

Yasutaka Kuwahara

List of Publications by Year in descending order

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200
papers

8,511
citations

36203

51
h-index

62479

80
g-index

211
all docs

211
docs citations

211
times ranked

8550
citing authors

#	ARTICLE	IF	CITATIONS
1	Dramatic Enhancement of CO ₂ Uptake by Poly(ethyleneimine) Using Zirconosilicate Supports. <i>Journal of the American Chemical Society</i> , 2012, 134, 10757-10760.	6.6	205
2	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
3	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.	3.2	198
4	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020, 12, 11333-11363.	2.8	193
5	Plasmonic Au@Pd Nanoparticles Supported on a Basic Metal-Organic Framework: Synergic Boosting of H ₂ Production from Formic Acid. <i>ACS Energy Letters</i> , 2017, 2, 1-7.	8.8	180
6	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
7	A Plasmonic Molybdenum Oxide Hybrid with Reversible Tunability for Visible-Light-Enhanced Catalytic Reactions. <i>Advanced Materials</i> , 2015, 27, 4616-4621.	11.1	174
8	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
9	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
10	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.	2.2	129
11	Harnessing single-active plasmonic nanostructures for enhanced photocatalysis under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5244-5258.	5.2	127
12	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.	6.7	119
13	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.	6.7	118
14	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, 16649-16664.	1.7	118
15	Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. <i>ChemSusChem</i> , 2014, 7, 1528-1536.	3.6	109
16	Esterification of levulinic acid with ethanol over sulfated Si-doped ZrO ₂ solid acid catalyst: Study of the structure-activity relationships. <i>Applied Catalysis A: General</i> , 2014, 476, 186-196.	2.2	104
17	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
18	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.	5.2	102

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19	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
20	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.	3.1	101
21	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
22	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
23	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.	1.5	96
24	Enhanced Catalytic Activity on Titanosilicate Molecular Sieves Controlled by Cation-π Interactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 12462-12465.	6.6	96
25	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
26	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.	5.2	94
27	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
28	Shape and Composition Effects on Photocatalytic Hydrogen Production for Pt-Pd Alloy Cocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20667-20674.	4.0	91
29	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
30	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, 21278-21284.	4.0	88
31	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
32	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
33	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
34	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
35	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.	5.2	75
36	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

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37	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
38	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.	3.3	68
39	Surface plasmon resonance enhancement of production of H ₂ from ammonia borane solution with tunable Cu ^x S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017, 31, 57-63.	8.2	65
40	Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO ₂ photocatalysts. <i>Chemical Communications</i> , 2008, , 4783.	2.2	63
41	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
42	Hybrid phase 1T/2H-MoS ₂ with controllable 1T concentration and its promoted hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 11908-11915.	2.8	62
43	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
44	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , 2016, 32, 12110-12118.	1.6	61
45	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
46	Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into Î³-valerolactone at ambient conditions. <i>Catalysis Today</i> , 2015, 258, 262-269.	2.2	59
47	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
48	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
49	Catalytic transfer hydrogenation of levulinate esters to Î³-valerolactone over supported ruthenium hydroxide catalysts. <i>RSC Advances</i> , 2014, 4, 45848-45855.	1.7	55
50	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
51	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO ₂ to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119628.	10.8	54
52	Overcoming Acidic H ₂ O ₂ /Fe(II/III) Redox-Induced Low H ₂ O ₂ Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis. <i>Environmental Science & Technology</i> , 2022, 56, 2617-2625.	4.6	54
53	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, 15746-15752.	1.7	52
54	Enhancement of Ag-Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Single-Site TiO ₂ Moieties within a Silica Framework. <i>Chemistry - A European Journal</i> , 2017, 23, 3616-3622.	1.7	51

