

# Hiromi Yamashita

## List of Publications by Year in descending order

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370  
papers

19,956  
citations

8732

75  
h-index

17546

121  
g-index

384  
all docs

384  
docs citations

384  
times ranked

16541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Reduction of CO <sub>2</sub> with H <sub>2</sub> O on Titanium Oxides Anchored within Micropores of Zeolites: Effects of the Structure of the Active Sites and the Addition of Pt. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2632-2636.	1.2	395
2	Pd and Pd-Ag Nanoparticles within a Macroreticular Basic Resin: An Efficient Catalyst for Hydrogen Production from Formic Acid Decomposition. <i>ACS Catalysis</i> , 2013, 3, 1114-1119.	5.5	339
3	Surfactant-Free Nonaqueous Synthesis of Plasmonic Molybdenum Oxide Nanosheets with Enhanced Catalytic Activity for Hydrogen Generation from Ammonia Borane under Visible Light. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2910-2914.	7.2	334
4	Enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> using g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015, 86, 17-24.	5.3	323
5	Ru and Ru-Ni Nanoparticles on TiO <sub>2</sub> Support as Extremely Active Catalysts for Hydrogen Production from Ammonia-Borane. <i>ACS Catalysis</i> , 2016, 6, 3128-3135.	5.5	310
6	Superhydrophobic Surfaces with Photocatalytic Self-Cleaning Properties by Nanocomposite Coating of TiO <sub>2</sub> and Polytetrafluoroethylene. <i>Advanced Materials</i> , 2012, 24, 3697-3700.	11.1	298
7	Photocatalytic Reduction of CO <sub>2</sub> with H <sub>2</sub> O on Ti <sup>IV</sup> Zeolite Photocatalysts: Effect of the Hydrophobic and Hydrophilic Properties. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8350-8355.	1.2	287
8	Photocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O on various titanium oxide photocatalysts. <i>RSC Advances</i> , 2012, 2, 3165.	1.7	286
9	Charge Carrier Dynamics of Standard TiO <sub>2</sub> Catalysts Revealed by Femtosecond Diffuse Reflectance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3120-3127.	1.2	269
10	Selective formation of CH <sub>3</sub> OH in the photocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O on titanium oxides highly dispersed within zeolites and mesoporous molecular sieves. <i>Catalysis Today</i> , 1998, 45, 221-227.	2.2	251
11	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019, 6, 1006-1025.	2.2	245
12	In-Situ XAFS, Photoluminescence, and IR Investigations of Copper Ions Included within Various Kinds of Zeolites. Structure of Cu(I) Ions and Their Interaction with CO Molecules. <i>The Journal of Physical Chemistry</i> , 1996, 100, 397-402.	2.9	242
13	Photocatalytic Decomposition of NO at 275 K on Titanium Oxides Included within Y-Zeolite Cavities: The Structure and Role of the Active Sites. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16041-16044.	2.9	242
14	Preparation of Titanium Oxide Photocatalysts Anchored on Porous Silica Glass by a Metal Ion-Implantation Method and Their Photocatalytic Reactivities for the Degradation of 2-Propanol Diluted in Water. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10707-10711.	1.2	232
15	Design of unique titanium oxide photocatalysts by an advanced metal ion-implantation method and photocatalytic reactions under visible light irradiation. <i>Research on Chemical Intermediates</i> , 1998, 24, 143-149.	1.3	230
16	The Synthesis of Size- and Color-Controlled Silver Nanoparticles by Using Microwave Heating and their Enhanced Catalytic Activity by Localized Surface Plasmon Resonance. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7446-7450.	7.2	225
17	Isolated Single-Atomic Ru Catalyst Bound on a Layered Double Hydroxide for Hydrogenation of CO <sub>2</sub> to Formic Acid. <i>ACS Catalysis</i> , 2017, 7, 3147-3151.	5.5	225
18	Dramatic Enhancement of CO <sub>2</sub> Uptake by Poly(ethyleneimine) Using Zirconosilicate Supports. <i>Journal of the American Chemical Society</i> , 2012, 134, 10757-10760.	6.6	205

