

Hiromi Yamashita

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

363
papers

15,677
citations

68
h-index

109
g-index

384
ext. papers

17,738
ext. citations

6.3
avg, IF

7.16
L-index

#	Paper	IF	Citations
363	Overcoming Acidic HO/Fe(II/III) Redox-Induced Low HO Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	7
362	New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. <i>EnergyChem</i> , 2022 , 4, 100070	36.9	3
361	New insight on electroreduction of nitrate to ammonia driven by oxygen vacancies-induced strong interface interactions. <i>Journal of Catalysis</i> , 2022 , 406, 39-47	7.3	4
360	Improvement of acid resistance of Zn-doped dentin by newly generated chemical bonds. <i>Materials and Design</i> , 2022 , 215, 110412	8.1	1
359	Hydrodeoxygenation of Aromatic Ketones under Mild Conditions over Pd-loaded Hydrogen Molybdenum Bronze with Plasmonic Features. <i>Chemistry Letters</i> , 2022 , 51, 166-169	1.7	0
358	Direct Synthesis of a Regenerative CaO@Fe ₃ O ₄ @BiO ₂ Composite Adsorbent from Converter Slag for CO ₂ Capture Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 372-381	8.3	2
357	Visible-light-driven hydrogen peroxide production from water and dioxygen by perylenetetracarboxylic diimide modified titanium-based metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26371-26380	13	5
356	Defect Engineering of Pt/TiO Photocatalysts via Reduction Treatment Assisted by Hydrogen Spillover. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48669-48678	9.5	1
355	Recent strategies for enhancing the catalytic activity of CO ₂ hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO₂ Utilization</i> , 2021 , 54, 101765	7.6	6
354	Photocatalytically-driven H ₂ production over Cu/TiO ₂ catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , 2021 , 364, 182-189	5.3	13
353	Design and Architecture of Nanostructured Heterogeneous Catalysts for CO ₂ Hydrogenation to Formic Acid/Formate 2021 , 179-205		1
352	Enhanced Catalysis of Plasmonic Silver Nanoparticles by a Combination of Macro-/Mesoporous Nanostructured Silica Support. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9150-9157	3.8	2
351	How the Morphology of NiO-Decorated CeO Nanostructures Affects Catalytic Properties in CO Methanation. <i>Langmuir</i> , 2021 , 37, 5376-5384	4	8
350	Modification of Ti-doped Hematite Photoanode with Quasi-molecular Cocatalyst: A Comparison of Improvement Mechanism Between Non-noble and Noble Metals. <i>ChemSusChem</i> , 2021 , 14, 2180-2187	8.3	2
349	PdAg Nanoparticles Supported on an Amine-functionalized MOF as a Photo-switchable Catalyst for Hydrogen Storage/Delivery Mediated by CO ₂ /Formic Acid. <i>Chemistry Letters</i> , 2021 , 50, 607-610	1.7	2
348	Heterometallic and Hydrophobic Metal-Organic Frameworks as Durable Photocatalysts for Boosting Hydrogen Peroxide Production in a Two-Phase System. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4823-4830	6.1	1
347	Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , 2021 , 63, 165-233	12.6	8

346 Earth-Abundant Plasmonic Catalysts **2021**, 231-259

345 Hydrogen spillover-driven synthesis of high-entropy alloy nanoparticles as a robust catalyst for CO hydrogenation. *Nature Communications*, **2021**, 12, 3884 17.4 15

344 Design of Plasmonic Catalysts Utilizing Nanostructures. *Journal of the Japan Petroleum Institute*, **2021**, 64, 155-165 1

343 Promotional effect of surface plasmon resonance on direct formation of hydrogen peroxide from H₂ and O₂ over Pd/Graphene-Au nanorod catalytic system. *Journal of Catalysis*, **2021**, 394, 259-265 7.3 5

342 Catalytic and photocatalytic epoxidation over microporous titanosilicates with nanosheet or layered structure. *Catalysis Today*, **2021**, 376, 28-35 5.3 2

341 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

340 Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. *Materials Advances*, **2021**, 2, 880-906 3.3 6

