## Yasutaka Kuwahara

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Dramatic Enhancement of CO <sub>2</sub> Uptake by Poly(ethyleneimine) Using Zirconosilicate<br>Supports. Journal of the American Chemical Society, 2012, 134, 10757-10760.  | 6.6  | 205       |
| 2  | Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface<br>Plasmon Resonances. Journal of the American Chemical Society, 2016, 138, 9316-9324.   | 6.6  | 201       |
| 3  | Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to γ-Valerolactone<br>over Sulfonic Acid-Functionalized UiO-66. ACS Sustainable Chemistry and Engineering, 2017, 5, 1141-1152.  | 3.2  | 198       |
| 4  | Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. Nanoscale, 2020, 12, 11333-11363.  | 2.8  | 193       |
| 5  | Plasmonic Au@Pd Nanoparticles Supported on a Basic Metal–Organic Framework: Synergic Boosting<br>of H <sub>2</sub> Production from Formic Acid. ACS Energy Letters, 2017, 2, 1-7.   | 8.8  | 180       |
| 6  | 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       |
| 7  | A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visibleâ€Lightâ€Enhanced Catalytic<br>Reactions. Advanced Materials, 2015, 27, 4616-4621.  | 11.1 | 174       |
| 8  | Design and architecture of metal organic frameworks for visible light enhanced hydrogen<br>production. Applied Catalysis B: Environmental, 2017, 218, 555-569.  | 10.8 | 173       |
| 9  | Twoâ€Phase System Utilizing Hydrophobic Metal–Organic Frameworks (MOFs) for Photocatalytic<br>Synthesis of Hydrogen Peroxide. Angewandte Chemie - International Edition, 2019, 58, 5402-5406.   | 7.2  | 169       |
| 10 | Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to γ-valerolactone<br>over ZrO 2 catalyst supported on SBA-15 silica. Catalysis Today, 2017, 281, 418-428.  | 2.2  | 129       |
| 11 | Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light.<br>Journal of Materials Chemistry A, 2015, 3, 5244-5258.   | 5.2  | 127       |
| 12 | Efficient photocatalytic degradation of organics diluted in water and air using<br>TiO <sub>2</sub> designed with zeolites and mesoporous silica materials. Journal of Materials<br>Chemistry, 2011, 21, 2407-2416.   | 6.7  | 119       |
| 13 | A novel conversion process for waste slag: synthesis of a hydrotalcite-like compound and zeolite<br>from blast furnace slag and evaluation of adsorption capacities. Journal of Materials Chemistry, 2010,<br>20, 5052.   | 6.7  | 118       |
| 14 | Enhanced CO <sub>2</sub> Adsorption over Polymeric Amines Supported on Heteroatomâ€Incorporated<br>SBAâ€15 Silica: Impact of Heteroatom Type and Loading on Sorbent Structure and Adsorption<br>Performance. Chemistry - A European Journal, 2012, 18, 16649-16664. | 1.7  | 118       |
| 15 | Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. ChemSusChem, 2014, 7, 1528-1536.   | 3.6  | 109       |
| 16 | Esterification of levulinic acid with ethanol over sulfated Si-doped ZrO2 solid acid catalyst: Study of the structure–activity relationships. Applied Catalysis A: General, 2014, 476, 186-196.   | 2.2  | 104       |
| 17 | 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       |
| 18 | Synthesis of Ce ions doped metal–organic framework for promoting catalytic H <sub>2</sub><br>production from ammonia borane under visible light irradiation. Journal of Materials Chemistry A,<br>2015. 3. 14134-14141  | 5.2  | 102       |

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|----|---|------|-----------|
| 19 | Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity<br>Enhancement under Visible Light. Journal of the American Chemical Society, 2018, 140, 9203-9210.  | 6.6  | 102       |
| 20 | TiO2 photocatalyst for degradation of organic compounds in water and air supported on highly<br>hydrophobic FAU zeolite: Structural, sorptive, and photocatalytic studies. Journal of Catalysis, 2012,<br>285, 223-234.   | 3.1  | 101       |