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19	Surface Engineering of a Supported PdAg Catalyst for Hydrogenation of CO <sub>2</sub> to Formic Acid: Elucidating the Active Pd Atoms in Alloy Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 8902-8909.	6.6	202
20	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , 2016, 138, 9316-9324.	6.6	201
21	Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. <i>Chemical Communications</i> , 2014, 50, 11645-11648.	2.2	199
22	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to $\gamma$ -Valerolactone over Sulfonic Acid-Functionalized UiO-66. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1141-1152.	3.2	198
23	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020, 12, 11333-11363.	2.8	193
24	Amine-Functionalized MIL-125 with Imbedded Palladium Nanoparticles as an Efficient Catalyst for Dehydrogenation of Formic Acid at Ambient Temperature. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22805-22810.	1.5	188
25	Characterization of Titanium-Silicon Binary Oxide Catalysts Prepared by the Sol-Gel Method and Their Photocatalytic Reactivity for the Liquid-Phase Oxidation of 1-Octanol. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5870-5875.	1.2	184
26	Title is missing!. <i>Catalysis Letters</i> , 2000, 67, 135-137.	1.4	180
27	Plasmonic Au@Pd Nanoparticles Supported on a Basic Metal-Organic Framework: Synergic Boosting of H <sub>2</sub> Production from Formic Acid. <i>ACS Energy Letters</i> , 2017, 2, 1-7.	8.8	180
28	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. <i>Chemical Society Reviews</i> , 2018, 47, 8072-8096.	18.7	176
29	A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. <i>Advanced Materials</i> , 2015, 27, 4616-4621.	11.1	174
30	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 555-569.	10.8	173
31	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5402-5406.	7.2	169
32	Influence of char surface chemistry on the reduction of nitric oxide with chars. <i>Energy &amp; Fuels</i> , 1993, 7, 85-89.	2.5	166
33	Photocatalytic Degradation of 1-Octanol on Anchored Titanium Oxide and on TiO <sub>2</sub> Powder Catalysts. <i>Journal of Catalysis</i> , 1996, 158, 97-101.	3.1	161
34	PdAg Nanoparticles Supported on Functionalized Mesoporous Carbon: Promotional Effect of Surface Amine Groups in Reversible Hydrogen Delivery/Storage Mediated by Formic Acid/CO <sub>2</sub> . <i>ACS Catalysis</i> , 2018, 8, 2277-2285.	5.5	157
35	Photocatalytic decomposition of NO at 275 K on titanium oxide catalysts anchored within zeolite cavities and framework. <i>Applied Surface Science</i> , 1997, 121-122, 305-309.	3.1	148
36	Graphene Coating of TiO <sub>2</sub> Nanoparticles Loaded on Mesoporous Silica for Enhancement of Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15049-15053.	1.5	147

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37	A Visible-Light Harvesting Assembly with a Sulfocalixarene Linker between Dyes and a Pt-TiO <sub>2</sub> Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 916-919.	7.2	139
38	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to $\gamma$ -valerolactone over ZrO <sub>2</sub> catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , 2017, 281, 418-428.	2.2	129
39	Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5244-5258.	5.2	127
40	Relationship between the Local Structures of Titanium Oxide Photocatalysts and Their Reactivities in the Decomposition of NO. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8395-8398.	1.2	126
41	Enhancement of the Photoinduced Oxidation Activity of a Ruthenium(II) Complex Anchored on Silica-Coated Silver Nanoparticles by Localized Surface Plasmon Resonance. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8598-8601.	7.2	126
42	Preparation of Hydroxynaphthalene-Modified TiO <sub>2</sub> via Formation of Surface Complexes and their Applications in the Photocatalytic Reduction of Nitrobenzene under Visible-Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6635-6639.	4.0	125
43	Photocatalytic reactions on chromium containing mesoporous silica molecular sieves (Cr-HMS) under visible light irradiation: decomposition of NO and partial oxidation of propane. <i>Chemical Communications</i> , 2001, , 435-436.	2.2	123
44	Applications of Single-site Photocatalysts Implanted within the Silica Matrixes of Zeolite and Mesoporous Silica. <i>Chemistry Letters</i> , 2007, 36, 348-353.	0.7	120
45	Reaction of nitric oxide with metal-loaded carbon in the presence of oxygen. <i>Applied Catalysis</i> , 1991, 78, L1-L6.	1.1	119
46	Efficient photocatalytic degradation of organics diluted in water and air using TiO <sub>2</sub> designed with zeolites and mesoporous silica materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 2407-2416.	6.7	119
47	A novel conversion process for waste slag: synthesis of a hydrotalcite-like compound and zeolite from blast furnace slag and evaluation of adsorption capacities. <i>Journal of Materials Chemistry</i> , 2010, 20, 5052.	6.7	118
48	Enhanced CO <sub>2</sub> Adsorption over Polymeric Amines Supported on Heteroatom-Incorporated SBA-15 Silica: Impact of Heteroatom Type and Loading on Sorbent Structure and Adsorption Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 16649-16664.	1.7	118
49	Local structures and photocatalytic reactivities of the titanium oxide and chromium oxide species incorporated within micro- and mesoporous zeolite materials: XAFS and photoluminescence studies. <i>Current Opinion in Solid State and Materials Science</i> , 2003, 7, 471-481.	5.6	116
50	Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. <i>ChemSusChem</i> , 2014, 7, 1528-1536.	3.6	109
51	Hydrogen spillover-driven synthesis of high-entropy alloy nanoparticles as a robust catalyst for CO <sub>2</sub> hydrogenation. <i>Nature Communications</i> , 2021, 12, 3884.	5.8	109
52	Phenylamine-functionalized mesoporous silica supported PdAg nanoparticles: a dual heterogeneous catalyst for formic acid/CO <sub>2</sub> -mediated chemical hydrogen delivery/storage. <i>Chemical Communications</i> , 2017, 53, 4677-4680.	2.2	107
53	Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. <i>NPG Asia Materials</i> , 2018, 10, 277-292.	3.8	104
54	Mechanism of Photooxidation of Alcohol over Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 18713-18718.	1.5	102

