

Hiromi Yamashita

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363
papers

15,677
citations

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109
g-index

384
ext. papers

17,738
ext. citations

6.3
avg, IF

7.16
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 363 | Photocatalytic Reduction of CO ₂ with H ₂ O on Titanium Oxides Anchored within Micropores of Zeolites: Effects of the Structure of the Active Sites and the Addition of Pt. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2632-2636 | 3.4 | 362 |
| 362 | Pd and PdAg Nanoparticles within a Macroreticular Basic Resin: An Efficient Catalyst for Hydrogen Production from Formic Acid Decomposition. <i>ACS Catalysis</i> , 2013 , 3, 1114-1119 | 13.1 | 295 |
| 361 | Surfactant-free nonaqueous synthesis of plasmonic molybdenum oxide nanosheets with enhanced catalytic activity for hydrogen generation from ammonia borane under visible light. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2910-4 | 16.4 | 289 |
| 360 | Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015 , 86, 17-24 | 12.5 | 261 |
| 359 | Photocatalytic Reduction of CO ₂ with H ₂ O on TiO ₂ /Zeolite Photocatalysts: Effect of the Hydrophobic and Hydrophilic Properties. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8350-8355 | 3.4 | 256 |
| 358 | Photocatalytic reduction of CO ₂ with H ₂ O on various titanium oxide photocatalysts. <i>RSC Advances</i> , 2012 , 2, 3165 | 3.7 | 252 |
| 357 | Superhydrophobic surfaces with photocatalytic self-cleaning properties by nanocomposite coating of TiO ₂ and polytetrafluoroethylene. <i>Advanced Materials</i> , 2012 , 24, 3697-700 | 24 | 242 |
| 356 | Charge Carrier Dynamics of Standard TiO ₂ Catalysts Revealed by Femtosecond Diffuse Reflectance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3120-3127 | 3.4 | 238 |
| 355 | Ru and RuNi Nanoparticles on TiO ₂ Support as Extremely Active Catalysts for Hydrogen Production from Ammonia Borane. <i>ACS Catalysis</i> , 2016 , 6, 3128-3135 | 13.1 | 232 |
| 354 | Selective formation of CH ₃ OH in the photocatalytic reduction of CO ₂ with H ₂ O on titanium oxides highly dispersed within zeolites and mesoporous molecular sieves. <i>Catalysis Today</i> , 1998 , 45, 221-227 | 5.3 | 228 |
| 353 | Preparation of Titanium Oxide Photocatalysts Anchored on Porous Silica Glass by a Metal Ion-Implantation Method and Their Photocatalytic Reactivities for the Degradation of 2-Propanol Diluted in Water. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10707-10711 | 3.4 | 218 |
| 352 | Photocatalytic Decomposition of NO at 275 K on Titanium Oxides Included within Y-Zeolite Cavities: The Structure and Role of the Active Sites. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16041-16044 | | 213 |
| 351 | In-Situ XAFS, Photoluminescence, and IR Investigations of Copper Ions Included within Various Kinds of Zeolites. Structure of Cu(I) Ions and Their Interaction with CO Molecules. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 397-402 | | 210 |
| 350 | The synthesis of size- and color-controlled silver nanoparticles by using microwave heating and their enhanced catalytic activity by localized surface plasmon resonance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7446-50 | 16.4 | 205 |
| 349 | Design of unique titanium oxide photocatalysts by an advanced metal ion-implantation method and photocatalytic reactions under visible light irradiation. <i>Research on Chemical Intermediates</i> , 1998 , 24, 143-149 | 2.8 | 205 |
| 348 | Dramatic enhancement of CO ₂ uptake by poly(ethyleneimine) using zirconosilicate supports. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10757-60 | 16.4 | 183 |
| 347 | Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. <i>Chemical Communications</i> , 2014 , 50, 11645-8 | 5.8 | 168 |