| 21 | Pd Nanoparticles and Aminopolymers Confined in Hollow Silica Spheres as Efficient and Reusable<br>Heterogeneous Catalysts for Semihydrogenation of Alkynes. ACS Catalysis, 2019, 9, 1993-2006.  | 5.5  | 101       |
| 22 | Enhancement of plasmonic activity by Pt/Ag bimetallic nanocatalyst supported on mesoporous silica in<br>the hydrogen production from hydrogen storage material. Applied Catalysis B: Environmental, 2018,<br>223, 10-15.  | 10.8 | 97        |
| 23 | Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation<br>Agent and Its Application as an Advantageous Host Material for the TiO <sub>2</sub> Photocatalyst.<br>Journal of Physical Chemistry C, 2009, 113, 1552-1559.      | 1.5  | 96        |
| 24 | Enhanced Catalytic Activity on Titanosilicate Molecular Sieves Controlled by Cationâ^'Ï€ Interactions.<br>Journal of the American Chemical Society, 2011, 133, 12462-12465.   | 6.6  | 96        |
| 25 | Pd/Ag and Pd/Au bimetallic nanocatalysts on mesoporous silica for plasmon-mediated enhanced catalytic activity under visible light irradiation. Journal of Materials Chemistry A, 2016, 4, 10142-10150.   | 5.2  | 95        |
| 26 | High-surface-area plasmonic MoO <sub>3â^'x</sub> : rational synthesis and enhanced ammonia borane<br>dehydrogenation activity. Journal of Materials Chemistry A, 2017, 5, 8946-8953.  | 5.2  | 94        |
| 27 | New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. Frontiers in Materials, 2019, 6, .  | 1.2  | 93        |
| 28 | Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt–Pd Alloy Cocatalysts.<br>ACS Applied Materials & Interfaces, 2016, 8, 20667-20674.   | 4.0  | 91        |
| 29 | 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        |
| 30 | Non-Noble-Metal Nanoparticle Supported on Metal–Organic Framework as an Efficient and Durable<br>Catalyst for Promoting H <sub>2</sub> Production from Ammonia Borane under Visible Light<br>Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 21278-21284. | 4.0  | 88        |
| 31 | Synthesis and characterization of a Pd/Ag bimetallic nanocatalyst on SBA-15 mesoporous silica as a plasmonic catalyst. Journal of Materials Chemistry A, 2015, 3, 18889-18897.  | 5.2  | 87        |
| 32 | Photocatalytic production of hydrogen peroxide through selective two-electron reduction of<br>dioxygen utilizing amine-functionalized MIL-125 deposited with nickel oxide nanoparticles. Chemical<br>Communications, 2018, 54, 9270-9273.                           | 2.2  | 81        |
| 33 | Controlled Pyrolysis of Niâ€MOFâ€74 as a Promising Precursor for the Creation of Highly Active Ni<br>Nanocatalysts in Sizeâ€Selective Hydrogenation. Chemistry - A European Journal, 2018, 24, 898-905.   | 1.7  | 78        |
| 34 | Esterification of levulinic acid with ethanol over sulfated mesoporous zirconosilicates: Influences of the preparation conditions on the structural properties and catalytic performances. Catalysis Today, 2014, 237, 18-28.                                       | 2.2  | 75        |
| 35 | Enhanced hydrogen production from ammonia borane using controlled plasmonic performance ofÂAu<br>nanoparticles deposited on TiO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 21883-21892.  | 5.2  | 75        |
| 36 | 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. Journal of Materials Chemistry A, 2013, 1, 7199.                                      | 5.2  | 72        |

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|----|---|------|-----------|
| 37 | Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for<br>Visible-Light-Enhanced Catalytic Reaction. Journal of Physical Chemistry C, 2017, 121, 23531-23540.   | 1.5  | 72        |
| 38 | A new catalytic opportunity for waste materials: Application of waste slag based catalyst in CO2 fixation reaction. Journal of CO2 Utilization, 2013, 1, 50-59.   | 3.3  | 68        |
| 39 | Surface plasmon resonance enhancement of production of H2 from ammonia borane solution with tunable Cu2â^'xS nanowires decorated by Pd nanoparticles. Nano Energy, 2017, 31, 57-63.   | 8.2  | 65        |