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55	Synergic Catalysis of PdCu Alloy Nanoparticles within a Macroreticular Basic Resin for Hydrogen Production from Formic Acid. <i>Chemistry - A European Journal</i> , 2015, 21, 12085-12092.	1.7	102
56	Synthesis of Ce ions doped metal-organic framework for promoting catalytic H <sub>2</sub> production from ammonia borane under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14134-14141.	5.2	102
57	Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity Enhancement under Visible Light. <i>Journal of the American Chemical Society</i> , 2018, 140, 9203-9210.	6.6	102
58	TiO <sub>2</sub> photocatalyst for degradation of organic compounds in water and air supported on highly hydrophobic FAU zeolite: Structural, sorptive, and photocatalytic studies. <i>Journal of Catalysis</i> , 2012, 285, 223-234.	3.1	101
59	Pd Nanoparticles and Aminopolymers Confined in Hollow Silica Spheres as Efficient and Reusable Heterogeneous Catalysts for Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , 2019, 9, 1993-2006.	5.5	101
60	Enhancement of plasmonic activity by Pt/Ag bimetallic nanocatalyst supported on mesoporous silica in the hydrogen production from hydrogen storage material. <i>Applied Catalysis B: Environmental</i> , 2018, 223, 10-15.	10.8	97
61	Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation Agent and Its Application as an Advantageous Host Material for the TiO <sub>2</sub> Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1552-1559.	1.5	96
62	Enhanced Catalytic Activity on Titanosilicate Molecular Sieves Controlled by Cation- $\pi$ Interactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 12462-12465.	6.6	96
63	Pd/Ag and Pd/Au bimetallic nanocatalysts on mesoporous silica for plasmon-mediated enhanced catalytic activity under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10142-10150.	5.2	95
64	Title is missing!. <i>Topics in Catalysis</i> , 2002, 18, 95-100.	1.3	94
65	High-surface-area plasmonic MoO <sub>3</sub> : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8946-8953.	5.2	94
66	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	93
67	Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt-Pd Alloy Cocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20667-20674.	4.0	91
68	A hydrophobic titanium doped zirconium-based metal organic framework for photocatalytic hydrogen peroxide production in a two-phase system. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1904-1910.	5.2	89
69	Synthesis and characterization of FePd magnetic nanoparticles modified with chiral BINAP ligand as a recoverable catalyst vehicle for the asymmetric coupling reaction. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8949.	1.3	88
70	Non-Noble-Metal Nanoparticle Supported on Metal-Organic Framework as an Efficient and Durable Catalyst for Promoting H <sub>2</sub> Production from Ammonia Borane under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21278-21284.	4.0	88
71	Synthesis and characterization of a Pd/Ag bimetallic nanocatalyst on SBA-15 mesoporous silica as a plasmonic catalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18889-18897.	5.2	87
72	Catalytically active, magnetically separable, and water-soluble FePt nanoparticles modified with cyclodextrin for aqueous hydrogenation reactions. <i>Green Chemistry</i> , 2009, 11, 1337.	4.6	83