339 Synthesis of Plasmonic Catalyst with Core-Shell Structure for Visible Light Enhanced Catalytic Performance. *Nanostructure Science and Technology*, **2021**, 233-243 0.9

338 PdAu CoreShell Nanostructures as Visible-Light Responsive Plasmonic Photocatalysts. *Nanostructure Science and Technology*, **2021**, 261-274 0.9 1

337 Design and Synthesis of YolkShell Nanostructured Silica Encapsulating Metal Nanoparticles and Aminopolymers for Selective Hydrogenation Reactions. *Nanostructure Science and Technology*, **2021**, 395-411 0.9

336 A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO hydrogenation to methanol. *Chemical Science*, **2021**, 12, 9902-9915 9.4 8

335 Plasmon-induced catalytic CO₂ hydrogenation by a nano-sheet Pt/HxMoO₃ hybrid with abundant surface oxygen vacancies. *Journal of Materials Chemistry A*, **2021**, 9, 13898-13907 13 14

334 Synthesis of small Ni-coreAu-shell catalytic nanoparticles on TiO₂ by galvanic replacement reaction. *Nanoscale Advances*, **2021**, 3, 823-835 5.1 3

333 PdAu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the Hydrogenation of CO₂ to Formate. *Journal of Physical Chemistry C*, **2021**, 125, 3961-3971 3.8 5

332 Photocatalytic Production of Hydrogen Peroxide Using MOF Materials **2021**, 339-364

331 Hybrid Phase MoS₂ as a Noble Metal-Free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics. *Journal of Physical Chemistry C*, **2021**, 125, 20887-20895 3.8 1

330 Self-assembled core-shell nanocomposite catalysts consisting of single-site Co-coordinated g-C₃N₄ and Au nanorods for plasmon-enhanced CO₂ reduction. *Journal of CO₂ Utilization*, **2021**, 52, 101691 7.6 4

329 Supported CoreShell Alloy Nanoparticle Catalysts for the Carbon Dioxide Hydrogenation to Formic Acid. *Nanostructure Science and Technology*, **2021**, 151-163 0.9

328	Experimental and computational study on roles of WO promoting strong metal support promoter interaction in Pt catalysts during glycerol hydrogenolysis. <i>Scientific Reports</i> , 2021 , 11, 530	4.9	3
327	Hollow Carbon Spheres Encapsulating Metal Nanoparticles for CO ₂ Hydrogenation Reactions. <i>Nanostructure Science and Technology</i> , 2021 , 425-440	0.9	
326	Introduction of a secondary ligand into titanium-based metal-organic frameworks for visible-light-driven photocatalytic hydrogen peroxide production from dioxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2815-2821	13	10
325	Dual Role of Missing-Linker Defects Terminated by Acetate Ligands in a Zirconium-Based MOF in Promoting Photocatalytic Hydrogen Peroxide Production. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27909-27918	3.8	6
324	Crystal Facet Engineering and Hydrogen Spillover-Assisted Synthesis of Defective Pt/TiO Nanorods with Enhanced Visible Light-Driven Photocatalytic Activity.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
323	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO ₂ Hydrogenation to Formate. <i>ACS Catalysis</i> , 2020 , 10, 6356-6366	13.1	26
322	Interfacial Engineering of PdAg/TiO ₂ with a Metal-Organic Framework to Promote the Hydrogenation of CO ₂ to Formic Acid. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11499-11505	3.8	8
321	Metal-organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14404-14414	3.6	18
320	Diesel Soot Combustion over Mn O Catalysts with Different Morphologies: Elucidating the Role of Active Oxygen Species in Soot Combustion. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2005-2014	4.5	7
319	Hybrid phase 1T/2H-MoS with controllable 1T concentration and its promoted hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 11908-11915	7.7	19
318	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a /TiO ₂ Catalyst with a TiO _x Shell. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5819-5829	6.1	13
317	Additive-Free Aqueous Phase Synthesis of Formic Acid by Direct CO ₂ Hydrogenation over a PdAg Catalyst on a Hydrophilic N-Doped Polymer/Silica Composite Support with High CO ₂ Affinity. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5847-5855	6.1	8
316	Mesoporous silica-Supported Ag-based plasmonic photocatalysts 2020 , 353-368		2
315	Tunable surface modification of a hematite photoanode by a Co(salen)-based cocatalyst for boosting photoelectrochemical performance. <i>Catalysis Science and Technology</i> , 2020 , 10, 1714-1723	5.5	3
314	Construction of Hybrid MoS Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. <i>Langmuir</i> , 2020 , 36, 1174-1182	4	20
313	A direct conversion of blast furnace slag to a mesoporous silica/calcium oxide composite and its application in CO ₂ captures. <i>Green Chemistry</i> , 2020 , 22, 3759-3768	10	11
312	Chemical Hydrogen Storage and Release Driven by PdAg Alloy Nanoparticle Catalysts. <i>Materia Japan</i> , 2020 , 59, 361-365	0.1	
311	PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO ₂ to formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4437-4446	13.6	20

