Hiromi Yamashita

List of Publications by Year
in descending order

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370	19,956	8749	17580
papers	citations	75 h-index	121 g-index

384	384	384	16541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ru complex and N, P-containing polymers confined within mesoporous hollow carbon spheres for hydrogenation of CO2 to formate. Nano Research, 2023, 16, 4515-4523.	5.8	8
2	Synthesis of a CaO-Fe2O3-SiO2 composite from a dephosphorization slag for adsorption of CO2. Catalysis Today, 2023, 410, 264-272.	2.2	9
3	Overcoming Acidic H₂O₂/Fe(II/III) Redox-Induced Low H₂O₂ Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis. Environmental Science & Technology, 2022, 56, 2617-2625.	4.6	54
4	New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. EnergyChem, 2022, 4, 100070.	10.1	13
5	New insight on electroreduction of nitrate to ammonia driven by oxygen vacancies-induced strong interface interactions. Journal of Catalysis, 2022, 406, 39-47.	3.1	29
6	Improvement of acid resistance of Zn-doped dentin by newly generated chemical bonds. Materials and Design, 2022, 215, 110412.	3.3	4
7	Hydrodeoxygenation of Aromatic Ketones under Mild Conditions over Pd-loaded Hydrogen Molybdenum Bronze with Plasmonic Features. Chemistry Letters, 2022, 51, 166-169.	0.7	3
8	Dual Active Centers Bridged by Oxygen Vacancies of Ruthenium Singleâ€Atom Hybrids Supported on Molybdenum Oxide for Photocatalytic Ammonia Synthesis. Angewandte Chemie, 2022, 134, .	1.6	8
9	Dual Active Centers Bridged by Oxygen Vacancies of Ruthenium Singleâ€Atom Hybrids Supported on Molybdenum Oxide for Photocatalytic Ammonia Synthesis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	45
10	Crystal Facet Engineering and Hydrogen Spillover-Assisted Synthesis of Defective Pt/TiO_{2â€“x} Nanorods with Enhanced Visible Light-Driven Photocatalytic Activity. ACS Applied Materials & Interfaces, 2022, 14, 2291-2300.	4.0	16
11	Direct Synthesis of a Regenerative CaOâ€“Fe₃O₄â€“SiO₂ Composite Adsorbent from Converter Slag for CO₂ Capture Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 372-381.	3.2	14
12	Enhanced visible-NIR absorption and oxygen vacancy generation of Pt/H_xMoWO_y by H-spillover to facilitate photothermal catalytic CO₂ hydrogenation. Journal of Materials Chemistry A, 2022, 10, 10854-10864.	5.2	16
13	Size effects in plasmonic gold nanorod based Pd-rGO hybrid catalyst for promoting visible-light-driven Suzuki-Miyaura coupling reaction. Catalysis Today, 2022, , .	2.2	2
14	Revealing hydrogen spillover pathways in reducible metal oxides. Chemical Science, 2022, 13, 8137-8147.	3.7	39
15	Electrochemical Reactors for Continuous Decentralized H₂O₂ Production. Angewandte Chemie - International Edition, 2022, 61, .	7.2	31
16	Electrochemical Reactors for Continuous Decentralized H₂O₂ Production. Angewandte Chemie, 2022, 134, .	1.6	12
17	Development of Multi-functional Catalysts for Capture and Catalytic Transformation of Carbon Dioxide Using Nanoporous Materials. Journal of the Japan Petroleum Institute, 2022, 65, 125-133.	0.4	2
18	Ru/H MoO3- with plasmonic effect for boosting photothermal catalytic CO2 methanation. Applied Catalysis B: Environmental, 2022, 317, 121734.	10.8	27

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19	Promotional effect of surface plasmon resonance on direct formation of hydrogen peroxide from H2 and O2 over Pd/Graphene-Au nanorod catalytic system. Journal of Catalysis, 2021, 394, 259-265.	3.1	11
20	Catalytic and photocatalytic epoxidation over microporous titanosilicates with nanosheet or layered structure. Catalysis Today, 2021, 376, 28-35.	2.2	7
