

# Yasutaka Kuwahara

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196  
papers

5,971  
citations

45  
h-index

67  
g-index

211  
ext. papers

7,248  
ext. citations

7.4  
avg, IF

6.55  
L-index

#	Paper	IF	Citations
196	Overcoming Acidic HO/Fe(II/III) Redox-Induced Low HO Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	7
195	New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. <i>EnergyChem</i> , <b>2022</b> , 4, 100070	36.9	3
194	Improvement of acid resistance of Zn-doped dentin by newly generated chemical bonds. <i>Materials and Design</i> , <b>2022</b> , 215, 110412	8.1	1
193	Hydrodeoxygenation of Aromatic Ketones under Mild Conditions over Pd-loaded Hydrogen Molybdenum Bronze with Plasmonic Features. <i>Chemistry Letters</i> , <b>2022</b> , 51, 166-169	1.7	0
192	Direct Synthesis of a Regenerative CaO/Fe <sub>3</sub> O <sub>4</sub> /BiO <sub>2</sub> Composite Adsorbent from Converter Slag for CO <sub>2</sub> Capture Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 372-381	8.3	2
191	Visible-light-driven hydrogen peroxide production from water and dioxygen by perylenetetracarboxylic diimide modified titanium-based metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26371-26380	13	5
190	Defect Engineering of Pt/TiO Photocatalysts via Reduction Treatment Assisted by Hydrogen Spillover. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48669-48678	9.5	1
189	Recent strategies for enhancing the catalytic activity of CO <sub>2</sub> hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 54, 101765	7.6	6
188	Photocatalytically-driven H <sub>2</sub> production over Cu/TiO <sub>2</sub> catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , <b>2021</b> , 364, 182-189	5.3	13
187	Enhanced Catalysis of Plasmonic Silver Nanoparticles by a Combination of Macro-/Mesoporous Nanostructured Silica Support. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9150-9157	3.8	2
186	How the Morphology of NiO-Decorated CeO Nanostructures Affects Catalytic Properties in CO Methanation. <i>Langmuir</i> , <b>2021</b> , 37, 5376-5384	4	8
185	Modification of Ti-doped Hematite Photoanode with Quasi-molecular Cocatalyst: A Comparison of Improvement Mechanism Between Non-noble and Noble Metals. <i>ChemSusChem</i> , <b>2021</b> , 14, 2180-2187	8.3	2
184	Heterometallic and Hydrophobic Metal-Organic Frameworks as Durable Photocatalysts for Boosting Hydrogen Peroxide Production in a Two-Phase System. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4823-4830	6.1	1
183	Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , <b>2021</b> , 63, 165-233	12.6	8
182	Earth-Abundant Plasmonic Catalysts <b>2021</b> , 231-259		
181	Design of Plasmonic Catalysts Utilizing Nanostructures. <i>Journal of the Japan Petroleum Institute</i> , <b>2021</b> , 64, 155-165	1	
180	Promotional effect of surface plasmon resonance on direct formation of hydrogen peroxide from H <sub>2</sub> and O <sub>2</sub> over Pd/Graphene-Au nanorod catalytic system. <i>Journal of Catalysis</i> , <b>2021</b> , 394, 259-265	7.3	5

