Takato Mitsudome

List of Publications by Year in Descending Order

99 papers	4,153 citations	33 h-index	63 g-index
106 ext. papers	4,614 ext. citations	7 avg, IF	5.52 L-index

#	Paper	IF	Citations
99	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst.. *Jacs Au*, **2022**, 2, 665-672		3
98	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6347-6354	8.3	3
97	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. *Jacs Au*, **2021**, 1, 501-507		7
96	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. *Scientific Reports*, **2021**, 11, 10673	4.9	2
95	Efficient D-Xylose Hydrogenation to D-Xylitol over a Hydrotalcite-Supported Nickel Phosphide Nanoparticle Catalyst. *European Journal of Inorganic Chemistry*, **2021**, 2021, 3327-3331	2.3	2
94	H2-Free Selective Dehydroxymethylation of Primary Alcohols over Palladium Nanoparticle Catalysts. *ChemCatChem*, **2021**, 13, 1135-1139	5.2	0
93	Ni P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: P-Alloying Strategy for Designing Smart Catalysts. *Chemistry - A European Journal*, **2021**, 27, 4439-4446	4.8	8
92	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. *ACS Catalysis*, **2021**, 11, 750-757	13.1	20
91	A copper nitride catalyst for the efficient hydroxylation of aryl halides under ligand-free conditions. *Organic and Biomolecular Chemistry*, **2021**, 19, 6593-6597	3.9	2
90	Hydrotalcite-Supported Cobalt Phosphide Nanorods as a Highly Active and Reusable Heterogeneous Catalyst for Ammonia-Free Selective Hydrogenation of Nitriles to Primary Amines. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11238-11246	8.3	2
89	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of D-glucose to D-sorbitol. *Green Chemistry*, **2021**, 23, 2010-2016	10	11
88	Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate: Synchrotron Radiation Sheds Light on the Cu Cycle Mechanism. *ACS Catalysis*, **2020**, 10, 5909-5919	13.1	4
87	A cobalt phosphide catalyst for the hydrogenation of nitriles. *Chemical Science*, **2020**, 11, 6682-6689	9.4	28
86	Unique Catalysis of Nickel Phosphide Nanoparticles to Promote the Selective Transformation of Biofuranic Aldehydes into Diketones in Water. *ACS Catalysis*, **2020**, 10, 4261-4267	13.1	33
85	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H pressure. *Organic and Biomolecular Chemistry*, **2020**, 18, 8827-8833	3.9	9
84	Air-stable and reusable cobalt ion-doped titanium oxide catalyst for alkene hydrosilylation. *Green Chemistry*, **2019**, 21, 4566-4570	10	8
83	XAS Analysis of Reactions of (Arylimido)vanadium(V) Dichloride Complexes Containing Anionic NHC That Contains a Weakly Coordinating B(CF) Moiety (WCA-NHC) or Phenoxide Ligands with Al Alkyls: A Potential Ethylene Polymerization Catalyst with WCA-NHC Ligands. *ACS Omega*, **2019**, 4, 18833-18845	3.9	21