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| 346 | Characterization of TitaniumSilicon Binary Oxide Catalysts Prepared by the SolGel Method and Their Photocatalytic Reactivity for the Liquid-Phase Oxidation of 1-Octanol. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5870-5875 | 3.4 | 167 |
| 345 | Photocatalytic decomposition of NO under visible light irradiation on the Cr-ion-implanted TiO ₂ thin film photocatalyst. <i>Catalysis Letters</i> , 2000 , 67, 135-137 | 2.8 | 165 |
| 344 | Isolated Single-Atomic Ru Catalyst Bound on a Layered Double Hydroxide for Hydrogenation of CO ₂ to Formic Acid. <i>ACS Catalysis</i> , 2017 , 7, 3147-3151 | 13.1 | 160 |
| 343 | Amine-Functionalized MIL-125 with Imbedded Palladium Nanoparticles as an Efficient Catalyst for Dehydrogenation of Formic Acid at Ambient Temperature. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22805-22810 | 3.8 | 160 |
| 342 | Influence of char surface chemistry on the reduction of nitric oxide with chars. <i>Energy & Fuels</i> , 1993 , 7, 85-89 | 4.1 | 152 |
| 341 | MetalOrganic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019 , 6, 1006-1025 | 7.1 | 152 |
| 340 | A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. <i>Advanced Materials</i> , 2015 , 27, 4616-21 | 24 | 151 |
| 339 | Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9316-24 | 16.4 | 151 |
| 338 | Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to Valerolactone over Sulfonic Acid-Functionalized UiO-66. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1141-1152 | 8.3 | 145 |
| 337 | Photocatalytic Degradation of 1-Octanol on Anchored Titanium Oxide and on TiO ₂ Powder Catalysts. <i>Journal of Catalysis</i> , 1996 , 158, 97-101 | 7.3 | 145 |
| 336 | Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 555-569 | 21.8 | 144 |
| 335 | Graphene Coating of TiO ₂ Nanoparticles Loaded on Mesoporous Silica for Enhancement of Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15049-15053 | 3.8 | 139 |
| 334 | Surface Engineering of a Supported PdAg Catalyst for Hydrogenation of CO to Formic Acid: Elucidating the Active Pd Atoms in Alloy Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8902-8909 | 16.4 | 135 |
| 333 | Photocatalytic decomposition of NO at 275 K on titanium oxide catalysts anchored within zeolite cavities and framework. <i>Applied Surface Science</i> , 1997 , 121-122, 305-309 | 6.7 | 135 |
| 332 | Plasmonic Nanoparticles Supported on a Basic MetalOrganic Framework: Synergic Boosting of H ₂ Production from Formic Acid. <i>ACS Energy Letters</i> , 2017 , 2, 1-7 | 20.1 | 133 |
| 331 | Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. <i>Chemical Society Reviews</i> , 2018 , 47, 8072-8096 | 58.5 | 129 |
| 330 | A visible-light-harvesting assembly with a sulfocalixarene linker between dyes and a Pt-TiO ₂ photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 916-9 | 16.4 | 127 |
| 329 | Relationship between the Local Structures of Titanium Oxide Photocatalysts and Their Reactivities in the Decomposition of NO. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8395-8398 | 3.4 | 120 |

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| 328 | Photocatalytic reactions on chromium containing mesoporous silica molecular sieves (Cr-HMS) under visible light irradiation: decomposition of NO and partial oxidation of propane. <i>Chemical Communications</i> , 2001 , 435-436 | 5.8 | 119 |
| 327 | Enhancement of the photoinduced oxidation activity of a ruthenium(II) complex anchored on silica-coated silver nanoparticles by localized surface plasmon resonance. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8598-601 | 16.4 | 118 |
| 326 | Applications of Single-site Photocatalysts Implanted within the Silica Matrixes of Zeolite and Mesoporous Silica. <i>Chemistry Letters</i> , 2007 , 36, 348-353 | 1.7 | 115 |
| 325 | Reaction of nitric oxide with metal-loaded carbon in the presence of oxygen. <i>Applied Catalysis</i> , 1991 , 78, L1-L6 | | 113 |
| 324 | Local structures and photocatalytic reactivities of the titanium oxide and chromium oxide species incorporated within micro- and mesoporous zeolite materials: XAFS and photoluminescence studies. <i>Current Opinion in Solid State and Materials Science</i> , 2003 , 7, 471-481 | 12 | 110 |
| 323 | Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5244-5258 | 13 | 109 |
| 322 | Efficient photocatalytic degradation of organics diluted in water and air using TiO ₂ designed with zeolites and mesoporous silica materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2407-2416 | | 109 |
| 321 | Preparation of hydroxynaphthalene-modified TiO ₂ via formation of surface complexes and their applications in the photocatalytic reduction of nitrobenzene under visible-light irradiation. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6635-9 | 9.5 | 107 |
| 320 | PdAg Nanoparticles Supported on Functionalized Mesoporous Carbon: Promotional Effect of Surface Amine Groups in Reversible Hydrogen Delivery/Storage Mediated by Formic Acid/CO ₂ . <i>ACS Catalysis</i> , 2018 , 8, 2277-2285 | 13.1 | 105 |
| 319 | Enhanced CO ₂ 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> , 2012 , 18, 16649-64 | 4.8 | 100 |
| 318 | 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> , 2010 , 20, 5052 | | 98 |
| 317 | Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to γ -valerolactone over ZrO ₂ catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , 2017 , 281, 418-428 | 5.3 | 95 |
| 316 | Design and functionalization of photocatalytic systems within mesoporous silica. <i>ChemSusChem</i> , 2014 , 7, 1528-36 | 8.3 | 89 |
| 315 | Synergic Catalysis of PdCu Alloy Nanoparticles within a Macroreticular Basic Resin for Hydrogen Production from Formic Acid. <i>Chemistry - A European Journal</i> , 2015 , 21, 12085-92 | 4.8 | 88 |
| 314 | Mechanism of Photooxidation of Alcohol over Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18713-18718 | 3.8 | 88 |
| 313 | TiO ₂ 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> , 2012 , 285, 223-234 | 7.3 | 87 |
| 312 | Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation Agent and Its Application as an Advantageous Host Material for the TiO ₂ Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1552-1559 | 3.8 | 87 |
| 311 | In situ XAFS Studies on the Effects of the Hydrophobic/Hydrophilic Properties of Ti-Beta Zeolites in the Photocatalytic Reduction of CO ₂ with H ₂ O. <i>Topics in Catalysis</i> , 2002 , 18, 95-100 | 2.3 | 87 |

