# Kohsuke Mori

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 264 papers | 14,208 citations | 20797 60 h-index | 28275 105 g-index |
| 281 all docs | 281 docs citations | 281 times ranked | 12627 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydroxyapatite-Supported Palladium Nanoclusters:Â A Highly Active Heterogeneous Catalyst for Selective Oxidation of Alcohols by Use of Molecular Oxygen. Journal of the American Chemical Society, 2004, 126, 10657-10666. | 6.6 | 904 |
| 2 | Controlled Synthesis of Hydroxyapatite-Supported Palladium Complexes as Highly Efficient Heterogeneous Catalysts. Journal of the American Chemical Society, 2002, 124, 11572-11573. | 6.6 | 390 |
| 3 | Pd and Pdâ€“Ag Nanoparticles within a Macroreticular Basic Resin: An Efficient Catalyst for Hydrogen Production from Formic Acid Decomposition. ACS Catalysis, 2013, 3, 1114-1119. | 5.5 | 339 |
| 4 | Surfactantâ€Free Nonaqueous Synthesis of Plasmonic Molybdenum Oxide Nanosheets with Enhanced Catalytic Activity for Hydrogen Generation from Ammonia Borane under Visible Light. Angewandte Chemie - International Edition, 2014, 53, 2910-2914. | 7.2 | 334 |
| 5 | Ru and Ruâ€“Ni Nanoparticles on TiO<sub>2</sub> Support as Extremely Active Catalysts for Hydrogen Production from Ammoniaâ€“Borane. ACS Catalysis, 2016, 6, 3128-3135. | 5.5 | 310 |
| 6 | Photocatalytic reduction of CO2 with H2O on various titanium oxide photocatalysts. RSC Advances, 2012, 2, 3165. | 1.7 | 286 |
| 7 | The Synthesis of Sizeâ€•and Colorâ€Controlled Silver Nanoparticles by Using Microwave Heating and their Enhanced Catalytic Activity by Localized Surface Plasmon Resonance. Angewandte Chemie - International Edition, 2013, 52, 7446-7450. | 7.2 | 225 |
| 8 | Isolated Single-Atomic Ru Catalyst Bound on a Layered Double Hydroxide for Hydrogenation of CO<sub>2</sub> to Formic Acid. ACS Catalysis, 2017, 7, 3147-3151. | 5.5 | 225 |
| 9 | Catalysis of a hydroxyapatite-bound Ru complex: efficient heterogeneous oxidation of primary amines to nitriles in the presence of molecular oxygen. Chemical Communications, 2001, , 461-462. | 2.2 | 212 |
| 10 | Surface Engineering of a Supported PdAg Catalyst for Hydrogenation of CO<sub>2</sub> to Formic Acid: Elucidating the Active Pd Atoms in Alloy Nanoparticles. Journal of the American Chemical Society, 2018, 140, 8902-8909. | 6.6 | 202 |
| 11 | Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. Journal of the American Chemical Society, 2016, 138, 9316-9324. | 6.6 | 201 |
| 12 | Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. Chemical Communications, 2014, 50, 11645-11648. | 2.2 | 199 |
| 13 | Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. Nanoscale, 2020, 12, 11333-11363. | 2.8 | 193 |
| 14 | Amine-Functionalized MIL-125 with Imbedded Palladium Nanoparticles as an Efficient Catalyst for Dehydrogenation of Formic Acid at Ambient Temperature. Journal of Physical Chemistry C, 2013, 117, 22805-22810. | 1.5 | 188 |
| 15 | Plasmonic Au@Pd Nanoparticles Supported on a Basic Metalâ€“Organic Framework: Synergic Boosting of H<sub>2</sub> Production from Formic Acid. ACS Energy Letters, 2017, 2, 1-7. | 8.8 | 180 |
| 16 | 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 |
| 17 | A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visibleâ€Lightâ€Enhanced Catalytic Reactions. Advanced Materials, 2015, 27, 4616-4621. | 11.1 | 174 |
| 18 | Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. Applied Catalysis B: Environmental, 2017, 218, 555-569. | 10.8 | 173 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | PdAg Nanoparticles Supported on Functionalized Mesoporous Carbon: Promotional Effect of Surface Amine Groups in Reversible Hydrogen Delivery/Storage Mediated by Formic Acid/CO<sub>2</sub>. ACS Catalysis, 2018, 8, 2277-2285. | 5.5 | 157 |
| 21 | Design of High-Performance Heterogeneous Metal Catalysts for Green and Sustainable Chemistry. Bulletin of the Chemical Society of Japan, 2006, 79, 981-1016. | 2.0 | 141 |
| 22 | Development of Rutheniumâ^'Hydroxyapatite-Encapsulated Superparamagnetic Î³-Fe2O3Nanocrystallites as an Efficient Oxidation Catalyst by Molecular Oxygen. Chemistry of Materials, 2007, 19, 1249-1256. | 3.2 | 139 |