310	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020 , 12, 11333-11363	7.7	79
309	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO ₂ for aerobic alcohol oxidation. <i>Catalysis Today</i> , 2020 , 352, 255-261	5.3	20
308	A hydrophobic titanium doped zirconium-based metal organic framework for photocatalytic hydrogen peroxide production in a two-phase system. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1904-1910	11.0	35
307	CoO-decorated CeO heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. <i>Nanoscale</i> , 2020 , 12, 1779-1789	7.7	23
306	Design of Advanced Functional Materials Using Nanoporous Single-Site Photocatalysts. <i>Chemical Record</i> , 2020 , 20, 660-671	6.6	3
305	Luminescent Single-Atom Eu-Coordinated Graphitic Carbon Nitride Nanosheets for Selective Sensing of Acetone and Cyclohexane. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10209-10217	5.6	6
304	Single-Site Heterogeneous Catalysts and Photocatalysts for Emerging Applications. <i>ACS Symposium Series</i> , 2020 , 151-188	0.4	3
303	Pyrene-Thiol-modified Pd Nanoparticles on Carbon Support: Kinetic Control by Steric Hinderance and Improved Stability by the Catalyst-Support Interaction. <i>ChemCatChem</i> , 2020 , 12, 5880-5887	5.2	3
302	Improvement of the water oxidation performance of Ti, F co-modified hematite by surface modification with a Co(salen) molecular cocatalyst. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21613-21622	11.3	6
301	Non-noble metal doped perovskite as a promising catalyst for ammonia borane dehydrogenation. <i>Catalysis Today</i> , 2020 , 351, 6-11	5.3	5
300	Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. <i>Catalysis Today</i> , 2020 , 355, 620-626	5.3	10
299	Some novel porous materials for selective catalytic oxidations. <i>Materials Today</i> , 2020 , 32, 244-259	21.8	24
298	Properties, fabrication and applications of plasmonic semiconductor nanocrystals. <i>Catalysis Science and Technology</i> , 2020 , 10, 4141-4163	5.5	10
297	Synthesis of a binary alloy nanoparticle catalyst with an immiscible combination of Rh and Cu assisted by hydrogen spillover on a TiO support. <i>Chemical Science</i> , 2020 , 11, 4194-4203	9.4	14
296	Recent Applications of Amorphous Alloys to Design Skeletal Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 438-454	5.1	9
295	Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with Pyrene-Thiol Ligands for Semihydrogenation of Alkynes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37708-37719	9.5	12
294	Controlled release of hydrogen isotope compounds and tunneling effect in the heterogeneously-catalyzed formic acid dehydrogenation. <i>Nature Communications</i> , 2019 , 10, 4094	17.4	26
293	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. <i>Topics in Current Chemistry</i> , 2019 , 377, 27	7.2	9

