

# Yasutaka Kuwahara

## List of Publications by Year in descending order

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200  
papers

8,511  
citations

36271

51  
h-index

62565

80  
g-index

211  
all docs

211  
docs citations

211  
times ranked

8550  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ru complex and N, P-containing polymers confined within mesoporous hollow carbon spheres for hydrogenation of CO <sub>2</sub> to formate. Nano Research, 2023, 16, 4515-4523.	5.8	8
2	Synthesis of a CaO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> composite from a dephosphorization slag for adsorption of CO <sub>2</sub> . Catalysis Today, 2023, 410, 264-272.	2.2	9
3	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
4	New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. EnergyChem, 2022, 4, 100070.	10.1	13
5	Improvement of acid resistance of Zn-doped dentin by newly generated chemical bonds. Materials and Design, 2022, 215, 110412.	3.3	4
6	Hydrodeoxygenation of Aromatic Ketones under Mild Conditions over Pd-loaded Hydrogen Molybdenum Bronze with Plasmonic Features. Chemistry Letters, 2022, 51, 166-169.	0.7	3
7	Crystal Facet Engineering and Hydrogen Spillover-Assisted Synthesis of Defective Pt/TiO <sub>2</sub> Nanorods with Enhanced Visible Light-Driven Photocatalytic Activity. ACS Applied Materials & Interfaces, 2022, 14, 2291-2300.	4.0	16
8	Direct Synthesis of a Regenerative CaO-Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> Composite Adsorbent from Converter Slag for CO <sub>2</sub> Capture Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 372-381.	3.2	14
9	Enhanced visible-NIR absorption and oxygen vacancy generation of Pt/H <sub>2</sub> MoWO <sub>4</sub> by H-spillover to facilitate photothermal catalytic CO <sub>2</sub> hydrogenation. Journal of Materials Chemistry A, 2022, 10, 10854-10864.	5.2	16
10	Size effects in plasmonic gold nanorod based Pd-rGO hybrid catalyst for promoting visible-light-driven Suzuki-Miyaura coupling reaction. Catalysis Today, 2022, , .	2.2	2
11	Development of Multi-functional Catalysts for Capture and Catalytic Transformation of Carbon Dioxide Using Nanoporous Materials. Journal of the Japan Petroleum Institute, 2022, 65, 125-133.	0.4	2
12	Ru/H <sub>2</sub> MoO <sub>3</sub> - with plasmonic effect for boosting photothermal catalytic CO <sub>2</sub> methanation. Applied Catalysis B: Environmental, 2022, 317, 121734.	10.8	27
13	Promotional effect of surface plasmon resonance on direct formation of hydrogen peroxide from H <sub>2</sub> and O <sub>2</sub> over Pd/Graphene-Au nanorod catalytic system. Journal of Catalysis, 2021, 394, 259-265.	3.1	11
14	Catalytic and photocatalytic epoxidation over microporous titanasilicates with nanosheet or layered structure. Catalysis Today, 2021, 376, 28-35.	2.2	7
15	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO <sub>2</sub> to formate. Applied Catalysis B: Environmental, 2021, 283, 119628.	10.8	54
16	Manipulation of plasmon-induced hot electron transport in Pd/MoO <sub>3</sub> -x@ZIF-8: Boosting the activity of Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. Applied Catalysis B: Environmental, 2021, 282, 119511.	10.8	29
17	Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. Materials Advances, 2021, 2, 880-906.	2.6	22
18	Synthesis of Plasmonic Catalyst with Core-Shell Structure for Visible Light Enhanced Catalytic Performance. Nanostructure Science and Technology, 2021, , 233-243.	0.1	0

