-diol to glutaric acid by aqueous H ₂ O ₂ . <i>Applied Catalysis A: General</i> , 2009 , 352, 61-65	5.1	12
28	Remarkable crystal phase effect of Cu/TiO ₂ catalysts on the selective hydrogenation of dimethyl oxalate. <i>RSC Advances</i> , 2015 , 5, 29040-29047	3.7	11
27	Highly selective one-pot continuous synthesis of 2-methoxyethanol via hydrogenation of dimethyl oxalate on Cu/ZrO ₂ catalysts with balanced acid sites. <i>RSC Advances</i> , 2014 , 4, 31162-31165	3.7	11
26	Novel Highly Active Ag ₂ SiO ₂ /MgO Catalysts Used for Direct Dehydrogenation of Methanol to Anhydrous Formaldehyde. <i>Catalysis Letters</i> , 2003 , 85, 81-85	2.8	11
25	In situ Raman studies on the interaction of oxygen and methanol with an iodine-modified electrolytic silver catalyst. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 318-324	2.3	10
24	Direct dehydrogenation of methanol to formaldehyde over pre-treated polycrystalline silver catalyst. <i>Catalysis Letters</i> , 2005 , 99, 83-87	2.8	10
23	Continuous heterogeneous hydrogenation of CO ₂ -derived dimethyl carbonate to methanol over a Cu-based catalyst. <i>RSC Advances</i> , 2016 , 6, 69530-69539	3.7	9
22	Effect of the tungsten precursor on the high activity of the WO ₃ /ZrO ₂ catalyst in the oxidative lactonization of 1,2-benzenedimethanol. <i>Applied Catalysis A: General</i> , 2012 , 435-436, 141-147	5.1	9
21	Sodium Hydroxide/Sodium Oxalate-Assisted Co-Precipitation of Highly Active and Stable Cu/ZrO ₂ Catalyst in the Partial Oxidation of Methanol to Hydrogen. <i>Catalysis Letters</i> , 2009 , 131, 632-642	2.8	9
20	Synthesis and characterization of thermally stable mesostructured sulfated zirconia by a novel sulfate-assisted alcohol thermal route. <i>Catalysis Letters</i> , 2005 , 99, 73-78	2.8	9
19	Synergistic effect on Au-Pd bimetallic catalyst during oxidation of benzyl alcohol to sodium benzoate. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1846-1853	11.3	8
18	A novel green process for the synthesis of glutaraldehyde by WS ₂ @HMS material with aqueous H ₂ O ₂ . <i>RSC Advances</i> , 2013 , 3, 1744-1747	3.7	8
17	Highly efficient single-crystalline NaNb _{1-x} Ta _x O ₃ (X = 0.125) wires: The synergistic effect of tantalum-doping and morphology on photocatalytic hydrogen evolution. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 20-30	9.1	7
16	Highly efficient Ag-modified copper phyllosilicate nanotube: Preparation by co-ammonia evaporation hydrothermal method and application in the selective hydrogenation of carbonate. <i>Journal of Materials Science and Technology</i> , 2020 , 47, 29-37	9.1	6
15	Au Nanoparticles Embedded in Carbon Self-Doping g-C ₃ N ₄ : Facile Photodeposition Method for Superior Photocatalytic H ₂ Evolution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10964-10973	3.8	6
14	Novel magnetic-separable and efficient Au/Fe ₃ O ₄ composite for the lactonization of 1,4-butanediol to ϵ -butyrolactone. <i>RSC Advances</i> , 2012 , 2, 3801	3.7	5
13	Unexpected mononuclear W(VI) complexes containing phosphonate ligands anchored on mesoporous silica. Another strategy for immobilization. <i>Catalysis Communications</i> , 2008 , 9, 1838-1841	3.2	5
12	A green process for O-heterocyclization of cycloocta-1,5-diene by peroxotungstic species with aqueous H ₂ O ₂ . <i>Green Chemistry</i> , 2007 , 9, 878	10	5

11	Highly efficient noble-metal-free NiS/rGO/Cd _{0.3} Zn _{0.7} S nanorods in visible-light-driven H ₂ evolution with enhanced surface photoinduced charge transfer. <i>Applied Surface Science</i> , 2022 , 574, 151553	6.7	5
10	Superior sponge-like carbon self-doping graphitic carbon nitride nanosheets derived from supramolecular pre-assembly of a melamine-cyanuric acid complex for photocatalytic H evolution. <i>Nanotechnology</i> , 2021 , 32, 155604	3.4	5
9	Activation of Kagome lattice-structured CuVO(OH)·2H ₂ O volborthite via hydrothermal crystallization for boosting visible light-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24561-24569	3.6	4
8	Facile one-step hydrothermal synthesis of single-crystalline SnNbO nanosheets with greatly extended visible-light response for enhanced photocatalytic performance and mechanism insight. <i>Nanotechnology</i> , 2021 , 32, 065705	3.4	4
7	Surface structural evolution of AuAg/TiO ₂ catalyst in the transformation of benzyl alcohol to sodium benzoate. <i>Applied Surface Science</i> , 2013 , 279, 391-399	6.7	3
6	Direct production of hydrogen peroxide from CO, O ₂ , and H ₂ O over a novel alumina-supported Cu catalyst. <i>New Journal of Chemistry</i> , 2004 , 28, 1431	3.6	3
5	Facile and robust construction of a 3D-hierarchical NaNbO ₃ -nanorod/ZnIn ₂ S ₄ heterojunction towards ultra-high photocatalytic H ₂ production. <i>Catalysis Science and Technology</i> , 2022 , 12, 2346-2359	5.5	2
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3	TiN Bridged All-Solid Z-Scheme CNNS/TiN/TiO ₂ Heterojunction by a Facile In Situ Reduction Strategy for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100695	4.6	0
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1	The nonisothermal decomposition kinetics of copper(II) complexes with phthalanilic acids and amino acids. <i>International Journal of Chemical Kinetics</i> , 2003 , 35, 623-628	1.4	