Kohsuke Mori

List of Publications by Citations

266 papers	11,039 citations	54 h-index	93 g-index
281 ext. papers	12,622 ext. citations	6.5 avg, IF	6.86 L-index

#	Paper	IF	Citations
266	Hydroxyapatite-supported palladium nanoclusters: a highly active heterogeneous catalyst for selective oxidation of alcohols by use of molecular oxygen. *Journal of the American Chemical Society* , **2004**, 126, 10657-66	16.4	830
265	Controlled synthesis of hydroxyapatite-supported palladium complexes as highly efficient heterogeneous catalysts. *Journal of the American Chemical Society*, **2002**, 124, 11572-3	16.4	343
264	Pd and PdAg Nanoparticles within a Macroreticular Basic Resin: An Efficient Catalyst for Hydrogen Production from Formic Acid Decomposition. *ACS Catalysis*, **2013**, 3, 1114-1119	13.1	295
263	Surfactant-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, 2910-4	16.4	289
262	Photocatalytic reduction of CO2 with H2O on various titanium oxide photocatalysts. *RSC Advances*, **2012**, 2, 3165	3.7	252
261	Ru and RuNi Nanoparticles on TiO2 Support as Extremely Active Catalysts for Hydrogen Production from AmmoniaBorane. *ACS Catalysis*, **2016**, 6, 3128-3135	13.1	232
260	The synthesis of size- and color-controlled silver nanoparticles by using microwave heating and their enhanced catalytic activity by localized surface plasmon resonance. *Angewandte Chemie - International Edition*, **2013**, 52, 7446-50	16.4	205
259	Catalysis of a hydroxyapatite-bound Ru complex:efficient heterogeneous oxidation of primary amines to nitriles in thepresence of molecular oxygen. *Chemical Communications*, **2001**, 461-462	5.8	199
258	Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. *Chemical Communications*, **2014**, 50, 11645-8	5.8	168
257	Isolated Single-Atomic Ru Catalyst Bound on a Layered Double Hydroxide for Hydrogenation of CO2 to Formic Acid. *ACS Catalysis*, **2017**, 7, 3147-3151	13.1	160
256	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	3.8	160
255	A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. *Advanced Materials*, **2015**, 27, 4616-21	24	151
254	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. *Journal of the American Chemical Society*, **2016**, 138, 9316-24	16.4	151
253	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. *Applied Catalysis B: Environmental*, **2017**, 218, 555-569	21.8	144
252	Surface Engineering of a Supported PdAg Catalyst for Hydrogenation of CO to Formic Acid: Elucidating the Active Pd Atoms in Alloy Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 8902-8909	16.4	135
251	Plasmonic Nanoparticles Supported on a Basic MetalOrganic Framework: Synergic Boosting of H2 Production from Formic Acid. *ACS Energy Letters*, **2017**, 2, 1-7	20.1	133
250	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. *Chemical Society Reviews*, **2018**, 47, 8072-8096	58.5	129

249	Development of Ruthenium–Hydroxyapatite-Encapsulated Superparamagnetic γ-Fe2O3 Nanocrystallites as an Efficient Oxidation Catalyst by Molecular Oxygen. *Chemistry of Materials*, **2007**, 19, 1249-1256	9.6	128
248	Design of High-Performance Heterogeneous Metal Catalysts for Green and Sustainable Chemistry. *Bulletin of the Chemical Society of Japan*, **2006**, 79, 981-1016	5.1	125
247	Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated γ-Fe2O3 nanocrystallites for highly efficient dehalogenation with molecular hydrogen. *Green Chemistry*, **2007**, 9, 1246	10	119
246	Enhancement of the photoinduced oxidation activity of a ruthenium(II) complex anchored on silica-coated silver nanoparticles by localized surface plasmon resonance. *Angewandte Chemie - International Edition*, **2010**, 49, 8598-601	16.4	118
245	Applications of Single-site Photocatalysts Implanted within the Silica Matrixes of Zeolite and Mesoporous Silica. *Chemistry Letters*, **2007**, 36, 348-353	1.7	115
244	Hydroxyapatite-bound cationic ruthenium complexes as novel heterogeneous lewis acid catalysts for Diels-Alder and aldol reactions. *Journal of the American Chemical Society*, **2003**, 125, 11460-1	16.4	115
243	Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. *Journal of Materials Chemistry A*, **2015**, 3, 5244-5258	13	109
242	PdAg Nanoparticles Supported on Functionalized Mesoporous Carbon: Promotional Effect of Surface Amine Groups in Reversible Hydrogen Delivery/Storage Mediated by Formic Acid/CO2. *ACS Catalysis*, **2018**, 8, 2277-2285	13.1	105
241	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		98
240	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	3.6	97
239	Design and functionalization of photocatalytic systems within mesoporous silica. *ChemSusChem*, **2014**, 7, 1528-36	8.3	89
238	Synergic Catalysis of PdCu Alloy Nanoparticles within a Macroreticular Basic Resin for Hydrogen Production from Formic Acid. *Chemistry - A European Journal*, **2015**, 21, 12085-92	4.8	88
237	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	7.3	87
236	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. *Journal of Physical Chemistry C*, **2009**, 113, 1552-1559	3.8	87
235	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. *Angewandte Chemie - International Edition*, **2019**, 58, 5402-5406	16.4	86
234	Enhanced catalytic activity on titanosilicate molecular sieves controlled by cation-π interactions. *Journal of the American Chemical Society*, **2011**, 133, 12462-5	16.4	84
233	Synthesis of Ce ions doped metal–organic framework for promoting catalytic H2 production from ammonia borane under visible light irradiation. *Journal of Materials Chemistry A*, **2015**, 3, 14134-14141	13	83
232	A single-site hydroxyapatite-bound zinc catalyst for highly efficient chemical fixation of carbon dioxide with epoxides. *Chemical Communications*, **2005**, 3331-3	5.8	81