21	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO2 to formate. Applied Catalysis B: Environmental, 2021, 283, 119628.	10.8	54
22	Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. Materials Advances, 2021, 2, 880-906.	2.6	22
23	Synthesis of Plasmonic Catalyst with Core-Shell Structure for Visible Light Enhanced Catalytic Performance. Nanostructure Science and Technology, 2021, , 233-243.	0.1	0
24	PdAu Coreâ€“Shell Nanostructures as Visible-Light Responsive Plasmonic Photocatalysts. Nanostructure Science and Technology, 2021, , 261-274.	0.1	1
25	Design and Synthesis of Yolkâ€“Shell Nanostructured Silica Encapsulating Metal Nanoparticles and Aminopolymers for Selective Hydrogenation Reactions. Nanostructure Science and Technology, 2021, , 395-411.	0.1	0
26	A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO₂ hydrogenation to methanol. Chemical Science, 2021, 12, 9902-9915.	3.7	35
27	Plasmon-induced catalytic CO₂ hydrogenation by a nano-sheet Pt/H_xMoO_{3â^'y} hybrid with abundant surface oxygen vacancies. Journal of Materials Chemistry A, 2021, 9, 13898-13907.	5.2	31
28	Synthesis of small Ni-coreâ€“Au-shell catalytic nanoparticles on TiO₂ by galvanic replacement reaction. Nanoscale Advances, 2021, 3, 823-835.	2.2	8
29	Pdâ€“Cu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the Hydrogenation of CO₂ to Formate. Journal of Physical Chemistry C, 2021, 125, 3961-3971.	1.5	25
30	Photocatalytically-driven H2 production over Cu/TiO2 catalysts decorated with multi-walled carbon nanotubes. Catalysis Today, 2021, 364, 182-189.	2.2	19
31	Enhanced Catalysis of Plasmonic Silver Nanoparticles by a Combination of Macro-/Mesoporous Nanostructured Silica Support. Journal of Physical Chemistry C, 2021, 125, 9150-9157.	1.5	10
32	How the Morphology of NiO_x-Decorated CeO₂ Nanostructures Affects Catalytic Properties in CO₂ Methanation. Langmuir, 2021, 37, 5376-5384.	1.6	28
33	Modification of Tiâ€doped Hematite Photoanode with Quasiâ€molecular Cocatalyst: A Comparison of Improvement Mechanism Between Nonâ€noble and Noble Metals. ChemSusChem, 2021, 14, 2180-2187.	3.6	9
34	PdAg Nanoparticles Supported on an Amine-functionalized MOF as a Photo-switchable Catalyst for Hydrogen Storage/Delivery Mediated by CO2/Formic Acid. Chemistry Letters, 2021, 50, 607-610.	0.7	3
35	Heterometallic and Hydrophobic Metalâ€“Organic Frameworks as Durable Photocatalysts for Boosting Hydrogen Peroxide Production in a Two-Phase System. ACS Applied Energy Materials, 2021, 4, 4823-4830.	2.5	24
36	Design and application of photocatalysts using porous materials. Catalysis Reviews - Science and Engineering, 2021, 63, 165-233.	5.7	21

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37	Hydrogen spillover-driven synthesis of high-entropy alloy nanoparticles as a robust catalyst for CO2 hydrogenation. Nature Communications, 2021, 12, 3884.	5.8	109
38	Design of Plasmonic Catalysts Utilizing Nanostructures. Journal of the Japan Petroleum Institute, 2021, 64, 155-165.	0.4	0
39	Photoreduction of Carbon Dioxide to Formic Acid with Fe-Based MOFs: The Promotional Effects of Heteroatom Doping and Alloy Nanoparticle Confinement. ACS Applied Energy Materials, 2021, 4, 11634-11642.	2.5	13
40	Hybrid Phase MoS₂ as a Noble Metal-Free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics. Journal of Physical Chemistry C, 2021, 125, 20887-20895.	1.5	7
41	Semiconductorâ€based Photoanodes Modified with Metalâ€Organic Frameworks and Molecular Catalysts as Cocatalysts for Enhanced Photoelectrochemical Water Oxidation Reaction. ChemCatChem, 2021, 13, 5058-5072.	1.8	2