292	Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of p-nitrophenol. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3783-3789	13	25
291	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
290	PdAg nanoparticles supported on resorcinol-formaldehyde polymers containing amine groups: the promotional effect of phenylamine moieties on CO ₂ transformation to formic acid. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16356-16363	13	24
289	Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. <i>Chemical Communications</i> , 2019 , 55, 6743-6746	5.8	33
288	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. <i>Frontiers in Materials</i> , 2019 , 6,	4	52
287	Tailoring the Size and Shape of Colloidal Noble Metal Nanocrystals as a Valuable Tool in Catalysis. <i>Catalysis Surveys From Asia</i> , 2019 , 23, 127-148	2.8	18
286	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2019 , 131, 5456-5460	3.6	14
285	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
284	Ultra-Low Loading of Ru Clusters over Graphitic Carbon Nitride: A Drastic Enhancement in Photocatalytic Hydrogen Evolution Activity. <i>ChemCatChem</i> , 2019 , 11, 1963-1969	5.2	12
283	Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. <i>Catalysis Today</i> , 2019 , 324, 90-96	5.3	24
282	Plasmonic catalysis of Ag nanoparticles deposited on CeO ₂ modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. <i>Catalysis Today</i> , 2019 , 324, 83-89	5.3	29
281	Photocatalytic properties of TiO ₂ -loaded porous silica with hierarchical macroporous and mesoporous architectures in the degradation of gaseous organic molecules. <i>Catalysis Today</i> , 2019 , 332, 222-226	5.3	14
280	RuPd Alloy Nanoparticles Supported on Plasmonic HxMoO ₃ y for Efficient Photocatalytic Reduction of p-Nitrophenol. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3745-3752	2.3	3
279	Design of Pd-Graphene-Au Nanorod Nanocomposite Catalyst for Boosting Suzuki-Miyaura Coupling Reaction by Assistance of Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24575-24583	3.8	16
278	PdAg Nanoparticles within Core-Shell Structured Zeolitic Imidazolate Framework as a Dual Catalyst for Formic Acid-based Hydrogen Storage/Production. <i>Scientific Reports</i> , 2019 , 9, 15675	4.9	26
277	Hollow titanasilicate nanospheres encapsulating PdAu alloy nanoparticles as reusable high-performance catalysts for a H ₂ O ₂ -mediated one-pot oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7221-7231	13	12
276	Incorporation of a Ru complex into an amine-functionalized metal-organic framework for enhanced activity in photocatalytic aerobic benzyl alcohol oxidation. <i>Catalysis Science and Technology</i> , 2019 , 9, 15117-15126	5.5	26
275	Metal-organic 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

274	Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 19-29	5.1	21
273	Enhanced formic acid dehydrogenation by the synergistic alloying effect of PdCo catalysts supported on graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28483-28493	6.7	26
272	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
271	Defect Engineering of MoS and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 278-285	4.5	12
270	Catalytic combustion of diesel soot over Fe and Ag-doped manganese oxides: role of heteroatoms in the catalytic performances. <i>Catalysis Science and Technology</i> , 2018 , 8, 1905-1914	5.5	22
269	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
268	Ruthenium(II)-Bipyridine/NanoC N Hybrids: Tunable Photochemical Properties by Using Exchangeable Alkali Metal Cations. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1348-1356	4.5	6
267	Oxidation of Benzyl Alcohol over Nanoporous AuTeO ₂ Catalysts Prepared from Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5599-5605	3.9	24
266	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
265	Preparation, characterizations, and antibacterial properties of Cu/SnO ₂ nanocomposite bilayer coatings 2018 , 15, 437-443		7
264	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
263	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C ₃ N ₄ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 358, 327-333	4.7	24
262	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
261	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
260	Effects of Carbon Support Nanostructures on the Reactivity of a Ru Nanoparticle Catalyst in a Hydrogen Transfer Reaction. <i>Organic Process Research and Development</i> , 2018 , 22, 1580-1585	3.9	7
259	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , 2018 , 10, 3424-3428	5.2	14
258	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
257	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