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19	Design and Synthesis of Yolk-Shell Nanostructured Silica Encapsulating Metal Nanoparticles and Aminopolymers for Selective Hydrogenation Reactions. <i>Nanostructure Science and Technology</i> , 2021, , 395-411.	0.1	0
20	A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO <sub>2</sub> hydrogenation to methanol. <i>Chemical Science</i> , 2021, 12, 9902-9915.	3.7	35
21	Plasmon-induced catalytic CO <sub>2</sub> hydrogenation by a nano-sheet Pt/H <sub>x</sub> MoO <sub>3-y</sub> hybrid with abundant surface oxygen vacancies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13898-13907.	5.2	31
22	Pd-Cu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the Hydrogenation of CO <sub>2</sub> to Formate. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3961-3971.	1.5	25
23	Photocatalytically-driven H <sub>2</sub> production over Cu/TiO <sub>2</sub> catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , 2021, 364, 182-189.	2.2	19
24	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.	1.5	10
25	How the Morphology of NiO <sub>x</sub> -Decorated CeO <sub>2</sub> Nanostructures Affects Catalytic Properties in CO <sub>2</sub> Methanation. <i>Langmuir</i> , 2021, 37, 5376-5384.	1.6	28
26	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.	3.6	9
27	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.	2.5	24
28	Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 165-233.	5.7	21
29	Design of Plasmonic Catalysts Utilizing Nanostructures. <i>Journal of the Japan Petroleum Institute</i> , 2021, 64, 155-165.	0.4	0
30	Hybrid Phase MoS <sub>2</sub> as a Noble Metal-Free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20887-20895.	1.5	7
31	Self-assembled core-shell nanocomposite catalysts consisting of single-site Co-coordinated g-C <sub>3</sub> N <sub>4</sub> and Au nanorods for plasmon-enhanced CO <sub>2</sub> reduction. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 52, 101691.	3.3	12
32	The ClO <sub>2</sub> <sup>-</sup> generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120387.	10.8	24
33	Experimental and computational study on roles of WO <sub>x</sub> promoting strong metal support promoter interaction in Pt catalysts during glycerol hydrogenolysis. <i>Scientific Reports</i> , 2021, 11, 530.	1.6	8
34	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.	5.2	39
35	Defect Engineering of Pt/TiO <sub>2</sub> Photocatalysts via Reduction Treatment Assisted by Hydrogen Spillover. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48669-48678.	4.0	21
36	Recent strategies for enhancing the catalytic activity of CO <sub>2</sub> hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 54, 101765.	3.3	27

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37	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.	5.2	38
38	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.	1.5	27
39	Non-noble metal doped perovskite as a promising catalyst for ammonia borane dehydrogenation. <i>Catalysis Today</i> , 2020, 351, 6-11.	2.2	8
40	Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. <i>Catalysis Today</i> , 2020, 355, 620-626.	2.2	14
41	Some novel porous materials for selective catalytic oxidations. <i>Materials Today</i> , 2020, 32, 244-259.	8.3	44
42	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO <sub>2</sub> for aerobic alcohol oxidation. <i>Catalysis Today</i> , 2020, 352, 255-261.	2.2	32
43	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.	5.2	89
44	CoO <sub>x</sub> -decorated CeO <sub>2</sub> heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. <i>Nanoscale</i> , 2020, 12, 1779-1789.	2.8	37
45	Design of Advanced Functional Materials Using Nanoporous Single-Site Photocatalysts. <i>Chemical Record</i> , 2020, 20, 660-671.	2.9	7
46	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.	1.8	11
47	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.	5.2	13
48	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO <sub>2</sub> Hydrogenation to Formate. <i>ACS Catalysis</i> , 2020, 10, 6356-6366.	5.5	51
49	Metal-organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14404-14414.	1.3	43
50	Diesel Soot Combustion over Mn <sub>2</sub> O <sub>3</sub> Catalysts with Different Morphologies: Elucidating the Role of Active Oxygen Species in Soot Combustion. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2005-2014.	1.7	10
51	Hybrid phase 1T/2H-MoS <sub>2</sub> with controllable 1T concentration and its promoted hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 11908-11915.	2.8	62
52	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a Ag@Pd/TiO <sub>2</sub> Catalyst with a TiO <sub>x</sub> Shell. <i>ACS Applied Energy Materials</i> , 2020, 3, 5819-5829.	2.5	27
53	Additive-Free Aqueous Phase Synthesis of Formic Acid by Direct CO <sub>2</sub> Hydrogenation over a PdAg Catalyst on a Hydrophilic N-Doped Polymer-Silica Composite Support with High CO <sub>2</sub> Affinity. <i>ACS Applied Energy Materials</i> , 2020, 3, 5847-5855.	2.5	22
54	Mesoporous silica-supported Ag-based plasmonic photocatalysts. , 2020, , 353-368.		3

