# Yasutaka Kuwahara

### List of Publications by Citations

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#	Paper	IF	Citations
196	Dramatic enhancement of CO2 uptake by poly(ethyleneimine) using zirconosilicate supports. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10757-60	16.4	183
195	A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. <i>Advanced Materials</i> , <b>2015</b> , 27, 4616-21	24	151
194	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9316-24	16.4	151
193	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to EValerolactone over Sulfonic Acid-Functionalized UiO-66. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1141-1152	8.3	145
192	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
191	Plasmonic [email[protected] Nanoparticles Supported on a Basic Metal@rganic Framework: Synergic Boosting of H2 Production from Formic Acid. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1-7	20.1	133
190	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
189	Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. Journal of Materials Chemistry A, <b>2015</b> , 3, 5244-5258	13	109
188	Efficient photocatalytic degradation of organics diluted in water and air using TiO2 designed with zeolites and mesoporous silica materials. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2407-2416		109
187	Enhanced CO2 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> , <b>2012</b> , 18, 16649-64	4.8	100
186	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> , <b>2010</b> , 20, 5052		98
185	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to Evalerolactone over ZrO 2 catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , <b>2017</b> , 281, 418-428	5.3	95
184	Esterification of levulinic acid with ethanol over sulfated Si-doped ZrO2 solid acid catalyst: Study of the structure activity relationships. <i>Applied Catalysis A: General</i> , <b>2014</b> , 476, 186-196	5.1	93
183	Design and functionalization of photocatalytic systems within mesoporous silica. <i>ChemSusChem</i> , <b>2014</b> , 7, 1528-36	8.3	89
182	TiO2 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> , <b>2012</b> , 285, 223-234	7.3	87
181	Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation Agent and Its Application as an Advantageous Host Material for the TiO2 Photocatalyst. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1552-1559	3.8	87
180	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

179	Enhanced catalytic activity on titanosilicate molecular sieves controlled by cation-Interactions. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12462-5	16.4	84
178	Synthesis of Ce ions doped metalorganic framework for promoting catalytic H2 production from ammonia borane under visible light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14134-14141	13	83
177	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , <b>2020</b> , 12, 11333-11363	7.7	79
176	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
175	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
174	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
173	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> , <b>2015</b> , 3, 18889-18897	13	74
172	High-surface-area plasmonic MoO3⊠: rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8946-8953	13	69
171	Non-Noble-Metal Nanoparticle Supported on Metal-Organic Framework as an Efficient and Durable Catalyst for Promoting H2 Production from Ammonia Borane under Visible Light Irradiation. <i>ACS Applied Materials &amp; District Applied &amp; District Ap</i>	9.5	69
170	Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt-Pd Alloy Cocatalysts. <i>ACS Applied Materials &amp; Discrete Mate</i>	9.5	68
169	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
168	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> , <b>2014</b> , 237, 18-28	5.3	65
167	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, 9203-927	1 <del>5</del> 6.4	61
166	A new catalytic opportunity for waste materials: Application of waste slag based catalyst in CO2 fixation reaction. <i>Journal of CO2 Utilization</i> , <b>2013</b> , 1, 50-59	7.6	59
165	Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO(2) photocatalysts. <i>Chemical Communications</i> , <b>2008</b> , 4783-5	5.8	58
164	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
163	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> , <b>2013</b> , 1, 7199	13	57
162	Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 1842	5.5	55

161	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
160	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
159	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO2. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21883-21892	13	52
158	Catalytic transfer hydrogenation of levulinate esters to Evalerolactone over supported ruthenium hydroxide catalysts. <i>RSC Advances</i> , <b>2014</b> , 4, 45848-45855	3.7	50
157	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> , <b>2016</b> , 527, 45-52	5.1	50
156	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</i> <i>European Journal</i> , <b>2017</b> , 23, 3616-3622	4.8	47
155	Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into Evalerolactone at ambient conditions. <i>Catalysis Today</i> , <b>2015</b> , 258, 262-269	5.3	46
154	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
153	Surface plasmon resonance enhancement of production of H2 from ammonia borane solution with tunable Cu2\( \text{\text{\text{\text{\text{V}}}} S nanowires decorated by Pd nanoparticles. } \text{\text{\text{Nano Energy}, 2017, 31, 57-63}	17.1	45
152	A novel synthetic route to hydroxyapatitedeolite composite material from steel slag: investigation of synthesis mechanism and evaluation of physicochemical properties. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7263		45
151	TiO2 photocatalyst loaded on hydrophobic Si3N4 support for efficient degradation of organics diluted in water. <i>Applied Catalysis A: General</i> , <b>2008</b> , 350, 164-168	5.1	44
150	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
149	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
148	Silver nanoparticles supported on CeO2-SBA-15 by microwave irradiation possess metal-support interactions and enhanced catalytic activity. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15746-52	4.8	43
147	The fabrication of TiO2 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
146	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
145	Enhancement in adsorption and catalytic activity of enzymes immobilized on phosphorus- and calcium-modified MCM-41. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 10335-45	3.4	39
144	Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO2 photocatalyst. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 2407-2410	4.3	39