179	Catalytic and photocatalytic epoxidation over microporous titanosilicates with nanosheet or layered structure. <i>Catalysis Today</i> , <b>2021</b> , 376, 28-35	5.3	2
178	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> , <b>2021</b> , 283, 119628	21.8	23
177	Manipulation of plasmon-induced hot electron transport in Pd/MoO <sub>3-x</sub> @ZIF-8: Boosting the activity of Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119511	21.8	11
176	Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. <i>Materials Advances</i> , <b>2021</b> , 2, 880-906	3.3	6
175	Synthesis of Plasmonic Catalyst with Core-Shell Structure for Visible Light Enhanced Catalytic Performance. <i>Nanostructure Science and Technology</i> , <b>2021</b> , 233-243	0.9	
174	Design and Synthesis of Yolk-Shell Nanostructured Silica Encapsulating Metal Nanoparticles and Aminopolymers for Selective Hydrogenation Reactions. <i>Nanostructure Science and Technology</i> , <b>2021</b> , 395-411	0.9	
173	A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO hydrogenation to methanol. <i>Chemical Science</i> , <b>2021</b> , 12, 9902-9915	9.4	8
172	Plasmon-induced catalytic CO <sub>2</sub> hydrogenation by a nano-sheet Pt/HxMoO <sub>3</sub> hybrid with abundant surface oxygen vacancies. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13898-13907	13	14
171	PdCu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the Hydrogenation of CO <sub>2</sub> to Formate. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3961-3971	3.8	5
170	Photocatalytic Production of Hydrogen Peroxide Using MOF Materials <b>2021</b> , 339-364		
169	Hybrid Phase MoS <sub>2</sub> as a Noble Metal-Free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 20887-20895	3.8	1
168	Self-assembled core-shell nanocomposite catalysts consisting of single-site Co-coordinated g-C <sub>3</sub> N <sub>4</sub> and Au nanorods for plasmon-enhanced CO <sub>2</sub> reduction. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 52, 101691	7.6	4
167	The ClO <sub>2</sub> generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 296, 120387	21.8	4
166	Experimental and computational study on roles of WO promoting strong metal support promoter interaction in Pt catalysts during glycerol hydrogenolysis. <i>Scientific Reports</i> , <b>2021</b> , 11, 530	4.9	3
165	Introduction of a secondary ligand into titanium-based metal-organic frameworks for visible-light-driven photocatalytic hydrogen peroxide production from dioxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2815-2821	13	10
164	Dual Role of Missing-Linker Defects Terminated by Acetate Ligands in a Zirconium-Based MOF in Promoting Photocatalytic Hydrogen Peroxide Production. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 27909-27918	3.8	6
163	Crystal Facet Engineering and Hydrogen Spillover-Assisted Synthesis of Defective Pt/TiO Nanorods with Enhanced Visible Light-Driven Photocatalytic Activity.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
162	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> , <b>2020</b> , 10, 6356-6366	13.1	26

161	Metal-organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 14404-14414	3.6	18
160	Diesel Soot Combustion over Mn O Catalysts with Different Morphologies: Elucidating the Role of Active Oxygen Species in Soot Combustion. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 2005-2014	4.5	7
159	Hybrid phase 1T/2H-MoS with controllable 1T concentration and its promoted hydrogen evolution reaction. <i>Nanoscale</i> , <b>2020</b> , 12, 11908-11915	7.7	19
158	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a [email[protected]]/TiO <sub>2</sub> Catalyst with a TiO <sub>x</sub> Shell. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5819-5829	6.1	13
157	Additive-Free Aqueous Phase Synthesis of Formic Acid by Direct CO <sub>2</sub> Hydrogenation over a PdAg Catalyst on a Hydrophilic N-Doped Polymer/Silica Composite Support with High CO <sub>2</sub> Affinity. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5847-5855	6.1	8
156	Mesoporous silica-supported Ag-based plasmonic photocatalysts <b>2020</b> , 353-368		2
155	Tunable surface modification of a hematite photoanode by a Co(salen)-based cocatalyst for boosting photoelectrochemical performance. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 1714-1723	5.5	3
154	Construction of Hybrid MoS Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. <i>Langmuir</i> , <b>2020</b> , 36, 1174-1182	4	20
153	A direct conversion of blast furnace slag to a mesoporous silica/calcium oxide composite and its application in CO <sub>2</sub> captures. <i>Green Chemistry</i> , <b>2020</b> , 22, 3759-3768	10	11
152	PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO <sub>2</sub> to formate. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4437-4446	13.6	20
151	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , <b>2020</b> , 12, 11333-11363	7.7	79
150	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO <sub>2</sub> for aerobic alcohol oxidation. <i>Catalysis Today</i> , <b>2020</b> , 352, 255-261	5.3	20
149	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> , <b>2020</b> , 8, 1904-1910	13	35
148	CoO-decorated CeO heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. <i>Nanoscale</i> , <b>2020</b> , 12, 1779-1789	7.7	23
147	Design of Advanced Functional Materials Using Nanoporous Single-Site Photocatalysts. <i>Chemical Record</i> , <b>2020</b> , 20, 660-671	6.6	3
146	Pyrene-Thiol-modified Pd Nanoparticles on Carbon Support: Kinetic Control by Steric Hindrance and Improved Stability by the Catalyst-Support Interaction. <i>ChemCatChem</i> , <b>2020</b> , 12, 5880-5887	5.2	3
145	Improvement of the water oxidation performance of Ti, F co-modified hematite by surface modification with a Co(salen) molecular cocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21613-21622	13	6
144	Non-noble metal doped perovskite as a promising catalyst for ammonia borane dehydrogenation. <i>Catalysis Today</i> , <b>2020</b> , 351, 6-11	5.3	5