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55	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.	2.1	8
56	Construction of Hybrid MoS <sub>2</sub> Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. <i>Langmuir</i> , 2020, 36, 1174-1182.	1.6	41
57	A direct conversion of blast furnace slag to a mesoporous silica-calcium oxide composite and its application in CO <sub>2</sub> captures. <i>Green Chemistry</i> , 2020, 22, 3759-3768.	4.6	18
58	Properties, fabrication and applications of plasmonic semiconductor nanocrystals. <i>Catalysis Science and Technology</i> , 2020, 10, 4141-4163.	2.1	15
59	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. <i>Chemical Science</i> , 2020, 11, 4194-4203.	3.7	32
60	Recent Applications of Amorphous Alloys to Design Skeletal Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 438-454.	2.0	15
61	PdAg nanoparticles and aminopolymer confined within mesoporous hollow carbon spheres as an efficient catalyst for hydrogenation of CO <sub>2</sub> to formate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4437-4446.	5.2	31
62	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020, 12, 11333-11363.	2.8	193
63	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. <i>Topics in Current Chemistry Collections</i> , 2020, , 193-223.	0.2	4
64	Defect Engineering of MoS <sub>2</sub> and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 278-285.	1.7	39
65	Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. <i>Catalysis Today</i> , 2019, 324, 90-96.	2.2	40
66	Plasmonic catalysis of Ag nanoparticles deposited on CeO <sub>2</sub> modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. <i>Catalysis Today</i> , 2019, 324, 83-89.	2.2	35
67	RuPd Alloy Nanoparticles Supported on Plasmonic H x MoO <sub>3-y</sub> for Efficient Photocatalytic Reduction of p -Nitrophenol. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3745-3752.	1.0	10
68	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.	1.5	31
69	Preparation of Porous Ni Catalysts from Ni-Ti Amorphous Alloy and Their Application in Hydrogen Production from Hydrogen Carrier Molecule. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 893-899.	0.1	1
70	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.	1.6	43
71	Engineering of Surface Environment of Pd Nanoparticle Catalysts on Carbon Support with Pyrene-Thiol Ligands for Semihydrogenation of Alkynes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37708-37719.	4.0	33
72	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. <i>Topics in Current Chemistry</i> , 2019, 377, 27.	3.0	17

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73	Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of <i>p</i> -nitrophenol. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3783-3789.	5.2	41
74	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.	5.5	101
75	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. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16356-16363.	5.2	39
76	Ti cluster-alkylated hydrophobic MOFs for photocatalytic production of hydrogen peroxide in two-phase systems. <i>Chemical Communications</i> , 2019, 55, 6743-6746.	2.2	54
77	New Approaches Toward the Hydrogen Production From Formic Acid Dehydrogenation Over Pd-Based Heterogeneous Catalysts. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	93
78	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.	1.0	23
79	Two-Phase System Utilizing Hydrophobic Metal-Organic Frameworks (MOFs) for Photocatalytic Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2019, 131, 5456-5460.	1.6	30
80	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.	7.2	169
81	Hollow titanosilicate nanospheres encapsulating PdAu alloy nanoparticles as reusable high-performance catalysts for a H <sub>2</sub> O <sub>2</sub> -mediated one-pot oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7221-7231.	5.2	19
82	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, 1511-1517.	2.1	31
83	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.	2.0	31
84	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.	3.8	46
85	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.	2.2	61
86	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.	2.1	31
87	Recent strategies targeting efficient hydrogen production from chemical hydrogen storage materials over carbon-supported catalysts. <i>NPG Asia Materials</i> , 2018, 10, 277-292.	3.8	104
88	Oxidation of Benzyl Alcohol over Nanoporous Au-CeO <sub>2</sub> Catalysts Prepared from Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 5599-5605.	1.8	30
89	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.	10.8	97
90	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C <sub>3</sub> N <sub>4</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 327-333.	2.0	29