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73	Synthesis of Tris(2,2'-bipyridine)iron(II) Complexes in Zeolite Y Cages: Influence of Exchanged Alkali Metal Cations on Physicochemical Properties and Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2593-2600.	1.5	81
74	Photocatalytic production of hydrogen peroxide through selective two-electron reduction of dioxygen utilizing amine-functionalized MIL-125 deposited with nickel oxide nanoparticles. <i>Chemical Communications</i> , 2018, 54, 9270-9273.	2.2	81
75	Controlled Pyrolysis of Ni-MOF-74 as a Promising Precursor for the Creation of Highly Active Ni Nanocatalysts in Size-Selective Hydrogenation. <i>Chemistry - A European Journal</i> , 2018, 24, 898-905.	1.7	78
76	A pH-Induced Size Controlled Deposition of Colloidal Ag Nanoparticles on Alumina Support for Catalytic Application. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16850-16854.	1.5	77
77	Esterification of levulinic acid with ethanol over sulfated mesoporous zirconosilicates: Influences of the preparation conditions on the structural properties and catalytic performances. <i>Catalysis Today</i> , 2014, 237, 18-28.	2.2	75
78	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2017, 5, 21883-21892.	5.2	75
79	A novel conversion process for waste slag: synthesis of calcium silicate hydrate from blast furnace slag and its application as a versatile adsorbent for water purification. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7199.	5.2	72
80	Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for Visible-Light-Enhanced Catalytic Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23531-23540.	1.5	72
81	The Local Structures of Silver(I) Ion Catalysts Anchored within Zeolite Cavities and Their Photocatalytic Reactivities for the Elimination of N <sub>2</sub> O into N <sub>2</sub> and O <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2004, 108, 2128-2133.	1.2	71
82	Enhanced photocatalytic properties of TiO <sub>2</sub> -loaded porous silica with hierarchical macroporous and mesoporous architectures in water purification. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2323-2330.	5.2	70
83	Color-Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwave-Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visible-Light Irradiation. <i>Chemistry - A European Journal</i> , 2015, 21, 11885-11893.	1.7	69
84	Characterization of Vanadium Oxide/ZSM-5 Zeolite Catalysts Prepared by the Solid-State Reaction and Their Photocatalytic Reactivity: In Situ Photoluminescence, XAFS, ESR, FT-IR, and UV-vis Investigations. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5590-5594.	1.2	68
85	A new catalytic opportunity for waste materials: Application of waste slag based catalyst in CO <sub>2</sub> fixation reaction. <i>Journal of CO<sub>2</sub> Utilization</i> , 2013, 1, 50-59.	3.3	68
86	Design of TiO <sub>2</sub> -zeolite composites with enhanced photocatalytic performances under irradiation of UV and visible light. <i>Microporous and Mesoporous Materials</i> , 2013, 165, 142-147.	2.2	67
87	Design of macroporous TiO <sub>2</sub> thin film photocatalysts with enhanced photofunctional properties. <i>Energy and Environmental Science</i> , 2011, 4, 1411.	15.6	66
88	Surface plasmon resonance enhancement of production of H <sub>2</sub> from ammonia borane solution with tunable Cu <sub>2</sub> -xS nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017, 31, 57-63.	8.2	65
89	Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO <sub>2</sub> photocatalysts. <i>Chemical Communications</i> , 2008, , 4783.	2.2	63
90	New Route for the Preparation of Pd and PdAu Nanoparticles Using Photoexcited Ti-Containing Zeolite as an Efficient Support Material and Investigation of Their Catalytic Properties. <i>Langmuir</i> , 2009, 25, 11180-11187.	1.6	63