143	Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. <i>Catalysis Today</i> , <b>2020</b> , 355, 620-626	5.3	10
142	Some novel porous materials for selective catalytic oxidations. <i>Materials Today</i> , <b>2020</b> , 32, 244-259	21.8	24
141	Properties, fabrication and applications of plasmonic semiconductor nanocrystals. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 4141-4163	5.5	10
140	Synthesis of a binary alloy nanoparticle catalyst with an immiscible combination of Rh and Cu assisted by hydrogen spillover on a TiO support. <i>Chemical Science</i> , <b>2020</b> , 11, 4194-4203	9.4	14
139	Recent Applications of Amorphous Alloys to Design Skeletal Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 438-454	5.1	9
138	Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with Pyrene-Thiol Ligands for Semihydrogenation of Alkynes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37708-37719	9.5	12
137	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. <i>Topics in Current Chemistry</i> , <b>2019</b> , 377, 27	7.2	9
136	Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of p-nitrophenol. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3783-3789	13	25
135	Pd Nanoparticles and Aminopolymers Confined in Hollow Silica Spheres as Efficient and Reusable Heterogeneous Catalysts for Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 1993-2006	13.1	65
134	PdAg nanoparticles supported on resorcinol-formaldehyde polymers containing amine groups: the promotional effect of phenylamine moieties on CO <sub>2</sub> transformation to formic acid. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16356-16363	13	24
133	Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. <i>Chemical Communications</i> , <b>2019</b> , 55, 6743-6746	5.8	33
132	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	52
131	Tailoring the Size and Shape of Colloidal Noble Metal Nanocrystals as a Valuable Tool in Catalysis. <i>Catalysis Surveys From Asia</i> , <b>2019</b> , 23, 127-148	2.8	18
130	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5456-5460	3.6	14
129	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5402-5406	16.4	86
128	Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. <i>Catalysis Today</i> , <b>2019</b> , 324, 90-96	5.3	24
127	Plasmonic catalysis of Ag nanoparticles deposited on CeO <sub>2</sub> modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. <i>Catalysis Today</i> , <b>2019</b> , 324, 83-89	5.3	29
126	RuPd Alloy Nanoparticles Supported on Plasmonic H <sub>x</sub> MoO <sub>3</sub> y for Efficient Photocatalytic Reduction of p-Nitrophenol. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 3745-3752	2.3	3