42	Self-assembled coreâ€“shell nanocomposite catalysts consisting of single-site Co-coordinated g-C3N4 and Au nanorods for plasmon-enhanced CO2 reduction. Journal of CO2 Utilization, 2021, 52, 101691.	3.3	12
43	Supported Coreâ€“Shell Alloy Nanoparticle Catalysts for the Carbon Dioxide Hydrogenation to Formic Acid. Nanostructure Science and Technology, 2021, , 151-163.	0.1	0
44	Experimental and computational study on roles of WOx promoting strong metal support promoter interaction in Pt catalysts during glycerol hydrogenolysis. Scientific Reports, 2021, 11, 530.	1.6	8
45	Hollow Carbon Spheres Encapsulating Metal Nanoparticles for CO2 Hydrogenation Reactions. Nanostructure Science and Technology, 2021, , 425-440.	0.1	0
46	Introduction of a secondary ligand into titanium-based metalâ€“organic frameworks for visible-light-driven photocatalytic hydrogen peroxide production from dioxygen reduction. Journal of Materials Chemistry A, 2021, 9, 2815-2821.	5.2	39
47	Defect Engineering of Pt/TiO_{2â€“x} Photocatalysts via Reduction Treatment Assisted by Hydrogen Spillover. ACS Applied Materials & Interfaces, 2021, 13, 48669-48678.	4.0	21
48	Recent strategies for enhancing the catalytic activity of CO2 hydrogenation to formate/formic acid over Pd-based catalyst. Journal of CO2 Utilization, 2021, 54, 101765.	3.3	27
49	Visible-light-driven hydrogen peroxide production from water and dioxygen by perylenetetracarboxylic diimide modified titanium-based metalâ€“organic frameworks. Journal of Materials Chemistry A, 2021, 9, 26371-26380.	5.2	38
50	Dual Role of Missing-Linker Defects Terminated by Acetate Ligands in a Zirconium-Based MOF in Promoting Photocatalytic Hydrogen Peroxide Production. Journal of Physical Chemistry C, 2021, 125, 27909-27918.	1.5	27
51	Non-noble metal doped perovskite as a promising catalyst for ammonia borane dehydrogenation. Catalysis Today, 2020, 351, 6-11.	2.2	8
52	Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. Catalysis Today, 2020, 355, 620-626.	2.2	14
53	Some novel porous materials for selective catalytic oxidations. Materials Today, 2020, 32, 244-259.	8.3	44
54	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO2 for aerobic alcohol oxidation. Catalysis Today, 2020, 352, 255-261.	2.2	32

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55	A hydrophobic titanium doped zirconium-based metal organic framework for photocatalytic hydrogen peroxide production in a two-phase system. Journal of Materials Chemistry A, 2020, 8, 1904-1910.	5.2	89
56	CoO_x-decorated CeO₂ heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. Nanoscale, 2020, 12, 1779-1789.	2.8	37
57	Design of Advanced Functional Materials Using Nanoporous Singleâ€Site Photocatalysts. Chemical Record, 2020, 20, 660-671.	2.9	7
58	Luminescent Single-Atom Eu-Coordinated Graphitic Carbon Nitride Nanosheets for Selective Sensing of Acetone and Cyclohexane. ACS Applied Nano Materials, 2020, 3, 10209-10217.	2.4	19
59	Single-Site Heterogeneous Catalysts and Photocatalysts for Emerging Applications. ACS Symposium Series, 2020, , 151-188.	0.5	3
60	Pyreneâ€Thiolâ€modified Pd Nanoparticles on Carbon Support: Kinetic Control by Steric Hinderance and Improved Stability by the Catalystâ€Support Interaction. ChemCatChem, 2020, 12, 5880-5887.	1.8	11
61	Improvement of the water oxidation performance of Ti, F co-modified hematite by surface modification with a Co(salen) molecular cocatalyst. Journal of Materials Chemistry A, 2020, 8, 21613-21622.	5.2	13