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91	Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. <i>Catalysis Science and Technology</i> , 2012, 2, 1842.	2.1	63
92	Hybrid phase 1T/2H-MoS <sub>2</sub> with controllable 1T concentration and its promoted hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 11908-11915.	2.8	62
93	Progress in design and architecture of metal nanoparticles for catalytic applications. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14420.	1.3	61
94	Highly efficient Ru/carbon catalysts prepared by pyrolysis of supported Ru complex towards the hydrogen production from ammonia borane. <i>Applied Catalysis A: General</i> , 2016, 527, 45-52.	2.2	61
95	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , 2016, 32, 12110-12118.	1.6	61
96	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. <i>Applied Catalysis A: General</i> , 2019, 571, 25-41.	2.2	61
97	Application of an Ion Beam Technique for the Design of Visible Light-Sensitive, Highly Efficient and Highly Selective Photocatalysts: Ion-Implantation and Ionized Cluster Beam Methods. <i>Catalysis Surveys From Asia</i> , 2004, 8, 35-45.	1.0	59
98	Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into $\beta$ -valerolactone at ambient conditions. <i>Catalysis Today</i> , 2015, 258, 262-269.	2.2	59
99	Synthesis and Multifunctional Properties of Superparamagnetic Iron Oxide Nanoparticles Coated with Mesoporous Silica Involving Single-Site Ti <sup>IV</sup> Oxide Moiety. <i>Journal of Physical Chemistry C</i> , 2008, 112, 397-404.	1.5	57
100	Palladium Nanoparticles Supported on Titanium-Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. <i>Chemistry - an Asian Journal</i> , 2017, 12, 860-867.	1.7	57
101	Controlled release of hydrogen isotope compounds and tunneling effect in the heterogeneously-catalyzed formic acid dehydrogenation. <i>Nature Communications</i> , 2019, 10, 4094.	5.8	56
102	Characterization of the Local Structure of the Vanadium Silicalite (VS-2) Catalyst and Its Photocatalytic Reactivity for the Decomposition of NO into N <sub>2</sub> and O <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 1999, 103, 9295-9301.	1.2	55
103	A novel synthetic route to hydroxyapatite-zeolite composite material from steel slag: investigation of synthesis mechanism and evaluation of physicochemical properties. <i>Journal of Materials Chemistry</i> , 2009, 19, 7263.	6.7	55
104	Synthesis and Unique Catalytic Performance of Single-Site Ti-Containing Hierarchical Macroporous Silica with Mesoporous Frameworks. <i>Langmuir</i> , 2011, 27, 2873-2879.	1.6	55
105	Direct observation of interfacial hole transfer from a photoexcited TiO <sub>2</sub> particle to an adsorbed molecule SCN <sup>-</sup> by femtosecond diffuse reflectance spectroscopy. <i>Research on Chemical Intermediates</i> , 2001, 27, 177-187.	1.3	54
106	Photoinduced Aerobic Oxidation Driven by Phosphorescence Ir(III) Complex Anchored to Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21358-21362.	1.5	54
107	Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. <i>Chemical Communications</i> , 2019, 55, 6743-6746.	2.2	54
108	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO <sub>2</sub> to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119628.	10.8	54

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109	Overcoming Acidic H <sub>2</sub> O <sub>2</sub> /Fe(II/III) Redox-Induced Low H <sub>2</sub> O <sub>2</sub> Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2617-2625.	4.6	54
110	Enhancement of Pd-catalyzed Suzuki–Miyaura coupling reaction assisted by localized surface plasmon resonance of Au nanorods. <i>Catalysis Today</i> , 2015, 242, 381-385.	2.2	53
111	Palladium Copper Chromium Ternary Nanoparticles Constructed In-situ within a Basic Resin: Enhanced Activity in the Dehydrogenation of Formic Acid. <i>ChemCatChem</i> , 2017, 9, 3456-3462.	1.8	53
112	Applications of Single-site Photocatalysts to the Design of Unique Surface Functional Materials. <i>Catalysis Surveys From Asia</i> , 2008, 12, 88-100.	1.0	52
113	Silver Nanoparticles Supported on CeO <sub>2</sub> –SiO <sub>2</sub> by Microwave Irradiation Possess Metal–Support Interactions and Enhanced Catalytic Activity. <i>Chemistry - A European Journal</i> , 2014, 20, 15746-15752.	1.7	52
114	Enhancement of Ag-Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Single-Site TiO <sub>2</sub> Moieties within a Silica Framework. <i>Chemistry - A European Journal</i> , 2017, 23, 3616-3622.	1.7	51
115	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO <sub>2</sub> Hydrogenation to Formate. <i>ACS Catalysis</i> , 2020, 10, 6356-6366.	5.5	51
116	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. <i>Small Methods</i> , 2018, 2, 1800212.	4.6	50
117	Synthesis, characterization and photocatalytic reactivities of Mo-MCM-41 mesoporous molecular sieves: Effect of the Mo content on the local structures of Mo-oxides. <i>Journal of Catalysis</i> , 2005, 235, 272-278.	3.1	49
118	Synthesis of highly visible light active TiO <sub>2</sub> -2-naphthol surface complex and its application in photocatalytic chromium(VI) reduction. <i>RSC Advances</i> , 2015, 5, 39752-39759.	1.7	49
119	Design of Single-Site Photocatalysts by Using Metal–Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1767-1779.	1.7	49
120	TiO <sub>2</sub> photocatalyst loaded on hydrophobic Si <sub>3</sub> N <sub>4</sub> support for efficient degradation of organics diluted in water. <i>Applied Catalysis A: General</i> , 2008, 350, 164-168.	2.2	48
121	One-pot synthesis of molybdenum oxide nanoparticles encapsulated in hollow silica spheres: an efficient and reusable catalyst for epoxidation of olefins. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18518-18526.	5.2	48
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