125	Design of Pd@Graphene/Au Nanorod Nanocomposite Catalyst for Boosting Suzuki-Miyaura Coupling Reaction by Assistance of Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24575-24583	3.8	16
124	Preparation of Porous Ni Catalysts from Ni-Ti Amorphous Alloy and Their Application in Hydrogen Production from Hydrogen Carrier Molecule. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , <b>2019</b> , 105, 893-899	0.5	1
123	PdAg Nanoparticles within Core-Shell Structured Zeolitic Imidazolate Framework as a Dual Catalyst for Formic Acid-based Hydrogen Storage/Production. <i>Scientific Reports</i> , <b>2019</b> , 9, 15675	4.9	26
122	Hollow titanosilicate nanospheres encapsulating PdAu alloy nanoparticles as reusable high-performance catalysts for a H <sub>2</sub> O <sub>2</sub> -mediated one-pot oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7221-7231	13	12
121	Incorporation of a Ru complex into an amine-functionalized metal-organic framework for enhanced activity in photocatalytic aerobic benzyl alcohol oxidation. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 15111-15117	5.5	26
120	Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 19-29	5.1	21
119	Enhanced formic acid dehydrogenation by the synergistic alloying effect of PdCo catalysts supported on graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 28483-28493	6.7	26
118	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. <i>Applied Catalysis A: General</i> , <b>2019</b> , 571, 25-41	5.1	41
117	Defect Engineering of MoS and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 278-285	4.5	12
116	Catalytic combustion of diesel soot over Fe and Ag-doped manganese oxides: role of heteroatoms in the catalytic performances. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1905-1914	5.5	22
115	Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 277-292	10.3	75
114	Oxidation of Benzyl Alcohol over Nanoporous AuTeO <sub>2</sub> Catalysts Prepared from Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5599-5605	3.9	24
113	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> , <b>2018</b> , 223, 10-15	21.8	77
112	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C <sub>3</sub> N <sub>4</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 327-333	4.7	24
111	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 1767	4.5	38
110	Effects of Carbon Support Nanostructures on the Reactivity of a Ru Nanoparticle Catalyst in a Hydrogen Transfer Reaction. <i>Organic Process Research and Development</i> , <b>2018</b> , 22, 1580-1585	3.9	7
109	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , <b>2018</b> , 10, 3424-3428	5.2	14
108	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 8072-8096	58.5	129



107	Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity Enhancement under Visible Light. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9203-9210	16.4	61
106	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> , <b>2018</b> , 24, 898-905	4.8	54
105	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. <i>Small Methods</i> , <b>2018</b> , 2, 1800212	12.8	37
104	Plasmonic metal/Mo <sub>2</sub> W <sub>10</sub> O <sub>33</sub> for visible-light-enhanced H <sub>2</sub> production from ammonia borane. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10932-10938	13	34
103	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> , <b>2018</b> , 54, 9270-9273	5.8	44
102	The fabrication of TiO <sub>2</sub> supported on slag-made calcium silicate as low-cost photocatalyst with high adsorption ability for the degradation of dye pollutants in water. <i>Catalysis Today</i> , <b>2017</b> , 281, 21-28	5.3	42
101	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to Valerolactone over ZrO <sub>2</sub> catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , <b>2017</b> , 281, 418-428	5.3	95
100	High-surface-area plasmonic MoO <sub>3</sub> : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8946-8953	13	69
99	Palladium Nanoparticles Supported on Titanium-Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 860-867	4.5	43
98	Shape Effect of MnO <sub>x</sub> -Decorated CeO <sub>2</sub> Catalyst in Diesel Soot Oxidation. <i>Bulletin of the Chemical Society of Japan</i> , <b>2017</b> , 90, 556-564	5.1	17
97	Synthesis of carbon-supported Pd/Co bimetallic catalysts templated by Co nanoparticles using the galvanic replacement method for selective hydrogenation. <i>RSC Advances</i> , <b>2017</b> , 7, 22294-22300	3.7	28
96	Synthesis of mesoporous silica-supported Ag nanorod-based bimetallic catalysts and investigation of their plasmonic activity under visible light irradiation. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2551-2558	5.5	29
95	Controlling Photocatalytic Activity and Size Selectivity of TiO Encapsulated in Hollow Silica Spheres by Tuning Silica Shell Structures Using Sacrificial Biomolecules. <i>Langmuir</i> , <b>2017</b> , 33, 6314-6321	4	15
94	Dramatically Enhanced Phenol Degradation on Alkali Cation-Anchored TiO <sub>2</sub> /SiO <sub>2</sub> Hybrids: Effect of Cation-Interaction as a Diffusion-Controlling Tool in Heterogeneous Catalysis. <i>ChemistrySelect</i> , <b>2017</b> , 2, 4332-4337	1.8	6
93	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO <sub>2</sub> to Formic Acid. <i>ChemCatChem</i> , <b>2017</b> , 9, 1867-1867	5.2	3
92	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO <sub>2</sub> to Formic Acid. <i>ChemCatChem</i> , <b>2017</b> , 9, 1906-1914	5.2	30
91	Specific Enhancement of Activity of Carbon-supported Single-site Co Catalyst in the Microwave-assisted Solvent-free Aerobic Oxidation. <i>Chemistry Letters</i> , <b>2017</b> , 46, 789-791	1.7	7
90	Fabrication of Photocatalytic Paper Using TiO Nanoparticles Confined in Hollow Silica Capsules. <i>Langmuir</i> , <b>2017</b> , 33, 288-295	4	34