256	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
255	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. <i>Small Methods</i> , 2018 , 2, 1800212	12.8	37
254	Plasmonic metal/MoW _{1-x} O _{3-x} for visible-light-enhanced H ₂ production from ammonia borane. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10932-10938	13	34
253	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
252	Simple Route for the Synthesis of Highly Active Bimetallic Nanoparticle Catalysts with Immiscible Ru and Ni Combination by utilizing a TiO ₂ Support. <i>ChemCatChem</i> , 2018 , 10, 3526-3531	5.2	15
251	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
250	Reaction Kinetics on Allophane/Titanium Nanocomposite Electrodes for Photofuel Cells. <i>Chemistry Letters</i> , 2017 , 46, 659-661	1.7	4
249	High-surface-area plasmonic MoO _{3-x} : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8946-8953	13	69
248	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
247	Shape Effect of MnO _x -Decorated CeO ₂ Catalyst in Diesel Soot Oxidation. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 556-564	5.1	17
246	Synthesis of carbon-supported Pd ₂ Co bimetallic catalysts templated by Co nanoparticles using the galvanic replacement method for selective hydrogenation. <i>RSC Advances</i> , 2017 , 7, 22294-22300	3.7	28
245	Synthesis of mesoporous silica-supported Ag nanorod-based bimetallic catalysts and investigation of their plasmonic activity under visible light irradiation. <i>Catalysis Science and Technology</i> , 2017 , 7, 2551-2558	5.5	29
244	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
243	Controlling Photocatalytic Activity and Size Selectivity of TiO Encapsulated in Hollow Silica Spheres by Tuning Silica Shell Structures Using Sacrificial Biomolecules. <i>Langmuir</i> , 2017 , 33, 6314-6321	4	15
242	Dramatically Enhanced Phenol Degradation on Alkali Cation-Anchored TiO ₂ /SiO ₂ Hybrids: Effect of Cation-Interaction as a Diffusion-Controlling Tool in Heterogeneous Catalysis. <i>ChemistrySelect</i> , 2017 , 2, 4332-4337	1.8	6
241	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO ₂ to Formic Acid. <i>ChemCatChem</i> , 2017 , 9, 1867-1867	5.2	3
240	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO ₂ to Formic Acid. <i>ChemCatChem</i> , 2017 , 9, 1906-1914	5.2	30
239	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

238	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
237	Specific Enhancement of Activity of Carbon-supported Single-site Co Catalyst in the Microwave-assisted Solvent-free Aerobic Oxidation. <i>Chemistry Letters</i> , 2017 , 46, 789-791	1.7	7
236	Fabrication of Photocatalytic Paper Using TiO Nanoparticles Confined in Hollow Silica Capsules. <i>Langmuir</i> , 2017 , 33, 288-295	4	34
235	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
234	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to γ -Valerolactone over Sulfonic Acid-Functionalized UiO-66. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1141-1152	8.3	145
233	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
232	Multifunctional surface designed by nanocomposite coating of polytetrafluoroethylene and TiO photocatalyst: self-cleaning and superhydrophobicity. <i>Scientific Reports</i> , 2017 , 7, 13628	4.9	29
231	Phosphate Removal from Aqueous Solutions Using Calcium Silicate Hydrate Prepared from Blast Furnace Slag. <i>ISIJ International</i> , 2017 , 57, 1657-1664	1.7	16
230	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
229	Mesoporous silica supported Pd/Ag bimetallic nanoparticles as a plasmonic catalyst for chemoselective hydrogenation of p-nitrostyrene under visible light irradiation. <i>Journal of Chemical Sciences</i> , 2017 , 129, 1661-1669	1.8	14
228	One-pot synthesis of molybdenum oxide nanoparticles encapsulated in hollow silica spheres: an efficient and reusable catalyst for epoxidation of olefins. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18518-18525	13	25
227	Synthesis of Ag nanoparticles encapsulated in hollow silica spheres for efficient and selective removal of low-concentrated sulfur compounds. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25431-25437	13	8
226	Effect of alkaline-earth species in phosphate glasses on the mobility of proton carriers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12385-12392	13	12
225	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
224	Controlled synthesis of carbon-supported Co catalysts from single-sites to nanoparticles: characterization of the structural transformation and investigation of their oxidation catalysis. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4967-4974	3.6	30
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