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91	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.	1.7	78
92	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. <i>Small Methods</i> , 2018, 2, 1800212.	4.6	50
93	Plasmonic metal/Mo <sub>x</sub> W <sub>1-x</sub> O <sub>3-y</sub> for visible-light-enhanced H <sub>2</sub> production from ammonia borane. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10932-10938.	5.2	47
94	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.	2.2	81
95	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1767-1779.	1.7	49
96	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.	1.3	9
97	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , 2018, 10, 3424-3428.	1.8	14
98	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.	18.7	176
99	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.	6.6	102
100	The fabrication of TiO <sub>2</sub> supported on slag-made calcium silicate as low-cost photocatalyst with high adsorption ability for the degradation of dye pollutants in water. <i>Catalysis Today</i> , 2017, 281, 21-28.	2.2	49
101	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to $\gamma$ -valerolactone over ZrO <sub>2</sub> catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , 2017, 281, 418-428.	2.2	129
102	High-surface-area plasmonic MoO <sub>3-x</sub> : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8946-8953.	5.2	94
103	Palladium Nanoparticles Supported on Titanium-Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. <i>Chemistry - an Asian Journal</i> , 2017, 12, 860-867.	1.7	57
104	Shape Effect of MnO <sub>x</sub> -Decorated CeO <sub>2</sub> Catalyst in Diesel Soot Oxidation. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 556-564.	2.0	20
105	Synthesis of carbon-supported Pd-Co bimetallic catalysts templated by Co nanoparticles using the galvanic replacement method for selective hydrogenation. <i>RSC Advances</i> , 2017, 7, 22294-22300.	1.7	35
106	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.	2.1	36
107	Controlling Photocatalytic Activity and Size Selectivity of TiO <sub>2</sub> Encapsulated in Hollow Silica Spheres by Tuning Silica Shell Structures Using Sacrificial Biomolecules. <i>Langmuir</i> , 2017, 33, 6314-6321.	1.6	17
108	Dramatically Enhanced Phenol Degradation on Alkali Cation-Anchored TiO <sub>2</sub> /SiO <sub>2</sub> Hybrids: Effect of Cation Interaction as a Diffusion Controlling Tool in Heterogeneous Catalysis. <i>ChemistrySelect</i> , 2017, 2, 4332-4337.	0.7	6

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109	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO <sub>2</sub> to Formic Acid. <i>ChemCatChem</i> , 2017, 9, 1867-1867.	1.8	3
110	Poly(ethyleneimine)-tethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO <sub>2</sub> to Formic Acid. <i>ChemCatChem</i> , 2017, 9, 1906-1914.	1.8	47
111	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.	0.7	8
112	Fabrication of Photocatalytic Paper Using TiO <sub>2</sub> Nanoparticles Confined in Hollow Silica Capsules. <i>Langmuir</i> , 2017, 33, 288-295.	1.6	44
113	Enhancement of Ag-Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Single-Site TiO <sub>2</sub> Moieties within a Silica Framework. <i>Chemistry - A European Journal</i> , 2017, 23, 3616-3622.	1.7	51
114	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to $\gamma$ -Valerolactone over Sulfonic Acid-Functionalized UiO-66. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1141-1152.	3.2	198
115	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.	1.5	72
116	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2017, 5, 21883-21892.	5.2	75
117	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.	0.7	16
118	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, 18518-18526.	5.2	48
119	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.	5.2	9
120	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.	5.2	14
121	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 555-569.	10.8	173
122	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.	1.3	37
123	Surface plasmon resonance enhancement of production of H <sub>2</sub> from ammonia borane solution with tunable Cu <sub>2</sub> S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017, 31, 57-63.	8.2	65
124	Plasmonic Au@Pd Nanoparticles Supported on a Basic Metal-Organic Framework: Synergic Boosting of H <sub>2</sub> Production from Formic Acid. <i>ACS Energy Letters</i> , 2017, 2, 1-7.	8.8	180
125	Palladium Nanoparticles Encapsulated in Hollow Titanosilicate Spheres as an Ideal Nanoreactor for One-pot Oxidation. <i>Chemistry - A European Journal</i> , 2017, 23, 380-389.	1.7	21
126	Phosphate Removal from Aqueous Solutions Using Calcium Silicate Hydrate Prepared from Blast Furnace Slag. <i>ISIJ International</i> , 2017, 57, 1657-1664.	0.6	23