62	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO₂ Hydrogenation to Formate. ACS Catalysis, 2020, 10, 6356-6366.	5.5	51
63	Interfacial Engineering of PdAg/TiO₂ with a Metalâ€“Organic Framework to Promote the Hydrogenation of CO₂ to Formic Acid. Journal of Physical Chemistry C, 2020, 124, 11499-11505.	1.5	22
64	Metalâ€“organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. Physical Chemistry Chemical Physics, 2020, 22, 14404-14414.	1.3	43
65	Diesel Soot Combustion over Mn 2 O 3 Catalysts with Different Morphologies: Elucidating the Role of Active Oxygen Species in Soot Combustion. Chemistry - an Asian Journal, 2020, 15, 2005-2014.	1.7	10
66	Hybrid phase 1T/2H-MoS₂with controllable 1T concentration and its promoted hydrogen evolution reaction. Nanoscale, 2020, 12, 11908-11915.	2.8	62
67	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a Ag@Pd/TiO₂ Catalyst with a TiO_x Shell. ACS Applied Energy Materials, 2020, 3, 5819-5829.	2.5	27
68	Additive-Free Aqueous Phase Synthesis of Formic Acid by Direct CO2 Hydrogenation over a PdAg Catalyst on a Hydrophilic N-Doped Polymerâ€“Silica Composite Support with High CO2 Affinity. ACS Applied Energy Materials, 2020, 3, 5847-5855.	2.5	22
69	Mesoporous silicaâ€“supported Ag-based plasmonic photocatalysts. , 2020, , 353-368.		3
70	Tunable surface modification of a hematite photoanode by a Co(salen)-based cocatalyst for boosting photoelectrochemical performance. Catalysis Science and Technology, 2020, 10, 1714-1723.	2.1	8
71	Construction of Hybrid MoS₂ Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. Langmuir, 2020, 36, 1174-1182.	1.6	41
72	A direct conversion of blast furnace slag to a mesoporous silicaâ€“calcium oxide composite and its application in CO₂ captures. Green Chemistry, 2020, 22, 3759-3768.	4.6	18

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73	Properties, fabrication and applications of plasmonic semiconductor nanocrystals. Catalysis Science and Technology, 2020, 10, 4141-4163.	2.1	15
74	Synthesis of a binary alloy nanoparticle catalyst with an immiscible combination of Rh and Cu assisted by hydrogen spillover on a TiO₂ support. Chemical Science, 2020, 11, 4194-4203.	3.7	32
75	Recent Applications of Amorphous Alloys to Design Skeletal Catalysts. Bulletin of the Chemical Society of Japan, 2020, 93, 438-454.	2.0	15
76	PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO₂ to formate. Journal of Materials Chemistry A, 2020, 8, 4437-4446.	5.2	31
77	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. Nanoscale, 2020, 12, 11333-11363.	2.8	193
78	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. Topics in Current Chemistry Collections, 2020, , 193-223.	0.2	4
79	Chemical Hydrogen Storage and Release Driven by PdAg Alloy Nanoparticle Catalysts. Materia Japan, 2020, 59, 361-365.	0.1	0
80	Defect Engineering of MoS₂ and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. Chemistry - an Asian Journal, 2019, 14, 278-285.	1.7	39
81	Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. Catalysis Today, 2019, 324, 90-96.	2.2	40
82	Plasmonic catalysis of Ag nanoparticles deposited on CeO2 modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. Catalysis Today, 2019, 324, 83-89.	2.2	35
83	Photocatalytic properties of TiO2-loaded porous silica with hierarchical macroporous and mesoporous architectures in the degradation of gaseous organic molecules. Catalysis Today, 2019, 332, 222-226.	2.2	17
84	RuPd Alloy Nanoparticles Supported on Plasmonic H x MoO3-y for Efficient Photocatalytic Reduction of p -Nitrophenol. European Journal of Inorganic Chemistry, 2019, 2019, 3745-3752.	1.0	10