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|-----|---|------|----|
| 310 | Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5402-5406 | 16.4 | 86 |
| 309 | Enhanced catalytic activity on titanosilicate molecular sieves controlled by cation- π interactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12462-5 | 16.4 | 84 |
| 308 | Synthesis of Ce ions doped metal-organic framework for promoting catalytic H ₂ production from ammonia borane under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14134-14141 | 13 | 83 |
| 307 | Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020 , 12, 11333-11363 | 7.7 | 79 |
| 306 | Synthesis and characterization of FePd magnetic nanoparticles modified with chiral BINAP ligand as a recoverable catalyst vehicle for the asymmetric coupling reaction. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8949-54 | 3.6 | 78 |
| 305 | Catalytically active, magnetically separable, and water-soluble FePt nanoparticles modified with cyclodextrin for aqueous hydrogenation reactions. <i>Green Chemistry</i> , 2009 , 11, 1337 | 10 | 78 |
| 304 | 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> , 2018 , 223, 10-15 | 21.8 | 77 |
| 303 | Phenylamine-functionalized mesoporous silica supported PdAg nanoparticles: a dual heterogeneous catalyst for formic acid/CO-mediated chemical hydrogen delivery/storage. <i>Chemical Communications</i> , 2017 , 53, 4677-4680 | 5.8 | 76 |
| 302 | 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> , 2016 , 4, 10142-10150 | 13 | 76 |
| 301 | Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. <i>NPG Asia Materials</i> , 2018 , 10, 277-292 | 10.3 | 75 |
| 300 | 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> , 2015 , 3, 18889-18897 | 13 | 74 |
| 299 | Synthesis of Tris(2,2'-bipyridine)iron(II) Complexes in Zeolite Y Cages: Influence of Exchanged Alkali Metal Cations on Physicochemical Properties and Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2593-2600 | 3.8 | 74 |
| 298 | A pH-Induced Size Controlled Deposition of Colloidal Ag Nanoparticles on Alumina Support for Catalytic Application. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16850-16854 | 3.8 | 71 |
| 297 | High-surface-area plasmonic MoO ₃ : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8946-8953 | 13 | 69 |
| 296 | Non-Noble-Metal Nanoparticle Supported on Metal-Organic Framework as an Efficient and Durable Catalyst for Promoting H ₂ Production from Ammonia Borane under Visible Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21278-84 | 9.5 | 69 |
| 295 | Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt-Pd Alloy Cocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20667-74 | 9.5 | 68 |
| 294 | The Local Structures of Silver(I) Ion Catalysts Anchored within Zeolite Cavities and Their Photocatalytic Reactivities for the Elimination of N ₂ O into N ₂ and O ₂ . <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2128-2133 | 3.4 | 66 |
| 293 | Pd Nanoparticles and Aminopolymers Confined in Hollow Silica Spheres as Efficient and Reusable Heterogeneous Catalysts for Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , 2019 , 9, 1993-2006 | 13.1 | 65 |