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127	Morphology-controlled Pd nanocrystals as catalysts in tandem dehydrogenation-hydrogenation reactions. <i>Journal of Chemical Sciences</i> , 2017, 129, 1695-1703.	0.7	10
128	Liquid-phase oxidation of alkylaromatics to aromatic ketones with molecular oxygen over a Mn-based metal-organic framework. <i>Dalton Transactions</i> , 2017, 46, 8415-8421.	1.6	38
129	Design of TiO <sub>2</sub> -loaded Porous Siliceous Materials and Application to Photocatalytic Environmental Purification. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 165-173.	0.4	6
130	Skeletal Ni Catalysts Prepared from Amorphous Ni-Zr Alloys: Enhanced Catalytic Performance for Hydrogen Generation from Ammonia Borane. <i>ChemPhysChem</i> , 2016, 17, 412-417.	1.0	15
131	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , 2016, 138, 9316-9324.	6.6	201
132	Efficient Hydrogen Generation from Ammonia Borane on Skeletal Cu Catalysts Prepared from Cu-Ti Amorphous Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2016, 80, 365-369.	0.2	1
133	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.	5.2	95
134	Skeletal Au prepared from Au-Zr amorphous alloys with controlled atomic compositions and arrangement for active oxidation of benzyl alcohol. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8458-8465.	5.2	12
135	Nanometal-Loaded Metal-Organic-Framework Photocatalysts. <i>Nanostructure Science and Technology</i> , 2016, , 507-522.	0.1	0
136	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.	2.2	61
137	Investigation of Size Sensitivity in the Hydrogen Production from Formic Acid over Carbon-Supported Pd Nanoparticles. <i>ChemistrySelect</i> , 2016, 1, 1879-1886.	0.7	44
138	Facile Synthesis of Yolk-Shell Nanostructured Photocatalyst with Improved Adsorption Properties and Molecular Sieving Properties. <i>ChemCatChem</i> , 2016, 8, 2781-2788.	1.8	29
139	Non-Noble-Metal Nanoparticle Supported on Metal-Organic Framework as an Efficient and Durable Catalyst for Promoting H <sub>2</sub> Production from Ammonia Borane under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21278-21284.	4.0	88
140	Room-Temperature and Aqueous-Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for Visible-Light-Enhanced Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2377-2381.	1.7	33
141	Enhancement of Catalytic Activity Over AuPd Nanoparticles Loaded Metal Organic Framework Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2016, 59, 1765-1771.	1.3	22
142	Fabrication of Densely Packed HKUST-1 Metal Organic Framework Thin Layers on a Cu Substrate through a Controlled Dissolution of Cu. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 1048-1053.	2.0	10
143	Deposition of Metal Organic Framework Layers on Skeletal Cu Prepared from Cu-Ti Amorphous Alloy and Their Enhanced Catalytic Activities. <i>Chemistry Letters</i> , 2016, 45, 976-978.	0.7	3
144	Removal of Phosphate from Aqueous Solution Using Layered Double Hydroxide Prepared from Waste Iron-Making Slag. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 472-480.	2.0	22