| 23 | Hydroxyapatite-Bound Cationic Ruthenium Complexes as Novel Heterogeneous Lewis Acid Catalysts for Dielsâ^'Alder and Aldol Reactions. Journal of the American Chemical Society, 2003, 125, 11460-11461. | 6.6 | 131 |
| 24 | Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. Journal of Materials Chemistry A, 2015, 3, 5244-5258. | 5.2 | 127 |
| 25 | Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated Î³-Fe2O3 nanocrystallites for highly efficient dehalogenation with molecular hydrogen. Green Chemistry, 2007, 9, 1246. | 4.6 | 126 |
| 26 | Enhancement of the Photoinduced Oxidation Activity of a Ruthenium(II) Complex Anchored on Silicaâ€Coated Silver Nanoparticles by Localized Surface Plasmon Resonance. Angewandte Chemie - International Edition, 2010, 49, 8598-8601. | 7.2 | 126 |
| 27 | Applications of Single-site Photocatalysts Implanted within the Silica Matrixes of Zeolite and Mesoporous Silica. Chemistry Letters, 2007, 36, 348-353. | 0.7 | 120 |
| 28 | A novel conversion process for waste slag: synthesis of a hydrotalcite-like compound and zeolite from blast furnace slag and evaluation of adsorption capacities. Journal of Materials Chemistry, 2010, 20, 5052. | 6.7 | 118 |
| 29 | Efficient heterogeneous oxidation of organosilanes to silanols catalysed by a hydroxyapatite-bound Ru complex in the presence of water and molecular oxygen. New Journal of Chemistry, 2002, 26, 1536-1538. | 1.4 | 110 |
| 30 | Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. ChemSusChem, 2014, 7, 1528-1536. | 3.6 | 109 |
| 31 | Hydrogen spillover-driven synthesis of high-entropy alloy nanoparticles as a robust catalyst for CO2 hydrogenation. Nature Communications, 2021, 12, 3884. | 5.8 | 109 |
| 32 | Phenylamine-functionalized mesoporous silica supported PdAg nanoparticles: a dual heterogeneous catalyst for formic acid/CO<sub>2</sub>-mediated chemical hydrogen delivery/storage. Chemical Communications, 2017, 53, 4677-4680. | 2.2 | 107 |
| 33 | 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 |
| 34 | Synergic Catalysis of PdCu Alloy Nanoparticles within a Macroreticular Basic Resin for Hydrogen Production from Formic Acid. Chemistry - A European Journal, 2015, 21, 12085-12092. | 1.7 | 102 |
| 35 | Synthesis of Ce ions doped metalâ€“organic framework for promoting catalytic H<sub>2</sub> production from ammonia borane under visible light irradiation. Journal of Materials Chemistry A, 2015, 3, 14134-14141. | 5.2 | 102 |
| 36 | TiO2 photocatalyst for degradation of organic compounds in water and air supported on highly hydrophobic FAU zeolite: Structural, sorptive, and photocatalytic studies. Journal of Catalysis, 2012, 285, 223-234. | 3.1 | 101 |

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| 37 | 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 |
| 38 | Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation Agent and Its Application as an Advantageous Host Material for the TiO<sub>2</sub> Photocatalyst. Journal of Physical Chemistry C, 2009, 113, 1552-1559. | 1.5 | 96 |
| 39 | Enhanced Catalytic Activity on Titanosilicate Molecular Sieves Controlled by Cationâ˜'Ï€ Interactions. Journal of the American Chemical Society, 2011, 133, 12462-12465. | 6.6 | 96 |
| 40 | 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 |
| 41 | High-surface-area plasmonic MoO<sub>3â˜'x</sub>: rational synthesis and enhanced ammonia borane dehydrogenation activity. Journal of Materials Chemistry A, 2017, 5, 8946-8953. | 5.2 | 94 |
| 42 | New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. Frontiers in Materials, 2019, 6, . | 1.2 | 93 |
| 43 | A single-site hydroxyapatite-bound zinc catalyst for highly efficient chemical fixation of carbon dioxide with epoxides. Chemical Communications, 2005, , 3331. | 2.2 | 92 |
| 44 | 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 |
| 45 | Synthesis and characterization of FePd magnetic nanoparticles modified with chiral BINAP ligand as a recoverable catalyst vehicle for the asymmetric coupling reaction. Physical Chemistry Chemical Physics, 2009, 11, 8949. | 1.3 | 88 |
| 46 | Non-Noble-Metal Nanoparticle Supported on Metalâ€"Organic Framework as an Efficient and Durable Catalyst for Promoting H<sub>2</sub> Production from Ammonia Borane under Visible Light Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 21278-21284. | 4.0 | 88 |
