Hiroki Miura

List of Publications by Year
in descending order

55	1,554	26	37
papers	citations	h-index	g-index
		218677	330143

65	65	65	1752
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Supported Palladiumâ€“Gold Alloy Catalysts for Efficient and Selective Hydrosilylation under Mild Conditions with Isolated Single Palladium Atoms in Alloy Nanoparticles as the Main Active Site. ACS Catalysis, 2017, 7, 1543-1553.	11.2	115
2	Elucidating strong metal-support interactions in Ptâ€“Sn/SiO2 catalyst and its consequences for dehydrogenation of lower alkanes. Journal of Catalysis, 2018, 365, 277-291.	6.2	84
3	Strong metal-support interaction between Pt and SiO₂ following high-temperature reduction: a catalytic interface for propane dehydrogenation. Chemical Communications, 2017, 53, 6937-6940.	4.1	61
4	Dehydrogenative synthesis of benzimidazoles under mild conditions with supported iridium catalysts. Catalysis Science and Technology, 2016, 6, 1677-1684.	4.1	59
5	Dynamic Behavior of Rh Species in Rh/Al₂O₃ Model Catalyst during Three-Way Catalytic Reaction: An <i>Operando</i> X-ray Absorption Spectroscopy Study. Journal of the American Chemical Society, 2018, 140, 176-184.	13.7	55
6	Recyclable Solid Ruthenium Catalysts for the Direct Arylation of Aromatic Cï£¿H Bonds. Chemistry - A European Journal, 2010, 16, 4186-4189.	3.3	53
7	Experimental and Theoretical Investigation of the Role of Bismuth in Promoting the Selective Oxidation of Glycerol over Supported Ptâ€“Bi Catalyst under Mild Conditions. ACS Catalysis, 2020, 10, 6071-6083.	11.2	50
8	Dehydrogenation of Propane over Silicaâ€Supported Platinumâ€“Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. ChemCatChem, 2014, 6, 2680-2691.	3.7	49
9	Recyclable Solid Ruthenium Catalysts Supported on Metal Oxides for the Addition of Carboxylic Acids to Terminal Alkynes. Advanced Synthesis and Catalysis, 2010, 352, 3045-3052.	4.3	44
10	Active Ruthenium Catalysts Based on Phosphine-Modified Ru/CeO₂ for the Selective Addition of Carboxylic Acids to Terminal Alkynes. ACS Catalysis, 2012, 2, 1753-1759.	11.2	41
11	Selective hydrogenolysis of tetrahydrofurfuryl alcohol on Pt/WO 3 /ZrO 2 catalysts: Effect of WO 3 loading amount on activity. Catalysis Today, 2018, 303, 207-212.	4.4	40
12	Carboxylate-Directed Addition of Aromatic Câ€“H Bond to Aromatic Aldehydes under Ruthenium Catalysis. ACS Catalysis, 2018, 8, 6246-6254.	11.2	39
13	Intermolecular [2+2+1] Carbonylative Cycloaddition of Aldehydes with Alkynes, and Subsequent Oxidation to Î³â€Hydroxybutenolides by a Supported Ruthenium Catalyst. Angewandte Chemie - International Edition, 2016, 55, 278-282.	13.8	38
14	A heterogeneous Ru/CeO2 catalyst effective for transfer-allylation from homoallyl alcohols to aldehydes. Chemical Communications, 2009, , 4112.	4.1	37
15	Highly Efficient Supported Palladiumâ€“Gold Alloy Catalysts for Hydrogen Storage Based on Ammonium Bicarbonate/Formate Redox Cycle. ACS Sustainable Chemistry and Engineering, 2019, 7, 6522-6530.	6.7	37
16	Catalysis of Cu Cluster for NO Reduction by CO: Theoretical Insight into the Reaction Mechanism. ACS Omega, 2019, 4, 2596-2609.	3.5	36
17	Rutheniumâ€Catalyzed Intermolecular Hydroacylation of Internal Alkynes: The Use of Ceriaâ€Supported Catalyst Facilitates the Catalyst Recycling. Chemistry - A European Journal, 2013, 19, 861-864.	3.3	35
18	Iridiumâ€Catalyzed [2+2+2] Cycloaddition of Î±,Ï‰â€Diynes with Cyanamides. Advanced Synthesis and Catalysis, 2015, 357, 3901-3916.	4.3	35