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145	Enhanced ammonia-borane decomposition by synergistic catalysis using CoPd nanoparticles supported on titano-silicates. RSC Advances, 2016, 6, 91768-91772.	1.7	13
146	Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt-Pd Alloy Cocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 20667-20674.	4.0	91
147	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. Langmuir, 2016, 32, 12110-12118.	1.6	61
148	Fabrication of Functional Materials Utilizing Blast Furnace Slag and Its Applications. Materia Japan, 2016, 55, 336-340.	0.1	0
149	Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid. Industrial & Engineering Chemistry Research, 2016, 55, 7612-7620.	1.8	35
150	Hydrogenation of 1-octene over skeletal Pd catalysts prepared from Pd-Zr amorphous alloys and the effect of Ni addition. Catalysis Today, 2016, 265, 138-143.	2.2	7
151	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
152	In situ-created Mn(III) complexes active for liquid-phase oxidation of alkylaromatics to aromatic ketones with molecular oxygen. Catalysis Science and Technology, 2016, 6, 442-448.	2.1	22
153	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.	2.0	26
154	New Method for the Synthesis of Ru Nanoparticles Using Photoexcited Fullerene C60-containing Mesoporous Silica as a Catalyst Support. Chemistry Letters, 2015, 44, 1691-1693.	0.7	4
155	Efficient Hydrogen Generation from Ammonia Borane on Skeletal Cu Catalysts Prepared from Cu-Ti Amorphous Alloys. Materials Transactions, 2015, 56, 485-489.	0.4	9
156	A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. Advanced Materials, 2015, 27, 4616-4621.	11.1	174
157	Visible-Light-Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a Zirconium Phosphate Layered Matrix. ChemCatChem, 2015, 7, 3519-3525.	1.8	26
158	Synthesis of Ca-based Layered Double Hydroxide from Blast Furnace Slag and Its Catalytic Applications. ISJ International, 2015, 55, 1531-1537.	0.6	22
159	Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. Journal of Materials Chemistry A, 2015, 3, 5244-5258.	5.2	127
160	Uniform anatase single-crystal cubes with high thermal stability fully enclosed by active {010} and {001} facets. RSC Advances, 2015, 5, 11029-11035.	1.7	12
161	Synthesis of Ce ions doped metal-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
162	Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into Î³-valerolactone at ambient conditions. Catalysis Today, 2015, 258, 262-269.	2.2	59

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163	Preparation of Pt/C Catalyst by Coaxial Arc Plasma Deposition for Polymer Electrolyte Membrane Fuel Cells. <i>ECS Electrochemistry Letters</i> , 2015, 4, F57-F60.	1.9	15
164	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.	5.2	87
165	Active skeletal Ni catalysts prepared from Ni-Zr amorphous alloys by oxygen treatment. <i>Applied Catalysis A: General</i> , 2015, 504, 559-564.	2.2	12
166	Photocatalytic Epoxidation of Olefins Using Molecular O <sub>2</sub> by TiO <sub>2</sub> Incorporated in Hydrophobic Y Zeolite. <i>Rapid Communication in Photoscience</i> , 2015, 4, 19-21.	0.1	5
167	Silver Nanoparticles Supported on CeO <sub>2</sub> -SBA-15 by Microwave Irradiation Possess Metal-Support Interactions and Enhanced Catalytic Activity. <i>Chemistry - A European Journal</i> , 2014, 20, 15746-15752.	1.7	52
168	Esterification of levulinic acid with ethanol over sulfated Si-doped ZrO <sub>2</sub> solid acid catalyst: Study of the structure-activity relationships. <i>Applied Catalysis A: General</i> , 2014, 476, 186-196.	2.2	104
169	Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. <i>ChemSusChem</i> , 2014, 7, 1528-1536.	3.6	109
170	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.	2.2	75
171	Catalytic transfer hydrogenation of levulinate esters to $\gamma$ -valerolactone over supported ruthenium hydroxide catalysts. <i>RSC Advances</i> , 2014, 4, 45848-45855.	1.7	55
172	Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. <i>ChemSusChem</i> , 2014, 7, 1495-1495.	3.6	3
173	Catalytic Conversion of Levulinic Acid and Its Esters to $\gamma$ -Valerolactone over Silica-Supported Zirconia Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1252-1254.	2.0	24
174	Activity, Recyclability, and Stability of Lipases Immobilized on Oil-Filled Spherical Silica Nanoparticles with Different Silica Shell Structures. <i>ChemCatChem</i> , 2013, 5, 2527-2536.	1.8	23
175	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.	5.2	72
176	A new catalytic opportunity for waste materials: Application of waste slag based catalyst in CO <sub>2</sub> fixation reaction. <i>Journal of CO<sub>2</sub> Utilization</i> , 2013, 1, 50-59.	3.3	68
177	Fabrication of Catalyst Using Waste Iron-making Slag and Its Application in Green Chemical Reactions. <i>Journal of Smart Processing</i> , 2013, 2, 326-331.	0.0	0
178	Lipase-embedded silica nanoparticles with oil-filled core-shell structure: stable and recyclable platforms for biocatalysts. <i>Chemical Communications</i> , 2012, 48, 2882.	2.2	39
179	Enhanced CO <sub>2</sub> 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, 16649-16664.	1.7	118
180	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.	2.1	63