| 47 | 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 |
| 48 | Catalytically active, magnetically separable, and water-soluble FePt nanoparticles modified with cyclodextrin for aqueous hydrogenation reactions. Green Chemistry, 2009, 11, 1337. | 4.6 | 83 |
| 49 | Synthesis of Tris(2,2â€˜-bipyridine)iron(II) Complexes in Zeolite Y Cages:â€‰ Influence of Exchanged Alkali Metal Cations on Physicochemical Properties and Catalytic Activity. Journal of Physical Chemistry C, 2008, 112, 2593-2600. | 1.5 | 81 |
| 50 | 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 |
| 51 | 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 |
| 52 | A pH-Induced Size Controlled Deposition of Colloidal Ag Nanoparticles on Alumina Support for Catalytic Application. Journal of Physical Chemistry C, 2009, 113, 16850-16854. | 1.5 | 77 |
| 53 | Enhanced hydrogen production from ammonia borane using controlled plasmonic performance ofÂAu nanoparticles deposited on TiO<sub>2</sub>. Journal of Materials Chemistry A, 2017, 5, 21883-21892. | 5.2 | 75 |
| 54 | 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 |

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| 55 | Colorâ€Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwaveâ€Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visibleâ€Light Irradiation. Chemistry - A European Journal, 2015, 21, 11885-11893. | 1.7 | 69 |
| 56 | 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 |
| 57 | Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO2 photocatalysts. Chemical Communications, 2008, , 4783. | 2.2 | 63 |
| 58 | New Route for the Preparation of Pd and PdAu Nanoparticles Using Photoexcited Ti-Containing Zeolite as an Efficient Support Material and Investigation of Their Catalytic Properties. Langmuir, 2009, 25, 11180-11187. | 1.6 | 63 |
| 59 | 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 |
| 60 | 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 |
| 61 | Progress in design and architecture of metal nanoparticles for catalytic applications. Physical Chemistry Chemical Physics, 2010, 12, 14420. | 1.3 | 61 |
| 62 | 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 |
| 63 | Evolution of the PVPâ€“Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. Langmuir, 2016, 32, 12110-12118. | 1.6 | 61 |
| 64 | 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 |
| 65 | Highly efficient dehalogenation using hydroxyapatite-supported palladium nanocluster catalyst with molecular hydrogen. Green Chemistry, 2004, 6, 507. | 4.6 | 60 |
| 66 | Visible-light-enhanced Suzukiâ€“Miyaura coupling reaction by cooperative photocatalysis with an Ruâ€“Pd bimetallic complex. Chemical Communications, 2014, 50, 14501-14503. | 2.2 | 60 |
| 67 | Synthesis and Multifunctional Properties of Superparamagnetic Iron Oxide Nanoparticles Coated with Mesoporous Silica Involving Single-Site Tiâ^'Oxide Moiety. Journal of Physical Chemistry C, 2008, 112, 397-404. | 1.5 | 57 |
| 68 | Palladium Nanoparticles Supported on Titaniumâ€Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. Chemistry - an Asian Journal, 2017, 12, 860-867. | 1.7 | 57 |
| 69 | Controlled release of hydrogen isotope compounds and tunneling effect in the heterogeneously-catalyzed formic acid dehydrogenation. Nature Communications, 2019, 10, 4094. | 5.8 | 56 |
| 70 | A novel synthetic route to hydroxyapatiteâ€“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 |
| 71 | Photoinduced Aerobic Oxidation Driven by Phosphorescence Ir(III) Complex Anchored to Mesoporous Silica. Journal of Physical Chemistry C, 2011, 115, 21358-21362. | 1.5 | 54 |
| 72 | Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. Chemical Communications, 2019, 55, 6743-6746. | 2.2 | 54 |

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| 73 | 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 |
| 74 | Overcoming Acidic H<sub>2</sub>O<sub>2</sub>/Fe(II/III) Redox-Induced Low H<sub>2</sub>O<sub>2</sub> Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis. Environmental Science & Technology, 2022, 56, 2617-2625. | 4.6 | 54 |
| 75 | Enhancement of Pd-catalyzed Suzukiâ€“Miyaura coupling reaction assisted by localized surface plasmon resonance of Au nanorods. Catalysis Today, 2015, 242, 381-385. | 2.2 | 53 |