## (2016-2018)

143	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
142	Lipase-embedded silica nanoparticles with oil-filled core-shell structure: stable and recyclable platforms for biocatalysts. <i>Chemical Communications</i> , <b>2012</b> , 48, 2882-4	5.8	37
141	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. <i>Small Methods</i> , <b>2018</b> , 2, 1800212	12.8	37
140	Design of New Functional Titanium Oxide-Based Photocatalysts for Degradation of Organics Diluted in Water and Air. <i>Current Organic Chemistry</i> , <b>2010</b> , 14, 616-629	1.7	36
139	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, 1851	18 <sup>3</sup> 185	2 <del>8</del> 5
138	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
137	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, 1904-19	978	35
136	Fabrication of Photocatalytic Paper Using TiO Nanoparticles Confined in Hollow Silica Capsules. <i>Langmuir</i> , <b>2017</b> , 33, 288-295	4	34
135	Plasmonic metal/MoxW1NO3N for visible-light-enhanced H2 production from ammonia borane. Journal of Materials Chemistry A, <b>2018</b> , 6, 10932-10938	13	34
134	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
133	Investigation of Size Sensitivity in the Hydrogen Production from Formic Acid over Carbon-Supported Pd Nanoparticles. <i>ChemistrySelect</i> , <b>2016</b> , 1, 1879-1886	1.8	31
132	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO2 to Formic Acid. <i>ChemCatChem</i> , <b>2017</b> , 9, 1906-1914	5.2	30
131	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
130	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	-2 <i>5</i> 58	29
129	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
128	Plasmonic catalysis of Ag nanoparticles deposited on CeO2 modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. <i>Catalysis Today</i> , <b>2019</b> , 324, 83-89	5.3	29
127	Synthesis of carbon-supported Pdto 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
126	Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H2 production. <i>Nanoscale</i> , <b>2016</b> , 8, 7749-54	7.7	28

125	Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid. <i>Industrial &amp; Discourse Chemistry Research</i> , <b>2016</b> , 55, 7612-7620	3.9	27
124	Waste-slag hydrocalumite and derivatives as heterogeneous base catalysts. <i>ChemSusChem</i> , <b>2012</b> , 5, 152	. <b>3<del>.</del>.3</b> 2	27
123	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO2 Hydrogenation to Formate. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6356-6366	13.1	26
122	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
121	Facile Synthesis of YolkBhell Nanostructured Photocatalyst with Improved Adsorption Properties and Molecular-Sieving Properties. <i>ChemCatChem</i> , <b>2016</b> , 8, 2781-2788	5.2	26
120	Incorporation of a Ru complex into an amine-functionalized metal <b>b</b> rganic framework for enhanced activity in photocatalytic aerobic benzyl alcohol oxidation. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 151	14:51	7 <sup>26</sup>
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	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
117	Visible-Light-Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a Zirconium Phosphate Layered Matrix. <i>ChemCatChem</i> , <b>2015</b> , 7, 3519-3525	5.2	25
116	PdAg nanoparticles supported on resorcinol-formaldehyde polymers containing amine groups: the promotional effect of phenylamine moieties on CO2 transformation to formic acid. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16356-16363	13	24
115	Oxidation of Benzyl Alcohol over Nanoporous AutteO2 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
114	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C3N4. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 327-333	4.7	24
113	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
112	Some novel porous materials for selective catalytic oxidations. <i>Materials Today</i> , <b>2020</b> , 32, 244-259	21.8	24
111	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
110	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO2 to formate. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 283, 119628	21.8	23
109	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
108	Activity, Recyclability, and Stability of Lipases Immobilized on Oil-Filled Spherical Silica Nanoparticles with Different Silica Shell Structures. <i>ChemCatChem</i> , <b>2013</b> , 5, 2527-2536	5.2	22