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55	Hollow Mesoporous Organosilica Spheres Encapsulating PdAg Nanoparticles and Poly(Ethyleneimine) as Reusable Catalysts for CO ₂ Hydrogenation to Formate. ACS Catalysis, 2020, 10, 6356-6366.	5.5	51
56	Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212.	4.6	50
57	The fabrication of TiO ₂ supported on slag-made calcium silicate as low-cost photocatalyst with high adsorption ability for the degradation of dye pollutants in water. Catalysis Today, 2017, 281, 21-28.	2.2	49
58	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. Chemistry - an Asian Journal, 2018, 13, 1767-1779.	1.7	49
59	TiO ₂ photocatalyst loaded on hydrophobic Si ₃ N ₄ support for efficient degradation of organics diluted in water. Applied Catalysis A: General, 2008, 350, 164-168.	2.2	48
60	One-pot synthesis of molybdenum oxide nanoparticles encapsulated in hollow silica spheres: an efficient and reusable catalyst for epoxidation of olefins. Journal of Materials Chemistry A, 2017, 5, 18518-18526.	5.2	48
61	Enhancement in Adsorption and Catalytic Activity of Enzymes Immobilized on Phosphorus- and Calcium-Modified MCM-41. Journal of Physical Chemistry B, 2011, 115, 10335-10345.	1.2	47
62	Poly(ethyleneimine)-ethered Ir Complex Catalyst Immobilized in Titanate Nanotubes for Hydrogenation of CO ₂ to Formic Acid. ChemCatChem, 2017, 9, 1906-1914.	1.8	47
63	Plasmonic metal/Mo _x W _{1-x} O _{3-y} for visible-light-enhanced H ₂ production from ammonia borane. Journal of Materials Chemistry A, 2018, 6, 10932-10938.	5.2	47
64	Enhanced formic acid dehydrogenation by the synergistic alloying effect of PdCo catalysts supported on graphitic carbon nitride. International Journal of Hydrogen Energy, 2019, 44, 28483-28493.	3.8	46
65	Synthesis of zeolite from steel slag and its application as a support of nano-sized TiO ₂ photocatalyst. Journal of Materials Science, 2008, 43, 2407-2410.	1.7	44
66	Investigation of Size Sensitivity in the Hydrogen Production from Formic Acid over Carbon-Supported Pd Nanoparticles. ChemistrySelect, 2016, 1, 1879-1886.	0.7	44
67	Fabrication of Photocatalytic Paper Using TiO ₂ Nanoparticles Confined in Hollow Silica Capsules. Langmuir, 2017, 33, 288-295.	1.6	44
68	Some novel porous materials for selective catalytic oxidations. Materials Today, 2020, 32, 244-259.	8.3	44
69	PdAg Nanoparticles within Core-Shell Structured Zeolitic Imidazolate Framework as a Dual Catalyst for Formic Acid-based Hydrogen Storage/Production. Scientific Reports, 2019, 9, 15675.	1.6	43
70	Metal-organic framework-based nanomaterials for photocatalytic hydrogen peroxide production. Physical Chemistry Chemical Physics, 2020, 22, 14404-14414.	1.3	43
71	Plasmonic Ru/hydrogen molybdenum bronzes with tunable oxygen vacancies for light-driven reduction of <i>p</i> -nitrophenol. Journal of Materials Chemistry A, 2019, 7, 3783-3789.	5.2	41
72	Construction of Hybrid MoS ₂ Phase Coupled with SiC Heterojunctions with Promoted Photocatalytic Activity for 4-Nitrophenol Degradation. Langmuir, 2020, 36, 1174-1182.	1.6	41

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73	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
74	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
75	Defect Engineering of MoS ₂ 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
76	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.	5.2	39
77	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
78	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
79	Visible-light-driven hydrogen peroxide production from water and dioxygen by perylene-tetracarboxylic diimide modified titanium-based metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26371-26380.	5.2	38
80	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
81	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
82	CoO _x -decorated CeO ₂ heterostructures: effects of morphology on their catalytic properties in diesel soot combustion. <i>Nanoscale</i> , 2020, 12, 1779-1789.	2.8	37
83	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
84	Screening of Carbon-Supported PdAg Nanoparticles in the Hydrogen Production from Formic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7612-7620.	1.8	35
85	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
86	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.	2.2	35
87	A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO ₂ hydrogenation to methanol. <i>Chemical Science</i> , 2021, 12, 9902-9915.	3.7	35
88	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
89	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.	4.0	33
90	Waste-Slag Hydrocalumite and Derivatives as Heterogeneous Base Catalysts. <i>ChemSusChem</i> , 2012, 5, 1523-1532.	3.6	32