231	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. *Nanoscale*, **2020**, 12, 11333-11363	7.7	79
230	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, 8949-54	3.6	78
229	Catalytically active, magnetically separable, and water-soluble FePt nanoparticles modified with cyclodextrin for aqueous hydrogenation reactions. *Green Chemistry*, **2009**, 11, 1337	10	78
228	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	21.8	77
227	Phenylamine-functionalized mesoporous silica supported PdAg nanoparticles: a dual heterogeneous catalyst for formic acid/CO-mediated chemical hydrogen delivery/storage. *Chemical Communications*, **2017**, 53, 4677-4680	5.8	76
226	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	13	76
225	Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. *NPG Asia Materials*, **2018**, 10, 277-292	10.3	75
224	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	13	74
223	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. *Journal of Physical Chemistry C*, **2008**, 112, 2593-2600	3.8	74
222	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	3.8	71
221	High-surface-area plasmonic MoO3□: rational synthesis and enhanced ammonia borane dehydrogenation activity. *Journal of Materials Chemistry A*, **2017**, 5, 8946-8953	13	69
220	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. *ACS Applied Materials & Interfaces*, **2016**, 8, 21278-84	9.5	69
219	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. *Angewandte Chemie*, **2006**, 118, 495-499	3.6	65
218	Color-Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwave-Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visible-Light Irradiation. *Chemistry - A European Journal*, **2015**, 21, 11885-93	4.8	63
217	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, 11180-7	4	60
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214	Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. *Catalysis Science and Technology*, **2012**, 2, 1842	5.5	55

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210	Highly efficient dehalogenation using hydroxyapatite-supported palladium nanocluster catalyst with molecular hydrogen. *Green Chemistry*, **2004**, 6, 507	10	53
209	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. *Frontiers in Materials*, **2019**, 6,	4	52
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206	Applications of Single-site Photocatalysts to the Design of Unique Surface Functional Materials. *Catalysis Surveys From Asia*, **2008**, 12, 88-100	2.8	51
205	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	5.1	50
204	Visible-light-enhanced Suzuki-Miyaura coupling reaction by cooperative photocatalysis with an Ru-Pd bimetallic complex. *Chemical Communications*, **2014**, 50, 14501-3	5.8	49
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201	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. *Langmuir*, **2016**, 32, 12110-12118	4	46
200	Surface plasmon resonance enhancement of production of H2 from ammonia borane solution with tunable Cu2 S nanowires decorated by Pd nanoparticles. *Nano Energy*, **2017**, 31, 57-63	17.1	45
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197	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	3.6	45
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190	Active site design in a core-shell nanostructured catalyst for a one-pot oxidation reaction. *Chemistry - A European Journal*, **2011**, 17, 9047-51	4.8	42
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187	Intercalation of Pt(II) Terpyridine Complexes into Layered K4Nb6O17 and Visible-Light-Driven Photocatalytic Production of H2. *Journal of Physical Chemistry C*, **2012**, 116, 18873-18877	3.8	40
186	Palladium Copper Chromium Ternary Nanoparticles Constructed In situ within a Basic Resin: Enhanced Activity in the Dehydrogenation of Formic Acid. *ChemCatChem*, **2017**, 9, 3456-3462	5.2	39
185	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	4.3	39
184	Catalytic investigations of carbon–carbon bond-forming reactions by a hydroxyapatite-bound palladium complex. *New Journal of Chemistry*, **2005**, 29, 1174	3.6	39
183	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. *Chemistry - an Asian Journal*, **2018**, 13, 1767	4.5	38
182	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		38
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180	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. *Journal of Physical Chemistry C*, **2008**, 112, 19449-19455	3.8	37
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177	Synthesis and Characterization of Core□Shell [email□protected] Silica Spherical Nanocomposite as a Catalyst Carrier for Liquid-Phase Reactions. *Journal of Physical Chemistry C*, **2008**, 112, 16478-16483	3.8	36
176	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	13	35
175	Structural Design of Pd/SiO2@Ti-Containing Mesoporous Silica Core□Shell Catalyst for Efficient One-Pot Oxidation Using in Situ Produced H2O2. *Journal of Physical Chemistry C*, **2012**, 116, 14360-14367	3.8	34
174	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	6.7	34
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171	Photoluminescence emission and photoinduced hydrogen production driven by Pt(II) pyridyl complexes anchored onto mesoporous silica. *Chemistry - A European Journal*, **2012**, 18, 415-8	4.8	33
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169	Metal Complexes Supported on Solid Matrices for Visible-Light-Driven Molecular Transformations. *Chemistry - A European Journal*, **2016**, 22, 11122-37	4.8	31
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167	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	3.6	30
166	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	5.5	29
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164	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	5.3	29
163	Design of hydroxyapatite-bound transition metal catalysts for environmentally-benign organic syntheses. *Catalysis Surveys From Asia*, **2004**, 8, 231-239	2.8	29
162	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	3.7	28
161	Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H2 production. *Nanoscale*, **2016**, 8, 7749-54	7.7	28
160	An Efficient Cu/BaO/La2O3 Catalyst for the Simultaneous Removal of Carbon Soot and Nitrogen Oxides from Simulated Diesel Exhaust. *Journal of Physical Chemistry C*, **2014**, 118, 9078-9085	3.8	28