89	Enhancement of Ag-Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Single-Site Ti-Oxide Moieties within a Silica Framework. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 3616-3622	4.8	47
88	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> , <b>2017</b> , 5, 1141-1152	8.3	145
87	Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for Visible-Light-Enhanced Catalytic Reaction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23531-23540	3.8	57
86	Phosphate Removal from Aqueous Solutions Using Calcium Silicate Hydrate Prepared from Blast Furnace Slag. <i>ISIJ International</i> , <b>2017</b> , 57, 1657-1664	1.7	16
85	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> , <b>2017</b> , 5, 21883-21892	13	52
84	Mesoporous silica supported Pd/Ag bimetallic nanoparticles as a plasmonic catalyst for chemoselective hydrogenation of p-nitrostyrene under visible light irradiation. <i>Journal of Chemical Sciences</i> , <b>2017</b> , 129, 1661-1669	1.8	14
83	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> , <b>2017</b> , 5, 18518-18526	13	35
82	Synthesis of Ag nanoparticles encapsulated in hollow silica spheres for efficient and selective removal of low-concentrated sulfur compounds. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25431-25437	13	8
81	Effect of alkaline-earth species in phosphate glasses on the mobility of proton carriers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12385-12392	13	12
80	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 218, 555-569	21.8	144
79	Controlled synthesis of carbon-supported Co catalysts from single-sites to nanoparticles: characterization of the structural transformation and investigation of their oxidation catalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 4967-4974	3.6	30
78	Surface plasmon resonance enhancement of production of H <sub>2</sub> from ammonia borane solution with tunable Cu <sub>2</sub> S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , <b>2017</b> , 31, 57-63	17.1	45
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75	Morphology-controlled Pd nanocrystals as catalysts in tandem dehydrogenation-hydrogenation reactions. <i>Journal of Chemical Sciences</i> , <b>2017</b> , 129, 1695-1703	1.8	7
74	Liquid-phase oxidation of alkylaromatics to aromatic ketones with molecular oxygen over a Mn-based metal-organic framework. <i>Dalton Transactions</i> , <b>2017</b> , 46, 8415-8421	4.3	35
73	Room-Temperature and Aqueous-Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for Visible-Light-Enhanced Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2377-81	4.5	29
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66	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , <b>2016</b> , 32, 12110-12118	4	46
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62	Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H <sub>2</sub> production. <i>Nanoscale</i> , <b>2016</b> , 8, 7749-54	7.7	28
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55	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> , <b>2016</b> , 4, 10142-10150	13	76
54	Skeletal Au prepared from AuZr amorphous alloys with controlled atomic compositions and arrangement for active oxidation of benzyl alcohol. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8458-8465	13	12

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