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181	Waste Slag Hydrocalumite and Derivatives as Heterogeneous Base Catalysts. <i>ChemSusChem</i> , 2012, 5, 1523-1532.	3.6	32
182	Dramatic Enhancement of CO <sub>2</sub> Uptake by Poly(ethyleneimine) Using Zirconosilicate Supports. <i>Journal of the American Chemical Society</i> , 2012, 134, 10757-10760.	6.6	205
183	TiO <sub>2</sub> 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.	3.1	101
184	Enhancement in Adsorption and Catalytic Activity of Enzymes Immobilized on Phosphorus- and Calcium-Modified MCM-41. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10335-10345.	1.2	47
185	Efficient photocatalytic degradation of organics diluted in water and air using TiO <sub>2</sub> designed with zeolites and mesoporous silica materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 2407-2416.	6.7	119
186	Enhanced Catalytic Activity on Titanosilicate Molecular Sieves Controlled by Cation- $\pi$ Interactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 12462-12465.	6.6	96
187	Preparation of hydrophobically modified single-site Ti-containing mesoporous silica (TiSBA-15) and their enhanced catalytic performances. <i>Catalysis Today</i> , 2011, 175, 393-397.	2.2	22
188	Hydrophobic Modification of Ti-Containing Zeolite (TS-1) and Their Applications in Liquid-Phase Selective Catalytic Reactions. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 592-594.	2.0	14
189	Design of New Functional Titanium Oxide-Based Photocatalysts for Degradation of Organics Diluted in Water and Air. <i>Current Organic Chemistry</i> , 2010, 14, 616-629.	0.9	37
190	A novel conversion process for waste slag: synthesis of a hydroxalcalite-like compound and zeolite from blast furnace slag and evaluation of adsorption capacities. <i>Journal of Materials Chemistry</i> , 2010, 20, 5052.	6.7	118
191	Simple Design of Hydrophobic Zeolite Material by Modification Using TEFS and its Application as a Support of TiO <sub>2</sub> Photocatalyst. <i>Topics in Catalysis</i> , 2009, 52, 193-196.	1.3	6
192	Fabrication of Hydrophobic Zeolites Using Triethoxyfluorosilane and their Application for Photocatalytic Degradation of Acetaldehyde. <i>Topics in Catalysis</i> , 2009, 52, 643-648.	1.3	15
193	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. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1552-1559.	1.5	96
194	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.	6.7	55
195	Synthesis of Hydroxyapatite-Zeolite Composite Material from Disposed Steel Slag and Investigation of Its Structural and Physicochemical Characteristics. <i>Chemistry Letters</i> , 2009, 38, 626-627.	0.7	18
196	Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO <sub>2</sub> photocatalyst. <i>Journal of Materials Science</i> , 2008, 43, 2407-2410.	1.7	44
197	TiO <sub>2</sub> photocatalyst loaded on hydrophobic Si <sub>3</sub> N <sub>4</sub> support for efficient degradation of organics diluted in water. <i>Applied Catalysis A: General</i> , 2008, 350, 164-168.	2.2	48
198	Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO <sub>2</sub> photocatalysts. <i>Chemical Communications</i> , 2008, , 4783.	2.2	63

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199	Synthesis and Photocatalytic Activity of TiO <sub>2</sub> Nanoparticles Loaded on the Fluorine-Modified Hydrophobic Mesoporous Silica. Solid State Phenomena, 2007, 124-126, 1817-1820.	0.3	0
200	XAFS Study on TiO <sub>2</sub> Photocatalyst Loaded on Zeolite Synthesized from Steel Slag. AIP Conference Proceedings, 2007, , .	0.3	1