85	Design of Pdâ€“Grapheneâ€“Au Nanorod Nanocomposite Catalyst for Boosting Suzukiâ€“Miyaura Coupling Reaction by Assistance of Surface Plasmon Resonance. Journal of Physical Chemistry C, 2019, 123, 24575-24583.	1.5	31
86	PdAg Nanoparticles within Core-Shell Structured Zeolitic Imidazolate Framework as a Dual Catalyst for Formic Acid-based Hydrogen Storage/Production. Scientific Reports, 2019, 9, 15675.	1.6	43
87	Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with Pyreneâ€“Thiol Ligands for Semihydrogenation of Alkynes. ACS Applied Materials & Interfaces, 2019, 11, 37708-37719.	4.0	33
88	Controlled release of hydrogen isotope compounds and tunneling effect in the heterogeneously-catalyzed formic acid dehydrogenation. Nature Communications, 2019, 10, 4094.	5.8	56
89	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. Topics in Current Chemistry, 2019, 377, 27.	3.0	17
90	Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of p-nitrophenol. Journal of Materials Chemistry A, 2019, 7, 3783-3789.	5.2	41

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91	Pd Nanoparticles and Aminopolymers Confined in Hollow Silica Spheres as Efficient and Reusable Heterogeneous Catalysts for Semihydrogenation of Alkynes. ACS Catalysis, 2019, 9, 1993-2006.	5.5	101
92	PdAg nanoparticles supported on resorcinol-formaldehyde polymers containing amine groups: the promotional effect of phenylamine moieties on CO₂ transformation to formic acid. Journal of Materials Chemistry A, 2019, 7, 16356-16363.	5.2	39
93	Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. Chemical Communications, 2019, 55, 6743-6746.	2.2	54
94	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. Frontiers in Materials, 2019, 6, .	1.2	93
95	Tailoring the Size and Shape of Colloidal Noble Metal Nanocrystals as a Valuable Tool in Catalysis. Catalysis Surveys From Asia, 2019, 23, 127-148.	1.0	23
96	Twoâ€Phase System Utilizing Hydrophobic Metalâ€“Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. Angewandte Chemie, 2019, 131, 5456-5460.	1.6	30
97	Twoâ€Phase System Utilizing Hydrophobic Metalâ€“Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. Angewandte Chemie - International Edition, 2019, 58, 5402-5406.	7.2	169
98	Ultraâ€Low Loading of Ru Clusters over Graphitic Carbon Nitride: A Drastic Enhancement in Photocatalytic Hydrogen Evolution Activity. ChemCatChem, 2019, 11, 1963-1969.	1.8	21
99	Hollow titanosilicate nanospheres encapsulating PdAu alloy nanoparticles as reusable high-performance catalysts for a H₂O₂-mediated one-pot oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 7221-7231.	5.2	19
100	Incorporation of a Ru complex into an amine-functionalized metalâ€“organic framework for enhanced activity in photocatalytic aerobic benzyl alcohol oxidation. Catalysis Science and Technology, 2019, 9, 1511-1517.	2.1	31
101	Metalâ€“organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. Environmental Science: Nano, 2019, 6, 1006-1025.	2.2	245
102	Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. Bulletin of the Chemical Society of Japan, 2019, 92, 19-29.	2.0	31
103	Enhanced formic acid dehydrogenation by the synergistic alloying effect of PdCo catalysts supported on graphitic carbon nitride. International Journal of Hydrogen Energy, 2019, 44, 28483-28493.	3.8	46
104	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. Applied Catalysis A: General, 2019, 571, 25-41.	2.2	61