| 40 | Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO2 photocatalysts. Chemical Communications, 2008, , 4783.   | 2.2  | 63        |
| 41 | Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. Catalysis Science and Technology, 2012, 2, 1842.   | 2.1  | 63        |
| 42 | Hybrid phase 1T/2H-MoS <sub>2</sub> with controllable 1T concentration and its promoted hydrogen evolution reaction. Nanoscale, 2020, 12, 11908-11915.  | 2.8  | 62        |
| 43 | Highly efficient Ru/carbon catalysts prepared by pyrolysis of supported Ru complex towards the hydrogen production from ammonia borane. Applied Catalysis A: General, 2016, 527, 45-52.   | 2.2  | 61        |
| 44 | Evolution of the PVP–Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. Langmuir, 2016, 32, 12110-12118.  | 1.6  | 61        |
| 45 | 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        |
| 46 | Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for<br>hydrogenation of levulinic acid and its esters into γ-valerolactone at ambient conditions. Catalysis<br>Today, 2015, 258, 262-269.                     | 2.2  | 59        |
| 47 | Palladium Nanoparticles Supported on Titaniumâ€Doped Graphitic Carbon Nitride for Formic Acid<br>Dehydrogenation. Chemistry - an Asian Journal, 2017, 12, 860-867.  | 1.7  | 57        |
| 48 | A novel synthetic route to hydroxyapatite–zeolite composite material from steel slag: investigation of synthesis mechanism and evaluation of physicochemical properties. Journal of Materials Chemistry, 2009, 19, 7263.                        | 6.7  | 55        |
| 49 | Catalytic transfer hydrogenation of levulinate esters to γ-valerolactone over supported ruthenium<br>hydroxide catalysts. RSC Advances, 2014, 4, 45848-45855.   | 1.7  | 55        |
| 50 | Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. Chemical Communications, 2019, 55, 6743-6746.  | 2.2  | 54        |
| 51 | 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        |
| 52 | Overcoming Acidic H <sub>2</sub> O <sub>2</sub> /Fe(II/III) Redox-Induced Low<br>H <sub>2</sub> O <sub>2</sub> Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis.<br>Environmental Science & Technology, 2022, 56, 2617-2625. | 4.6  | 54        |
| 53 | Silver Nanoparticles Supported on CeO <sub>2</sub> â€\$BAâ€15 by Microwave Irradiation Possess<br>Metal–Support Interactions and Enhanced Catalytic Activity. Chemistry - A European Journal, 2014, 20,<br>15746-15752.                         | 1.7  | 52        |
| 54 | Enhancement of Agâ€Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by<br>the Assistance of Singleâ€6ite Tiâ€Oxide Moieties within a Silica Framework. Chemistry - A European<br>Journal, 2017, 23, 3616-3622.         | 1.7  | 51        |

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|----|---|-----|-----------|
| 55 | Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine)<br>as Reusable Catalysts for CO <sub>2</sub> Hydrogenation to Formate. ACS Catalysis, 2020, 10,<br>6356-6366.           | 5.5 | 51        |
| 56 | Recent Progress on Black Phosphorusâ€Based Materials for Photocatalytic Water Splitting. Small<br>Methods, 2018, 2, 1800212.  | 4.6 | 50        |
| 57 | 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. Catalysis Today, 2017, 281, 21-28.               | 2.2 | 49        |
| 58 | Design of Singleâ€6ite Photocatalysts by Using Metal–Organic Frameworks as a Matrix. Chemistry - an<br>Asian Journal, 2018, 13, 1767-1779.  | 1.7 | 49        |
| 59 | TiO2 photocatalyst loaded on hydrophobic Si3N4 support for efficient degradation of organics<br>diluted in water. Applied Catalysis A: General, 2008, 350, 164-168.   | 2.2 | 48        |
| 60 | One-pot synthesis of molybdenum oxide nanoparticles encapsulated in hollow silica spheres: an<br>efficient and reusable catalyst for epoxidation of olefins. Journal of Materials Chemistry A, 2017, 5,<br>18518-18526. | 5.2 | 48        |