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19	Concerted Catalysis by Adjacent Palladium and Gold in Alloy Nanoparticles for the Versatile and Practical [2+2+2] Cycloaddition of Alkynes. Angewandte Chemie - International Edition, 2018, 57, 6136-6140.	13.8	35
20	Ruthenium-Catalyzed Addition of Aromatic Amides to Internal Alkynes and Subsequent Intramolecular Cyclization for the Atom-Economical Synthesis of Isoindolinones. Journal of Organic Chemistry, 2017, 82, 1231-1239.	3.2	32
21	Ceria-supported ruthenium catalysts for the synthesis of indole via dehydrogenative N-heterocyclization. Catalysis Science and Technology, 2011, 1, 1340.	4.1	31
22	Coupling of carboxylic acids with internal alkynes by supported ruthenium catalysts: direct and selective syntheses of multi-substituted phthalide derivatives. Chemical Communications, 2015, 51, 1654-1657.	4.1	31
23	Ag Size/Structure-Dependent Effect on Low-Temperature Selective Catalytic Oxidation of NH₃ over Ag/MnO₂. ACS Catalysis, 2021, 11, 8576-8584.	11.2	31
24	Selective catalytic oxidation of ammonia to nitrogen over zeolite-supported Pt-Au catalysts: Effects of alloy formation and acid sites. Journal of Catalysis, 2021, 402, 101-113.	6.2	30
25	Investigation of the mechanism of the selective hydrogenolysis of C O bonds over a Pt/WO3/Al2O3 catalyst. Catalysis Today, 2020, 352, 73-79.	4.4	29
26	Catalytic Addition of Aromatic Cï£¿H Bonds to Vinylsilanes in the Presence of Ru/CeO₂. ChemCatChem, 2010, 2, 1223-1225.	3.7	28
27	Highly Active and Stable Ptâ€"Sn/SBA-15 Catalyst Prepared by Direct Reduction for Ethylbenzene Dehydrogenation: Effects of Sn Addition. Industrial & Engineering Chemistry Research, 2017, 56, 7160-7172.	3.7	28
28	Metalâ€"support cooperation in Al(PO3)3-supported platinum nanoparticles for the selective hydrogenolysis of phenols to arenes. Nature Catalysis, 2021, 4, 312-321.	34.4	28
29	Effect of WO₃Loading on the Activity of Pt/WO₃/Al₂O₃Catalysts in Selective Hydrogenolysis of Glycerol to 1,3-Propanediol. Chemistry Letters, 2017, 46, 1497-1500.	1.3	24
30	One-pot synthesis of lactic acid from glycerol over a Pt/L-Nb2O5 catalyst under base-free conditions. Fuel Processing Technology, 2020, 197, 106202.	7.2	24
31	Intermolecular Coupling of Alkynes with Acrylates by Recyclable Oxideâ€Supported Ruthenium Catalysts: Formation of Distorted Ruthenium(IV)â€oxo Species on Ceria as a Key Precursor of Active Species. Advanced Synthesis and Catalysis, 2011, 353, 2837-2843.	4.3	23
32	Concerted Functions of Surface Acidâ€"Base Pairs and Supported Copper Catalysts for Dehydrogenative Synthesis of Esters from Primary Alcohols. ACS Omega, 2017, 2, 6167-6173.	3.5	21
33	Hydrosilylation of Allenes Over Palladiumâ€"Gold Alloy Catalysts: Enhancing Activity and Switching Selectivity by the Incorporation of Palladium into Gold Nanoparticles. European Journal of Organic Chemistry, 2018, 2018, 1858-1862.	2.4	21
34	Effect of perimeter interface length between 2D WO₃ monolayer domain and Î³-Al₂O₃ on selective hydrogenolysis of glycerol to 1,3-propanediol. Catalysis Science and Technology, 2019, 9, 5359-5367.	4.1	18
35	Quantitative Evaluation of the Effect of the Hydrophobicity of the Environment Surrounding BrÃ¸nsted Acid Sites on Their Catalytic Activity for the Hydrolysis of Organic Molecules. Journal of the American Chemical Society, 2019, 141, 1636-1645.	13.7	18
36	Practical Synthesis of Allyl, Allenyl, and Benzyl Boronates through S_N1â€²-Type Borylation under Heterogeneous Gold Catalysis. ACS Catalysis, 2021, 11, 758-766.	11.2	17