159	In Situ Generation of Active Pd Nanoparticles within a Macroreticular Acidic Resin: Efficient Catalyst for the Direct Synthesis of Hydrogen Peroxide. *Journal of Physical Chemistry Letters*, **2010**, 1, 1675-1678	6.4	28
158	Synthesis of a Fe□Ni Alloy on a Ceria Support as a Noble-Metal-Free Catalyst for Hydrogen Production from Chemical Hydrogen Storage Materials. *ChemCatChem*, **2015**, 7, 1285-1291	5.2	27
157	Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid. *Industrial & Engineering Chemistry Research*, **2016**, 55, 7612-7620	3.9	27
156	Br□sted Acid Mediated Heterogeneous Addition Reaction of 1,3-Dicarbonyl Compounds to Alkenes and Alcohols. *Angewandte Chemie*, **2006**, 118, 2667-2671	3.6	27
155	Controlled release of hydrogen isotope compounds and tunneling effect in the heterogeneously-catalyzed formic acid dehydrogenation. *Nature Communications*, **2019**, 10, 4094	17.4	26
154	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	4.9	26
153	Incorporation of a Ru complex into an amine-functionalized metal□organic framework for enhanced activity in photocatalytic aerobic benzyl alcohol oxidation. *Catalysis Science and Technology*, **2019**, 9, 1511-1517	5.5	26
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150	Nickel-supported carbon nitride photocatalyst combined with organic dye for visible-light-driven hydrogen evolution from water. *Physical Chemistry Chemical Physics*, **2015**, 17, 24086-91	3.6	25
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148	Visible-Light-Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a Zirconium Phosphate Layered Matrix. *ChemCatChem*, **2015**, 7, 3519-3525	5.2	25
147	PdAg nanoparticles supported on resorcinol-formaldehyde polymers containing amine groups: the promotional effect of phenylamine moieties on CO2 transformation to formic acid. *Journal of Materials Chemistry A*, **2019**, 7, 16356-16363	13	24
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143	Supported Pd and PdAu Nanoparticles on Ti-MCM-41 Prepared by a Photo-assisted Deposition Method as Efficient Catalysts for Direct Synthesis of H2O2 from H2 and O2. *Catalysis Letters*, **2009**, 131, 337-343	2.8	24
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139	A Multifunctional Heterogeneous Catalyst: Titanium-containing Mesoporous Silica Material Encapsulating Magnetic Iron Oxide Nanoparticles. *Chemistry Letters*, **2007**, 36, 1068-1069	1.7	23
138	CoO-decorated CeO heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. *Nanoscale*, **2020**, 12, 1779-1789	7.7	23
137	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO2 to formate. *Applied Catalysis B: Environmental*, **2021**, 283, 119628	21.8	23
136	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	5.5	22
135	Creation of Nickel-Based Active Species within a Macroreticular Acidic Resin: A Noble-Metal-Free Heterogeneous Catalyst for Visible-Light-Driven H2 Evolution from Water. *ACS Catalysis*, **2014**, 4, 4129-4135	13.1	22
134	Activity, Recyclability, and Stability of Lipases Immobilized on Oil-Filled Spherical Silica Nanoparticles with Different Silica Shell Structures. *ChemCatChem*, **2013**, 5, 2527-2536	5.2	22
133	Size Effect of Carbon-Supported Pd Nanoparticles in the Hydrogen Production from Formic Acid. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 1500-1502	5.1	21
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130	Preparation of Superhydrophilic Mesoporous Silica Thin Films Containing Single-site Photocatalyst (Ti, V, Cr, Mo, and W oxide moieties). *Chemistry Letters*, **2008**, 37, 748-749	1.7	21
129	Investigation of local structures and photo-induced surface properties on transparent Me(Ti,Cr)-containing mesoporous silica thin films. *Microporous and Mesoporous Materials*, **2007**, 101, 288-295	5.3	21
128	Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 19-29	5.1	21
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