| 61 | Enhancement in Adsorption and Catalytic Activity of Enzymes Immobilized on Phosphorus- and<br>Calcium-Modified MCM-41. Journal of Physical Chemistry B, 2011, 115, 10335-10345.   | 1.2 | 47        |
| 62 | Poly(ethyleneimine)â€ŧethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation<br>of CO <sub>2</sub> to Formic Acid. ChemCatChem, 2017, 9, 1906-1914.  | 1.8 | 47        |
| 63 | Plasmonic metal/Mo <sub>x</sub> W <sub>1â^`x</sub> O <sub>3â^`y</sub> for visible-light-enhanced<br>H <sub>2</sub> production from ammonia borane. Journal of Materials Chemistry A, 2018, 6,<br>10932-10938.           | 5.2 | 47        |
| 64 | 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        |
| 65 | Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO2 photocatalyst.<br>Journal of Materials Science, 2008, 43, 2407-2410.   | 1.7 | 44        |
| 66 | Investigation of Size Sensitivity in the Hydrogen Production from Formic Acid over Carbon‣upported<br>Pd Nanoparticles. ChemistrySelect, 2016, 1, 1879-1886.  | 0.7 | 44        |
| 67 | Fabrication of Photocatalytic Paper Using TiO <sub>2</sub> Nanoparticles Confined in Hollow Silica<br>Capsules. Langmuir, 2017, 33, 288-295.  | 1.6 | 44        |
| 68 | Some novel porous materials for selective catalytic oxidations. Materials Today, 2020, 32, 244-259.   | 8.3 | 44        |
| 69 | 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        |
| 70 | Metal–organic framework-based nanomaterials for photocatalytic hydrogen peroxide production.<br>Physical Chemistry Chemical Physics, 2020, 22, 14404-14414.   | 1.3 | 43        |
| 71 | Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of <i>p</i> -nitrophenol. Journal of Materials Chemistry A, 2019, 7, 3783-3789.                                       | 5.2 | 41        |
| 72 | Construction of Hybrid MoS <sub>2</sub> Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. Langmuir, 2020, 36, 1174-1182.                                      | 1.6 | 41        |

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|----|---|-----|-----------|
| 73 | Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from form formic acid. Catalysis Today, 2019, 324, 90-96.  | 2.2 | 40        |
| 74 | Lipase-embedded silica nanoparticles with oil-filled core–shell structure: stable and recyclable platforms for biocatalysts. Chemical Communications, 2012, 48, 2882.   | 2.2 | 39        |
| 75 | Defect Engineering of MoS <sub>2</sub> and Its Impacts on Electrocatalytic and Photocatalytic<br>Behavior in Hydrogen Evolution Reactions. Chemistry - an Asian Journal, 2019, 14, 278-285.   | 1.7 | 39        |
| 76 | 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. Journal of Materials Chemistry A, 2019, 7, 16356-16363.          | 5.2 | 39        |
| 77 | Introduction of a secondary ligand into titanium-based metal–organic frameworks for<br>visible-light-driven photocatalytic hydrogen peroxide production from dioxygen reduction. Journal<br>of Materials Chemistry A, 2021, 9, 2815-2821.                   | 5.2 | 39        |
| 78 | Liquid-phase oxidation of alkylaromatics to aromatic ketones with molecular oxygen over a Mn-based metal–organic framework. Dalton Transactions, 2017, 46, 8415-8421.   | 1.6 | 38        |
| 79 | Visible-light-driven hydrogen peroxide production from water and dioxygen by<br>perylenetetracarboxylic diimide modified titanium-based metal–organic frameworks. Journal of<br>Materials Chemistry A, 2021, 9, 26371-26380.                                | 5.2 | 38        |
| 80 | Design of New Functional Titanium Oxide-Based Photocatalysts for Degradation of Organics Diluted in Water and Air. Current Organic Chemistry, 2010, 14, 616-629.  | 0.9 | 37        |
| 81 | Controlled synthesis of carbon-supported Co catalysts from single-sites to nanoparticles:<br>characterization of the structural transformation and investigation of their oxidation catalysis.<br>Physical Chemistry Chemical Physics, 2017, 19, 4967-4974. | 1.3 | 37        |