| 76 | 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 |
| 77 | Creation of monomeric La complexes on apatite surfaces and their application as heterogeneous catalysts for Michael reactions. New Journal of Chemistry, 2006, 30, 44-52. | 1.4 | 52 |
| 78 | Applications of Single-site Photocatalysts to the Design of Unique Surface Functional Materials. Catalysis Surveys From Asia, 2008, 12, 88-100. | 1.0 | 52 |
| 79 | Silver Nanoparticles Supported on CeO<sub>2</sub>â€SBAâ€15 by Microwave Irradiation Possess Metalâ€“Support Interactions and Enhanced Catalytic Activity. Chemistry - A European Journal, 2014, 20, 15746-15752. | 1.7 | 52 |
| 80 | 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 |
| 81 | Recent Progress on Black Phosphorusâ€Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212. | 4.6 | 50 |
| 82 | Design of Singleâ€Site Photocatalysts by Using Metalâ€“Organic Frameworks as a Matrix. Chemistry - an Asian Journal, 2018, 13, 1767-1779. | 1.7 | 49 |
| 83 | TiO2 photocatalyst loaded on hydrophobic Si3N4 support for efficient degradation of organics diluted in water. Applied Catalysis A: General, 2008, 350, 164-168. | 2.2 | 48 |
| 84 | Highly Dispersed Platinum Nanoparticles on TiO<sub>2</sub> Prepared by Using the Microwaveâ€Assisted Deposition Method: An Efficient Photocatalyst for the Formation of H<sub>2</sub> and N<sub>2</sub> from Aqueous NH<sub>3</sub>. Chemistry - an Asian Journal, 2012, 7, 1366-1371. | 1.7 | 47 |
| 85 | Plasmonic metal/Mo<sub>x</sub>W<sub>1â^'x</sub>O<sub>3â^'y</sub> for visible-light-enhanced H<sub>2</sub> production from ammonia borane. Journal of Materials Chemistry A, 2018, 6, 10932-10938. | 5.2 | 47 |
| 86 | Catalytic investigations of carbonâ€“carbon bond-forming reactions by a hydroxyapatite-bound palladium complex. New Journal of Chemistry, 2005, 29, 1174. | 1.4 | 46 |
| 87 | 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 |
| 88 | Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO2 photocatalyst. Journal of Materials Science, 2008, 43, 2407-2410. | 1.7 | 44 |
| 89 | Investigation of Size Sensitivity in the Hydrogen Production from Formic Acid over Carbonâ€Supported Pd Nanoparticles. ChemistrySelect, 2016, 1, 1879-1886. | 0.7 | 44 |
| 90 | Some novel porous materials for selective catalytic oxidations. Materials Today, 2020, 32, 244-259. | 8.3 | 44 |

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| 91 | Active Site Design in a Coreâ€“Shell Nanostructured Catalyst for a Oneâ€Pot Oxidation Reaction. Chemistry - A European Journal, 2011, 17, 9047-9051. | 1.7 | 43 |
| 92 | Enhanced hydrogenation activity of nano-sized Pdâ€“Ni bimetal particles on Ti-containing mesoporous silica prepared by a photo-assisted deposition method. Journal of Materials Chemistry, 2012, 22, 16243. | 6.7 | 43 |
| 93 | 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 |
| 94 | Metalâ€“organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. Physical Chemistry Chemical Physics, 2020, 22, 14404-14414. | 1.3 | 43 |
| 95 | Intercalation of Pt(II) Terpyridine Complexes into Layered K<sub>4</sub>Nb<sub>6</sub>O<sub>17</sub> and Visible-Light-Driven Photocatalytic Production of H<sub>2</sub>. Journal of Physical Chemistry C, 2012, 116, 18873-18877. | 1.5 | 42 |
| 96 | Hybrid Mesoporousâ€Silica Materials Functionalized by Pt<sup>II</sup> Complexes: Correlation between the Spatial Distribution of the Active Center, Photoluminescence Emission, and Photocatalytic Activity. Chemistry - A European Journal, 2012, 18, 11371-11378. | 1.7 | 42 |
| 97 | Metal Complexes Supported on Solid Matrices for Visibleâ€Lightâ€Driven Molecular Transformations. Chemistry - A European Journal, 2016, 22, 11122-11137. | 1.7 | 42 |
| 98 | Influence of Exchanged Alkali Metal Cations within Zeolite Y Cages on Spectroscopic and Photooxidation Properties of the Incorporated Tris(2,2â€²-bipyridine)ruthenium(II) Complexes. Journal of Physical Chemistry C, 2008, 112, 19449-19455. | 1.5 | 41 |
| 99 | 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 |
| 100 | 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 |
| 101 | Anchoring of Pt(II) Pyridyl Complex to Mesoporous Silica Materials: Enhanced Photoluminescence Emission at Room Temperature and Photooxidation Activity using Molecular Oxygen. Journal of Physical Chemistry C, 2011, 115, 1044-1050. | 1.5 | 40 |