105	Catalytic combustion of diesel soot over Fe and Ag-doped manganese oxides: role of heteroatoms in the catalytic performances. Catalysis Science and Technology, 2018, 8, 1905-1914.	2.1	31
106	Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. NPG Asia Materials, 2018, 10, 277-292.	3.8	104
107	Ruthenium(II)â^'Bipyridine/NanoC₃N₄ Hybrids: Tunable Photochemical Properties by Using Exchangeable Alkali Metal Cations. Chemistry - an Asian Journal, 2018, 13, 1348-1356.	1.7	10
108	Oxidation of Benzyl Alcohol over Nanoporous Auâ€“CeO₂ Catalysts Prepared from Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. Industrial & Engineering Chemistry Research, 2018, 57, 5599-5605.	1.8	30

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109	PdAg Nanoparticles Supported on Functionalized Mesoporous Carbon: Promotional Effect of Surface Amine Groups in Reversible Hydrogen Delivery/Storage Mediated by Formic Acid/CO₂. ACS Catalysis, 2018, 8, 2277-2285.	5.5	157
110	Preparation, characterizations, and antibacterial properties of Cu/SnO2 nanocomposite bilayer coatings. Journal of Coatings Technology Research, 2018, 15, 437-443.	1.2	7
111	Enhancement of plasmonic activity by Pt/Ag bimetallic nanocatalyst supported on mesoporous silica in the hydrogen production from hydrogen storage material. Applied Catalysis B: Environmental, 2018, 223, 10-15.	10.8	97
112	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C3N4. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 327-333.	2.0	29
113	Controlled Pyrolysis of Niâ€MOFâ€74 as a Promising Precursor for the Creation of Highly Active Ni Nanocatalysts in Sizeâ€Selective Hydrogenation. Chemistry - A European Journal, 2018, 24, 898-905.	1.7	78
114	Recent Progress on Black Phosphorusâ€Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212.	4.6	50
115	Plasmonic metal/Mo_xW_{1â^'x}O_{3â^'y} for visible-light-enhanced H₂ production from ammonia borane. Journal of Materials Chemistry A, 2018, 6, 10932-10938.	5.2	47
116	Photocatalytic production of hydrogen peroxide through selective two-electron reduction of dioxygen utilizing amine-functionalized MIL-125 deposited with nickel oxide nanoparticles. Chemical Communications, 2018, 54, 9270-9273.	2.2	81
117	Surface Engineering of a Supported PdAg Catalyst for Hydrogenation of CO₂ to Formic Acid: Elucidating the Active Pd Atoms in Alloy Nanoparticles. Journal of the American Chemical Society, 2018, 140, 8902-8909.	6.6	202
118	Design of Singleâ€Site Photocatalysts by Using Metalâ€“Organic Frameworks as a Matrix. Chemistry - an Asian Journal, 2018, 13, 1767-1779.	1.7	49
119	Effects of Carbon Support Nanostructures on the Reactivity of a Ru Nanoparticle Catalyst in a Hydrogen Transfer Reaction. Organic Process Research and Development, 2018, 22, 1580-1585.	1.3	9
120	Black Phosphorusâ€Based Compound with Few Layers for Photocatalytic Water Oxidation. ChemCatChem, 2018, 10, 3424-3428.	1.8	14
121	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. Chemical Society Reviews, 2018, 47, 8072-8096.	18.7	176
122	Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity Enhancement under Visible Light. Journal of the American Chemical Society, 2018, 140, 9203-9210.	6.6	102
123	Simple Route for the Synthesis of Highly Active Bimetallic Nanoparticle Catalysts with Immiscible Ru and Ni Combination by utilizing a TiO₂ Support. ChemCatChem, 2018, 10, 3526-3531.	1.8	26
124	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to Î³-valerolactone over ZrO 2 catalyst supported on SBA-15 silica. Catalysis Today, 2017, 281, 418-428.	2.2	129
125	Reaction Kinetics on Allophaneâ€“Titania Nanocomposite Electrodes for Photofuel Cells. Chemistry Letters, 2017, 46, 659-661.	0.7	5