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| 292 | 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> , 2014 , 237, 18-28 | 5.3 | 65 |
| 291 | Color-Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwave-Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visible-Light Irradiation. <i>Chemistry - A European Journal</i> , 2015 , 21, 11885-93 | 4.8 | 63 |
| 290 | Design of macroporous TiO ₂ thin film photocatalysts with enhanced photofunctional properties. <i>Energy and Environmental Science</i> , 2011 , 4, 1411 | 35.4 | 62 |
| 289 | Enhanced photocatalytic properties of TiO ₂ -loaded porous silica with hierarchical macroporous and mesoporous architectures in water purification. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2323-2330 | 13 | 61 |
| 288 | Mild Deoxygenation of Sulfoxides over Plasmonic Molybdenum Oxide Hybrid with Dramatic Activity Enhancement under Visible Light. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9203-9210 | 16.4 | 61 |
| 287 | Characterization of Vanadium Oxide/ZSM-5 Zeolite Catalysts Prepared by the Solid-State Reaction and Their Photocatalytic Reactivity: In Situ Photoluminescence, XAFS, ESR, FT-IR, and UV-Vis Investigations. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5590-5594 | 3.4 | 61 |
| 286 | 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. <i>Langmuir</i> , 2009 , 25, 11180-7 | 4 | 60 |
| 285 | A new catalytic opportunity for waste materials: Application of waste slag based catalyst in CO ₂ fixation reaction. <i>Journal of CO₂ Utilization</i> , 2013 , 1, 50-59 | 7.6 | 59 |
| 284 | Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO ₂ photocatalysts. <i>Chemical Communications</i> , 2008 , 4783-5 | 5.8 | 58 |
| 283 | Application of an Ion Beam Technique for the Design of Visible Light-Sensitive, Highly Efficient and Highly Selective Photocatalysts: Ion-Implantation and Ionized Cluster Beam Methods. <i>Catalysis Surveys From Asia</i> , 2004 , 8, 35-45 | 2.8 | 58 |
| 282 | Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for Visible-Light-Enhanced Catalytic Reaction. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23531-23540 | 3.8 | 57 |
| 281 | 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> , 2013 , 1, 7199 | 13 | 57 |
| 280 | Design of TiO ₂ -zeolite composites with enhanced photocatalytic performances under irradiation of UV and visible light. <i>Microporous and Mesoporous Materials</i> , 2013 , 165, 142-147 | 5.3 | 56 |
| 279 | Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. <i>Catalysis Science and Technology</i> , 2012 , 2, 1842 | 5.5 | 55 |
| 278 | Synthesis and Multifunctional Properties of Superparamagnetic Iron Oxide Nanoparticles Coated with Mesoporous Silica Involving Single-Site TiO ₂ Moiety. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 397-404 | 3.8 | 55 |
| 277 | 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> , 2018 , 24, 898-905 | 4.8 | 54 |
| 276 | Surfactant-Free Nonaqueous Synthesis of Plasmonic Molybdenum Oxide Nanosheets with Enhanced Catalytic Activity for Hydrogen Generation from Ammonia Borane under Visible Light. <i>Angewandte Chemie</i> , 2014 , 126, 2954-2958 | 3.6 | 53 |
| 275 | New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. <i>Frontiers in Materials</i> , 2019 , 6, | 4 | 52 |

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| 274 | Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21883-21892 | 13 | 52 |
| 273 | Progress in design and architecture of metal nanoparticles for catalytic applications. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14420-32 | 3.6 | 52 |
| 272 | Applications of Single-site Photocatalysts to the Design of Unique Surface Functional Materials. <i>Catalysis Surveys From Asia</i> , 2008 , 12, 88-100 | 2.8 | 51 |
| 271 | 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> , 2016 , 527, 45-52 | 5.1 | 50 |
| 270 | Direct observation of interfacial hole transfer from a photoexcited TiO ₂ particle to an adsorbed molecule SCN ⁻ by femtosecond diffuse reflectance spectroscopy. <i>Research on Chemical Intermediates</i> , 2001 , 27, 177-187 | 2.8 | 49 |
| 269 | Photoinduced Aerobic Oxidation Driven by Phosphorescence Ir(III) Complex Anchored to Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21358-21362 | 3.8 | 48 |
| 268 | Synthesis and unique catalytic performance of single-site Ti-containing hierarchical macroporous silica with mesoporous frameworks. <i>Langmuir</i> , 2011 , 27, 2873-9 | 4 | 48 |
| 267 | Synthesis, characterization and photocatalytic reactivities of Mo-MCM-41 mesoporous molecular sieves: Effect of the Mo content on the local structures of Mo-oxides. <i>Journal of Catalysis</i> , 2005 , 235, 272-278 | 7.3 | 48 |
| 266 | 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> , 2017 , 23, 3616-3622 | 4.8 | 47 |
| 265 | Characterization of the Local Structure of the Vanadium Silicalite (VS-2) Catalyst and Its Photocatalytic Reactivity for the Decomposition of NO into N ₂ and O ₂ . <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9295-9301 | 3.4 | 47 |
| 264 | Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into γ -valerolactone at ambient conditions. <i>Catalysis Today</i> , 2015 , 258, 262-269 | 5.3 | 46 |
| 263 | Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , 2016 , 32, 12110-12118 | 4 | 46 |
| 262 | Surface plasmon resonance enhancement of production of H ₂ from ammonia borane solution with tunable Cu ₂ S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017 , 31, 57-63 | 17.1 | 45 |
| 261 | Highly dispersed platinum nanoparticles on TiO ₂ prepared by using the microwave-assisted deposition method: an efficient photocatalyst for the formation of H ₂ and N ₂ from aqueous NH ₃ . <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1366-71 | 4.5 | 45 |
| 260 | A novel synthetic route to hydroxyapatite/zeolite composite material from steel slag: investigation of synthesis mechanism and evaluation of physicochemical properties. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7263 | | 45 |
| 259 | TiO ₂ photocatalyst loaded on hydrophobic Si ₃ N ₄ support for efficient degradation of organics diluted in water. <i>Applied Catalysis A: General</i> , 2008 , 350, 164-168 | 5.1 | 44 |
| 258 | 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> , 2018 , 54, 9270-9273 | 5.8 | 44 |
| 257 | Palladium Nanoparticles Supported on Titanium-Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 860-867 | 4.5 | 43 |