| 82 | CoO <sub>x</sub> -decorated CeO <sub>2</sub> heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. Nanoscale, 2020, 12, 1779-1789.   | 2.8 | 37        |
| 83 | 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        |
| 84 | Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid.<br>Industrial & Engineering Chemistry Research, 2016, 55, 7612-7620.  | 1.8 | 35        |
| 85 | Synthesis of carbon-supported Pd–Co bimetallic catalysts templated by Co nanoparticles using the galvanic replacement method for selective hydrogenation. RSC Advances, 2017, 7, 22294-22300.   | 1.7 | 35        |
| 86 | 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        |
| 87 | A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO <sub>2</sub><br>hydrogenation to methanol. Chemical Science, 2021, 12, 9902-9915.   | 3.7 | 35        |
| 88 | Roomâ€Temperature and Aqueousâ€Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for<br>Visibleâ€Lightâ€Enhanced Hydrogen Generation. Chemistry - an Asian Journal, 2016, 11, 2377-2381.  | 1.7 | 33        |
| 89 | Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with<br>Pyrene–Thiol Ligands for Semihydrogenation of Alkynes. ACS Applied Materials & Interfaces, 2019,<br>11, 37708-37719.  | 4.0 | 33        |
| 90 | Waste‣lag Hydrocalumite and Derivatives as Heterogeneous Base Catalysts. ChemSusChem, 2012, 5, 1523-1532.   | 3.6 | 32        |

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|-----|--|------|-----------|
| 91  | Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H <sub>2</sub> production. Nanoscale, 2016, 8, 7749-7754.  | 2.8  | 32        |
| 92  | Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO2 for aerobic alcohol oxidation. Catalysis Today, 2020, 352, 255-261.  | 2.2  | 32        |
| 93  | Synthesis of a binary alloy nanoparticle catalyst with an immiscible combination of Rh and Cu assisted by hydrogen spillover on a TiO <sub>2</sub> support. Chemical Science, 2020, 11, 4194-4203.   | 3.7  | 32        |
| 94  | 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        |
| 95  | Design of Pd–Graphene–Au Nanorod Nanocomposite Catalyst for Boosting Suzuki–Miyaura Coupling<br>Reaction by Assistance of Surface Plasmon Resonance. Journal of Physical Chemistry C, 2019, 123,<br>24575-24583.   | 1.5  | 31        |
| 96  | Incorporation of a Ru complex into an amine-functionalized metal–organic framework for enhanced<br>activity in photocatalytic aerobic benzyl alcohol oxidation. Catalysis Science and Technology, 2019, 9,<br>1511-1517.   | 2.1  | 31        |
| 97  | Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light<br>Irradiation. Bulletin of the Chemical Society of Japan, 2019, 92, 19-29.   | 2.0  | 31        |
| 98  | Plasmon-induced catalytic CO <sub>2</sub> hydrogenation by a nano-sheet<br>Pt/H <sub>x</sub> MoO <sub>3â^'y</sub> hybrid with abundant surface oxygen vacancies. Journal of<br>Materials Chemistry A, 2021, 9, 13898-13907.  | 5.2  | 31        |
| 99  | PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO <sub>2</sub> to formate. Journal of Materials Chemistry A, 2020, 8, 4437-4446.   | 5.2  | 31        |
| 100 | Oxidation of Benzyl Alcohol over Nanoporous Au–CeO <sub>2</sub> Catalysts Prepared from<br>Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. Industrial & Engineering<br>Chemistry Research, 2018, 57, 5599-5605.                                    | 1.8  | 30        |
| 101 | Twoâ€Phase System Utilizing Hydrophobic Metal–Organic Frameworks (MOFs) for Photocatalytic<br>Synthesis of Hydrogen Peroxide. Angewandte Chemie, 2019, 131, 5456-5460.   | 1.6  | 30        |
| 102 | Facile Synthesis of Yolk–Shell Nanostructured Photocatalyst with Improved Adsorption Properties<br>and Molecular‧ieving Properties. ChemCatChem, 2016, 8, 2781-2788.   | 1.8  | 29        |
| 103 | Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C3N4. Journal of<br>Photochemistry and Photobiology A: Chemistry, 2018, 358, 327-333.   | 2.0  | 29        |