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91	Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H ₂ production. <i>Nanoscale</i> , 2016, 8, 7749-7754.	2.8	32
92	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO ₂ for aerobic alcohol oxidation. <i>Catalysis Today</i> , 2020, 352, 255-261.	2.2	32
93	Synthesis of a binary alloy nanoparticle catalyst with an immiscible combination of Rh and Cu assisted by hydrogen spillover on a TiO ₂ support. <i>Chemical Science</i> , 2020, 11, 4194-4203.	3.7	32
94	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
95	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
96	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
97	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
98	Plasmon-induced catalytic CO ₂ hydrogenation by a nano-sheet Pt/H _x MoO ₃ hybrid with abundant surface oxygen vacancies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13898-13907.	5.2	31
99	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.	5.2	31
100	Oxidation of Benzyl Alcohol over Nanoporous Au@CeO ₂ Catalysts Prepared from Amorphous Alloys and Effect of Alloying Au with Amorphous Alloys. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5599-5605.	1.8	30
101	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
102	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
103	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.	2.0	29
104	Manipulation of plasmon-induced hot electron transport in Pd/MoO _{3-x} @ZIF-8: Boosting the activity of Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119511.	10.8	29
105	How the Morphology of NiO _x -Decorated CeO ₂ Nanostructures Affects Catalytic Properties in CO ₂ Methanation. <i>Langmuir</i> , 2021, 37, 5376-5384.	1.6	28
106	Interconversion of Formate/Bicarbonate for Hydrogen Storage/Release: Improved Activity Following Sacrificial Surface Modification of a Ag@Pd/TiO ₂ Catalyst with a TiO _x Shell. <i>ACS Applied Energy Materials</i> , 2020, 3, 5819-5829.	2.5	27
107	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.	3.3	27
108	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

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109	Ru/H MoO ₃ - with plasmonic effect for boosting photothermal catalytic CO ₂ methanation. Applied Catalysis B: Environmental, 2022, 317, 121734.	10.8	27
110	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
111	Visible-Light-Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a Zirconium Phosphate Layered Matrix. ChemCatChem, 2015, 7, 3519-3525.	1.8	26
112	Pd-Cu Alloy Nanoparticles Confined within Mesoporous Hollow Carbon Spheres for the Hydrogenation of CO ₂ to Formate. Journal of Physical Chemistry C, 2021, 125, 3961-3971.	1.5	25
113	Catalytic Conversion of Levulinic Acid and Its Esters to Î ³ -Valerolactone over Silica-Supported Zirconia Catalysts. Bulletin of the Chemical Society of Japan, 2014, 87, 1252-1254.	2.0	24
114	Heterometallic and Hydrophobic Metal-Organic Frameworks as Durable Photocatalysts for Boosting Hydrogen Peroxide Production in a Two-Phase System. ACS Applied Energy Materials, 2021, 4, 4823-4830.	2.5	24
115	The ClO ₂ generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO ₄ photoanodes. Applied Catalysis B: Environmental, 2021, 296, 120387.	10.8	24
116	Activity, Recyclability, and Stability of Lipases Immobilized on Oil-Filled Spherical Silica Nanoparticles with Different Silica Shell Structures. ChemCatChem, 2013, 5, 2527-2536.	1.8	23
117	Phosphate Removal from Aqueous Solutions Using Calcium Silicate Hydrate Prepared from Blast Furnace Slag. ISIJ International, 2017, 57, 1657-1664.	0.6	23
118	Tailoring the Size and Shape of Colloidal Noble Metal Nanocrystals as a Valuable Tool in Catalysis. Catalysis Surveys From Asia, 2019, 23, 127-148.	1.0	23
119	Preparation of hydrophobically modified single-site Ti-containing mesoporous silica (TiSBA-15) and their enhanced catalytic performances. Catalysis Today, 2011, 175, 393-397.	2.2	22
120	Synthesis of Ca-based Layered Double Hydroxide from Blast Furnace Slag and Its Catalytic Applications. ISIJ International, 2015, 55, 1531-1537.	0.6	22
121	Enhancement of Catalytic Activity Over AuPd Nanoparticles Loaded Metal Organic Framework Under Visible Light Irradiation. Topics in Catalysis, 2016, 59, 1765-1771.	1.3	22
122	Removal of Phosphate from Aqueous Solution Using Layered Double Hydroxide Prepared from Waste Iron-Making Slag. Bulletin of the Chemical Society of Japan, 2016, 89, 472-480.	2.0	22
123	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
124	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. ACS Applied Energy Materials, 2020, 3, 5847-5855.	2.5	22
125	Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. Materials Advances, 2021, 2, 880-906.	2.6	22
126	Palladium Nanoparticles Encapsulated in Hollow Titanosilicate Spheres as an Ideal Nanoreactor for One-pot Oxidation. Chemistry - A European Journal, 2017, 23, 380-389.	1.7	21

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127	Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 165-233.	5.7	21
128	Defect Engineering of Pt/TiO ₂ Photocatalysts via Reduction Treatment Assisted by Hydrogen Spillover. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48669-48678.	4.0	21
129	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.	2.0	20
130	Hollow titanosilicate 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.	5.2	19
131	Photocatalytically-driven H ₂ production over Cu/TiO ₂ catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , 2021, 364, 182-189.	2.2	19
132	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
133	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.	4.6	18
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