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37	Development of Ceria-supported Ruthenium Catalysts for Green Organic Transformation Processes. Journal of the Japan Petroleum Institute, 2013, 56, 69-79.	0.6	16
38	Highly Selective Linear Dimerization of Styrenes by Ceriaâ€Supported Ruthenium Catalysts. ChemCatChem, 2012, 4, 2062-2067.	3.7	15
39	Stereoselective synthesis of either (E)- or (Z)-silyl enol ether from the same acyclic Î±,Î²-unsaturated ketone using cationic rhodium complex-catalyzed 1,4-hydrosilylation. Tetrahedron Letters, 2014, 55, 310-313.	1.4	15
40	Understanding the Distinct Effects of Ag Nanoparticles and Highly Dispersed Ag Species on N₂ Selectivity in NH₃â€“SCO Reaction. ACS Catalysis, 2022, 12, 6108-6118.	11.2	15
41	The importance of direct reduction in the synthesis of highly active Ptâ€“Sn/SBA-15 for <i>n</i>-butane dehydrogenation. Catalysis Science and Technology, 2019, 9, 947-956.	4.1	14
42	BrÃ¸nsted acid property of alumina-based mixed-oxides-supported tungsten oxide. Catalysis Today, 2021, 375, 64-69.	4.4	14
43	Silylation of Aryl Chlorides by Bimetallic Catalysis of Palladium and Gold on Alloy Nanoparticles. Advanced Synthesis and Catalysis, 2020, 362, 2642-2650.	4.3	13
44	Importance of the Pd and Surrounding Sites in Hydrosilylation of Internal Alkynes by Palladiumâ€“Gold Alloy Catalyst. Organometallics, 2020, 39, 528-537.	2.3	10
45	Direct Air Capture of CO₂ Using a Liquid Amineâ€“Solid Carbamic Acid Phase-Separation System Using Diamines Bearing an Aminocyclohexyl Group. ACS Environmental Au, 2022, 2, 354-362.	7.0	10
46	Concerted Catalysis by Adjacent Palladium and Gold in Alloy Nanoparticles for the Versatile and Practical [2+2+2] Cycloaddition of Alkynes. Angewandte Chemie, 2018, 130, 6244-6248.	2.0	8
47	Rutheniumâ€Catalyzed Synthesis of Isoindolinones via Amideâ€Directed Addition of Aromatic Câ€H Bonds to Aldimines. European Journal of Organic Chemistry, 2019, 2019, 2807-2811.	2.4	8
48	Highly active and durable WO₃/Al₂O₃catalysts for gas-phase dehydration of polyols. RSC Advances, 2020, 10, 37538-37544.	3.6	8
49	Concerted Catalysis of Pd and Au on Alloy Nanoparticles for Efficient Heterogeneous Molecular Transformations. Chemistry Letters, 2021, 50, 346-352.	1.3	7
50	Phosphine-stabilized, oxide-supported rhodium catalysts for highly efficient silylative coupling reactions. Research on Chemical Intermediates, 2015, 41, 9575-9586.	2.7	6
51	Deposition of highly dispersed gold nanoparticles onto metal phosphates by depositionâ€“precipitation with aqueous ammonia. Catalysis Science and Technology, 2021, 11, 7141-7150.	4.1	5
52	Electrophilic C(sp²)âˆ’H Silylation by Supported Gold Catalysts. ChemCatChem, 2021, 13, 4705-4713.	3.7	5
53	Reductive Cycloisomerization of Diynes by Supported Palladium Catalysts and Subsequent [4+2] Cycloaddition for Oneâ€Pot Synthesis of Cyclohexenes. ChemCatChem, 2020, 12, 455-458.	3.7	1
54	Gold-catalyzed thioetherification of allyl, benzyl, and propargyl phosphates. Catalysis Science and Technology, 0, , .	4.1	1

#	Article	IF	Citations
55	Front Cover Picture: Silylation of Aryl Chlorides by Bimetallic Catalysis of Palladium and Gold on Alloy Nanoparticles (Adv. Synth. Catal. 13/2020). Advanced Synthesis and Catalysis, 2020, 362, 2551-2551.	4.3	0