| 104 | Manipulation of plasmon-induced hot electron transport in Pd/MoO3-x@ZIF-8: Boosting the activity of<br>Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. Applied Catalysis B:<br>Environmental, 2021, 282, 119511.                           | 10.8 | 29        |
| 105 | How the Morphology of NiO <i><sub></sub></i> -Decorated CeO <sub>2</sub> Nanostructures Affects<br>Catalytic Properties in CO <sub>2</sub> Methanation. Langmuir, 2021, 37, 5376-5384.   | 1.6  | 28        |
| 106 | Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following<br>Sacrificial Surface Modification of a Ag@Pd/TiO <sub>2</sub> Catalyst with a TiO <i><sub>x</sub></i><br>Shell. ACS Applied Energy Materials, 2020, 3, 5819-5829. | 2.5  | 27        |
| 107 | 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        |
| 108 | Dual Role of Missing-Linker Defects Terminated by Acetate Ligands in a Zirconium-Based MOF in<br>Promoting Photocatalytic Hydrogen Peroxide Production. Journal of Physical Chemistry C, 2021, 125,<br>27909-27918.  | 1.5  | 27        |

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|-----|---|------|-----------|
| 109 | Ru/H MoO3- with plasmonic effect for boosting photothermal catalytic CO2 methanation. Applied Catalysis B: Environmental, 2022, 317, 121734.  | 10.8 | 27        |
| 110 | Size Effect of Carbon-Supported Pd Nanoparticles in the Hydrogen Production from Formic Acid.<br>Bulletin of the Chemical Society of Japan, 2015, 88, 1500-1502.  | 2.0  | 26        |
| 111 | Visibleâ€Lightâ€Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a<br>Zirconium Phosphate Layered Matrix. ChemCatChem, 2015, 7, 3519-3525.   | 1.8  | 26        |
| 112 | Pd–Cu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the<br>Hydrogenation of CO <sub>2</sub> to Formate. Journal of Physical Chemistry C, 2021, 125, 3961-3971.   | 1.5  | 25        |
| 113 | Catalytic Conversion of Levulinic Acid and Its Esters to γ-Valerolactone over Silica-Supported Zirconia<br>Catalysts. Bulletin of the Chemical Society of Japan, 2014, 87, 1252-1254.   | 2.0  | 24        |
| 114 | Heterometallic and Hydrophobic Metal–Organic Frameworks as Durable Photocatalysts for Boosting<br>Hydrogen Peroxide Production in a Two-Phase System. ACS Applied Energy Materials, 2021, 4, 4823-4830.   | 2.5  | 24        |
| 115 | The ClO· generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO4 photoanodes. Applied Catalysis B: Environmental, 2021, 296, 120387.   | 10.8 | 24        |
| 116 | Activity, Recyclability, and Stability of Lipases Immobilized on Oilâ€Filled Spherical Silica Nanoparticles<br>with Different Silica Shell Structures. ChemCatChem, 2013, 5, 2527-2536.   | 1.8  | 23        |
| 117 | Phosphate Removal from Aqueous Solutions Using Calcium Silicate Hydrate Prepared from Blast<br>Furnace Slag. ISIJ International, 2017, 57, 1657-1664.   | 0.6  | 23        |
| 118 | Tailoring the Size and Shape of Colloidal Noble Metal Nanocrystals as a Valuable Tool in Catalysis.<br>Catalysis Surveys From Asia, 2019, 23, 127-148.  | 1.0  | 23        |
| 119 | Preparation of hydrophobically modified single-site Ti-containing mesoporous silica (TiSBA-15) and their enhanced catalytic performances. Catalysis Today, 2011, 175, 393-397.  | 2.2  | 22        |
| 120 | Synthesis of Ca-based Layered Double Hydroxide from Blast Furnace Slag and Its Catalytic Applications.<br>ISIJ International, 2015, 55, 1531-1537.  | 0.6  | 22        |
| 121 | Enhancement of Catalytic Activity Over AuPd Nanoparticles Loaded Metal Organic Framework Under<br>Visible Light Irradiation. Topics in Catalysis, 2016, 59, 1765-1771.  | 1.3  | 22        |
| 122 | Removal of Phosphate from Aqueous Solution Using Layered Double Hydroxide Prepared from Waste<br>Iron-Making Slag. Bulletin of the Chemical Society of Japan, 2016, 89, 472-480.  | 2.0  | 22        |
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