## (2017-2015)

107	Size Effect of Carbon-Supported Pd Nanoparticles in the Hydrogen Production from Formic Acid. Bulletin of the Chemical Society of Japan, <b>2015</b> , 88, 1500-1502	5.1	21
106	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
105	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
104	Enhancement of Catalytic Activity Over AuPd Nanoparticles Loaded Metal Organic Framework Under Visible Light Irradiation. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 1765-1771	2.3	20
103	Catalytic Conversion of Levulinic Acid and Its Esters to Evalerolactone over Silica-Supported Zirconia Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , <b>2014</b> , 87, 1252-1254	5.1	20
102	PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO2 to formate. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4437-4	4446	20
101	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO2 for aerobic alcohol oxidation. <i>Catalysis Today</i> , <b>2020</b> , 352, 255-261	5.3	20
100	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
99	In situ-created Mn(III) complexes active for liquid-phase oxidation of alkylaromatics to aromatic ketones with molecular oxygen. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 442-448	5.5	19
98	Preparation of hydrophobically modified single-site Ti-containing mesoporous silica (TiSBA-15) and their enhanced catalytic performances. <i>Catalysis Today</i> , <b>2011</b> , 175, 393-397	5.3	19
97	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
96	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
95	Removal of Phosphate from Aqueous Solution Using Layered Double Hydroxide Prepared from Waste Iron-Making Slag. <i>Bulletin of the Chemical Society of Japan</i> , <b>2016</b> , 89, 472-480	5.1	18
94	Shape Effect of MnOx-Decorated CeO2 Catalyst in Diesel Soot Oxidation. <i>Bulletin of the Chemical Society of Japan</i> , <b>2017</b> , 90, 556-564	5.1	17
93	Palladium Nanoparticles Encapsulated in Hollow Titanosilicate Spheres as an Ideal Nanoreactor for One-pot Oxidation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 380-389	4.8	17
92	Synthesis of Ca-based Layered Double Hydroxide from Blast Furnace Slag and Its Catalytic Applications. <i>ISIJ International</i> , <b>2015</b> , 55, 1531-1537	1.7	17
91	Synthesis of Hydroxyapatite Zeolite Composite Material from Disposed Steel Slag and Investigation of Its Structural and Physicochemical Characteristics. <i>Chemistry Letters</i> , <b>2009</b> , 38, 626-627	1.7	17
90	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

89	Design of Pdl Traphene 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
88	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
87	Two-Phase System Utilizing Hydrophobic Metal©rganic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5456-5460	3.6	14
86	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , <b>2018</b> , 10, 3424-3428	5.2	14
85	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
84	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
83	Plasmon-induced catalytic CO2 hydrogenation by a nano-sheet Pt/HxMoO3Ŋ hybrid with abundant surface oxygen vacancies. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13898-13907	13	14
82	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a [email[protected]/TiO2 Catalyst with a TiOx Shell. ACS Applied Energy Materials, <b>2020</b> , 3, 5819-5829	6.1	13
81	Photocatalytically-driven H2 production over Cu/TiO2 catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , <b>2021</b> , 364, 182-189	5.3	13
80	Skeletal Ni Catalysts Prepared from Amorphous Ni-Zr Alloys: Enhanced Catalytic Performance for Hydrogen Generation from Ammonia Borane. <i>ChemPhysChem</i> , <b>2016</b> , 17, 412-7	3.2	13
79	Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with Pyrene-Thiol Ligands for Semihydrogenation of Alkynes. <i>ACS Applied Materials &amp; Discrete Semihydrogenation</i> 11, 37708-37719	9.5	12
78	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
77	Skeletal Au prepared from Au\(\mathbb{Z}\)r 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
76	Hollow titanosilicate nanospheres encapsulating PdAu alloy nanoparticles as reusable high-performance catalysts for a H2O2-mediated one-pot oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7221-7231	13	12
75	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
74	A direct conversion of blast furnace slag to a mesoporous silicallalcium oxide composite and its application in CO2 captures. <i>Green Chemistry</i> , <b>2020</b> , 22, 3759-3768	10	11
73	Enhanced ammonia-borane decomposition by synergistic catalysis using CoPd nanoparticles supported on titano-silicates. <i>RSC Advances</i> , <b>2016</b> , 6, 91768-91772	3.7	11
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