| 102 | Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. Catalysis Today, 2019, 324, 90-96. | 2.2 | 40 |
| 103 | Preparation of nano-sized platinum metal catalyst using photo-assisted deposition method on mesoporous silica including single-site photocatalyst. Applied Surface Science, 2008, 254, 7604-7607. | 3.1 | 39 |
| 104 | Structural Design of Pd/SiO<sub>2</sub>@Ti-Containing Mesoporous Silica Coreâ€“Shell Catalyst for Efficient One-Pot Oxidation Using in Situ Produced H<sub>2</sub>O<sub>2</sub>. Journal of Physical Chemistry C, 2012, 116, 14360-14367. | 1.5 | 39 |
| 105 | Defect Engineering of MoS<sub>2</sub> and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. Chemistry - an Asian Journal, 2019, 14, 278-285. | 1.7 | 39 |
| 106 | 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 |
| 107 | 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 |
| 108 | Revealing hydrogen spillover pathways in reducible metal oxides. Chemical Science, 2022, 13, 8137-8147. | 3.7 | 39 |

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| 109 | Size-controlled synthesis of silver nanoparticles on Ti-containing mesoporous silica thin film and photoluminescence enhancement of rhodamine 6G dyes by surface plasmon resonance. Journal of Materials Chemistry, 2009, 19, 6745. | 6.7 | 38 |
| 110 | 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 |
| 111 | Synthesis and Characterization of Coreâ^'Shell FePt@Ti-Containing Silica Spherical Nanocomposite as a Catalyst Carrier for Liquid-Phase Reactions. Journal of Physical Chemistry C, 2008, 112, 16478-16483. | 1.5 | 37 |
| 112 | Controlled synthesis of carbon-supported Co catalysts from single-sites to nanoparticles: characterization of the structural transformation and investigation of their oxidation catalysis. Physical Chemistry Chemical Physics, 2017, 19, 4967-4974. | 1.3 | 37 |
| 113 | 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 |
| 114 | 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 |
| 115 | Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid. Industrial & Engineering Chemistry Research, 2016, 55, 7612-7620. | 1.8 | 35 |
| 116 | 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 |
| 117 | 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 |
| 118 | Photoluminescence Emission and Photoinduced Hydrogen Production Driven by Pt<sup>II</sup> Pyridyl Complexes Anchored onto Mesoporous Silica. Chemistry - A European Journal, 2012, 18, 415-418. | 1.7 | 34 |
| 119 | Synthesis of a Feâ€“Ni Alloy on a Ceria Support as a Nobleâ€Metalâ€Free Catalyst for Hydrogen Production from Chemical Hydrogen Storage Materials. ChemCatChem, 2015, 7, 1285-1291. | 1.8 | 33 |
| 120 | Roomâ€Temperature and Aqueousâ€Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for Visibleâ€Lightâ€Enhanced Hydrogen Generation. Chemistry - an Asian Journal, 2016, 11, 2377-2381. | 1.7 | 33 |
| 121 | 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 |
| 122 | Design of hydroxyapatite-bound transition metal catalysts for environmentally-benign organic syntheses. Catalysis Surveys From Asia, 2004, 8, 231-239. | 1.0 | 32 |
| 123 | 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 |
| 124 | Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO2 for aerobic alcohol oxidation. Catalysis Today, 2020, 352, 255-261. | 2.2 | 32 |
| 125 | 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 |
| 126 | An Efficient Cu/BaO/La<sub>2</sub>O<sub>3</sub> Catalyst for the Simultaneous Removal of Carbon Soot and Nitrogen Oxides from Simulated Diesel Exhaust. Journal of Physical Chemistry C, 2014, 118, 9078-9085. | 1.5 | 31 |

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| 127 | 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 |
| 128 | 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 |
| 129 | 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 |
| 130 | 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 |
| 131 | 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 |
| 132 | Oxidation of Benzyl Alcohol over Nanoporous Auâ€“CeO<sub>2</sub> 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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