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| 256 | Silver nanoparticles supported on CeO ₂ -SBA-15 by microwave irradiation possess metal-support interactions and enhanced catalytic activity. <i>Chemistry - A European Journal</i> , 2014 , 20, 15746-52 | 4.8 | 43 |
| 255 | Enhanced hydrogenation activity of nano-sized PdNi bimetal particles on Ti-containing mesoporous silica prepared by a photo-assisted deposition method. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16243 | | 42 |
| 254 | The Synthesis of Size- and Color-Controlled Silver Nanoparticles by Using Microwave Heating and their Enhanced Catalytic Activity by Localized Surface Plasmon Resonance. <i>Angewandte Chemie</i> , 2013 , 125, 7594-7598 | 3.6 | 42 |
| 253 | Active site design in a core-shell nanostructured catalyst for a one-pot oxidation reaction. <i>Chemistry - A European Journal</i> , 2011 , 17, 9047-51 | 4.8 | 42 |
| 252 | Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. <i>Applied Catalysis A: General</i> , 2019 , 571, 25-41 | 5.1 | 41 |
| 251 | Enhancement of Pd-catalyzed SuzukiMiyaura coupling reaction assisted by localized surface plasmon resonance of Au nanorods. <i>Catalysis Today</i> , 2015 , 242, 381-385 | 5.3 | 40 |
| 250 | Intercalation of Pt(II) Terpyridine Complexes into Layered K ₄ Nb ₆ O ₁₇ and Visible-Light-Driven Photocatalytic Production of H ₂ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18873-18877 | 3.8 | 40 |
| 249 | Palladium Copper Chromium Ternary Nanoparticles Constructed In situ within a Basic Resin: Enhanced Activity in the Dehydrogenation of Formic Acid. <i>ChemCatChem</i> , 2017 , 9, 3456-3462 | 5.2 | 39 |
| 248 | Synthesis of highly visible light active TiO ₂ -2-naphthol surface complex and its application in photocatalytic chromium(VI) reduction. <i>RSC Advances</i> , 2015 , 5, 39752-39759 | 3.7 | 39 |
| 247 | Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO ₂ photocatalyst. <i>Journal of Materials Science</i> , 2008 , 43, 2407-2410 | 4.3 | 39 |
| 246 | Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1767 | 4.5 | 38 |
| 245 | Size-controlled synthesis of silver nanoparticles on Ti-containing mesoporous silica thin film and photoluminescence enhancement of rhodamine 6G dyes by surface plasmon resonance. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6745 | | 38 |
| 244 | Lipase-embedded silica nanoparticles with oil-filled core-shell structure: stable and recyclable platforms for biocatalysts. <i>Chemical Communications</i> , 2012 , 48, 2882-4 | 5.8 | 37 |
| 243 | Anchoring of Pt(II) Pyridyl Complex to Mesoporous Silica Materials: Enhanced Photoluminescence Emission at Room Temperature and Photooxidation Activity using Molecular Oxygen. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1044-1050 | 3.8 | 37 |
| 242 | Influence of Exchanged Alkali Metal Cations within Zeolite Y Cages on Spectroscopic and Photooxidation Properties of the Incorporated Tris(2,2'-bipyridine)ruthenium(II) Complexes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19449-19455 | 3.8 | 37 |
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