126	High-surface-area plasmonic MoO_{3â^'x}: rational synthesis and enhanced ammonia borane dehydrogenation activity. Journal of Materials Chemistry A, 2017, 5, 8946-8953.	5.2	94

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127	Palladium Nanoparticles Supported on Titaniumâ€Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. Chemistry - an Asian Journal, 2017, 12, 860-867.	1.7	57
128	Shape Effect of MnOx-Decorated CeO2 Catalyst in Diesel Soot Oxidation. Bulletin of the Chemical Society of Japan, 2017, 90, 556-564.	2.0	20
129	Synthesis of carbon-supported Pdâ€“Co bimetallic catalysts templated by Co nanoparticles using the galvanic replacement method for selective hydrogenation. RSC Advances, 2017, 7, 22294-22300.	1.7	35
130	Synthesis of mesoporous silica-supported Ag nanorod-based bimetallic catalysts and investigation of their plasmonic activity under visible light irradiation. Catalysis Science and Technology, 2017, 7, 2551-2558.	2.1	36
131	Palladium Copper Chromium Ternary Nanoparticles Constructed Inâ€…situ within a Basic Resin: Enhanced Activity in the Dehydrogenation of Formic Acid. ChemCatChem, 2017, 9, 3456-3462.	1.8	53
132	Controlling Photocatalytic Activity and Size Selectivity of TiO₂ Encapsulated in Hollow Silica Spheres by Tuning Silica Shell Structures Using Sacrificial Biomolecules. Langmuir, 2017, 33, 6314-6321.	1.6	17
133	Dramatically Enhanced Phenol Degradation on Alkali Cationâ€Anchored TiO₂/SiO₂ Hybrids: Effect of Cationâ€Ï€ Interaction as a Diffusionâ€Controlling Tool in Heterogeneous Catalysis. ChemistrySelect, 2017, 2, 4332-4337.	0.7	6
134	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO2 to Formic Acid. ChemCatChem, 2017, 9, 1867-1867.	1.8	3
135	Poly(ethyleneimine)â€tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO₂ to Formic Acid. ChemCatChem, 2017, 9, 1906-1914.	1.8	47
136	Isolated Single-Atomic Ru Catalyst Bound on a Layered Double Hydroxide for Hydrogenation of CO₂ to Formic Acid. ACS Catalysis, 2017, 7, 3147-3151.	5.5	225
137	Phenylamine-functionalized mesoporous silica supported PdAg nanoparticles: a dual heterogeneous catalyst for formic acid/CO₂-mediated chemical hydrogen delivery/storage. Chemical Communications, 2017, 53, 4677-4680.	2.2	107
138	Specific Enhancement of Activity of Carbon-supported Single-site Co Catalyst in the Microwave-assisted Solvent-free Aerobic Oxidation. Chemistry Letters, 2017, 46, 789-791.	0.7	8
139	Fabrication of Photocatalytic Paper Using TiO₂ Nanoparticles Confined in Hollow Silica Capsules. Langmuir, 2017, 33, 288-295.	1.6	44
140	Enhancement of Agâ€Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Singleâ€Site Tiâ€Oxide Moieties within a Silica Framework. Chemistry - A European Journal, 2017, 23, 3616-3622.	1.7	51
141	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to Î³-Valerolactone over Sulfonic Acid-Functionalized UiO-66. ACS Sustainable Chemistry and Engineering, 2017, 5, 1141-1152.	3.2	198
142	Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for Visible-Light-Enhanced Catalytic Reaction. Journal of Physical Chemistry C, 2017, 121, 23531-23540.	1.5	72
143	Multifunctional surface designed by nanocomposite coating of polytetrafluoroethylene and TiO2 photocatalyst: self-cleaning and superhydrophobicity. Scientific Reports, 2017, 7, 13628.	1.6	39
144	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance ofÂAu nanoparticles deposited on TiO₂. Journal of Materials Chemistry A, 2017, 5, 21883-21892.	5.2	75

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