82	Solution XAS Analysis for Exploring Active Species in Syndiospecific Styrene Polymerization and 1-Hexene Polymerization Using Half-Titanocene/MAO Catalysts: Significant Changes in the Oxidation State in the Presence of Styrene. *Organometallics*, **2019**, 38, 4497-4507	3.8	11
81	Efficient Synthesis of Benzofurans via Cross-Coupling of Catechols with Hydroxycoumarins Using O2 as an Oxidant Catalyzed by AlPO4-Supported Rh Nanoparticle. *ChemistrySelect*, **2019**, 4, 11394-11397	1.8	3
80	Direct observation of catalytically active species in reaction solution by X-ray absorption spectroscopy (XAS). *Japanese Journal of Applied Physics*, **2019**, 58, 100502	1.4	4
79	Solution XAS Analysis for Exploring the Active Species in Homogeneous Vanadium Complex Catalysis. *Journal of the Physical Society of Japan*, **2018**, 87, 061014	1.5	13
78	Solution XAS Analysis of Various (Imido)vanadium(V) Dichloride Complexes Containing Monodentate Anionic Ancillary Donor Ligands: Effect of Aluminium Cocatalyst in Ethylene/Norbornene (Co)polymerization. *Journal of the Japan Petroleum Institute*, **2018**, 61, 282-287	1	9
77	Oxidative cross-coupling reaction of catechols with active methylene compounds in an aqueous medium using an AlPO4-supported Ru catalyst. *Catalysis Science and Technology*, **2018**, 8, 5401-5405	5.5	3
76	Mechanistic Insights on Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate. *ACS Catalysis*, **2018**, 8, 5827-5841	13.1	9
75	Synthesis of (Adamantylimido)vanadium(V) Dimethyl Complex Containing (2-Anilidomethyl)pyridine Ligand and Selected Reactions: Exploring the Oxidation State of the Catalytically Active Species in Ethylene Dimerization. *Organometallics*, **2017**, 36, 530-542	3.8	26
74	Effective management of polyethers through depolymerization to symmetric and unsymmetric glycol diesters using a proton-exchanged montmorillonite catalyst. *Green Chemistry*, **2017**, 19, 2612-2619	10	6
73	A Titanium Dioxide Supported Gold Nanoparticle Catalyst for the Selective N-Formylation of Functionalized Amines with Carbon Dioxide and Hydrogen. *ChemCatChem*, **2017**, 9, 3632-3636	5.2	34
72	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. *Scientific Reports*, **2017**, 7, 14007	4.9	10
71	Effect of Al Cocatalyst in Ethylene and Ethylene/Norbornene (Co)polymerization by (Imido)vanadium Dichloride Complexes Containing Anionic N-Heterocyclic Carbenes Having Weakly Coordinating Borate Moiety. *Journal of the Japan Petroleum Institute*, **2017**, 60, 256-262	1	28
70	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. *Angewandte Chemie*, **2017**, 129, 9509-9513	3.6	15
69	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. *Angewandte Chemie - International Edition*, **2017**, 56, 9381-9385	16.4	58
68	A dual-functional heterogeneous ruthenium catalyst for the green one-pot synthesis of biphenols. *Catalysis Science and Technology*, **2017**, 7, 3205-3209	5.5	4
67	Metal-Support Cooperative Catalysts for Environmentally Benign Molecular Transformations. *Chemical Record*, **2017**, 17, 4-26	6.6	18
66	Synthesis and Structural Analysis of (Imido)vanadium Dichloride Complexes Containing 2-(2,6-Benz-imidazolyl)pyridine Ligands: Effect of Al Cocatalyst for Efficient Ethylene (Co)polymerization. *ACS Omega*, **2017**, 2, 8660-8673	3.9	21
65	On-demand Hydrogen Production from Organosilanes at Ambient Temperature Using Heterogeneous Gold Catalysts. *Scientific Reports*, **2016**, 6, 37682	4.9	8

64	Synthesis of tetraline derivatives through depolymerization of polyethers with aromatic compounds using a heterogeneous titanium-exchanged montmorillonite catalyst. *RSC Advances*, **2016**, 6, 89231-89233	3.7	3
63	One-Pot Transformation of Levulinic Acid to 2-Methyltetrahydrofuran Catalyzed by Pt-Mo/H-β in Water. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 682-685	8.3	59
62	Green, Multi-Gram One-Step Synthesis of Core-Shell Nanocomposites in Water and Their Catalytic Application to Chemoselective Hydrogenations. *Chemistry - A European Journal*, **2016**, 22, 17962-17966	4.8	13
61	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton-exchanged Montmorillonite Catalyst. *ChemistrySelect*, **2016**, 1, 201-204	1.8	2
60	One-step Synthesis of Core-Gold/Shell-Ceria Nanomaterial and Its Catalysis for Highly Selective Semihydrogenation of Alkynes. *Journal of the American Chemical Society*, **2015**, 137, 13452-5	16.4	154
59	O2-enhanced Catalytic Activity of Gold Nanoparticles in Selective Oxidation of Hydrosilanes to Silanols. *Chemistry Letters*, **2015**, 44, 1062-1064	1.7	15
58	Highly efficient dehydrogenative coupling of hydrosilanes with amines or amides using supported gold nanoparticles. *Chemistry - A European Journal*, **2015**, 21, 3202-5	4.8	16
57	Selective C-C coupling reaction of dimethylphenol to tetramethyldiphenoquinone using molecular oxygen catalyzed by Cu complexes immobilized in nanospaces of structurally-ordered materials. *Molecules*, **2015**, 20, 3089-106	4.8	4
56	Hydrogenation of sulfoxides to sulfides under mild conditions using ruthenium nanoparticle catalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 8348-51	16.4	40
55	Direct Transformation of Furfural to 1,2-Pentanediol Using a Hydrotalcite-Supported Platinum Nanoparticle Catalyst. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2243-2247	8.3	107
54	Highly Efficient Deoxygenation of Sulfoxides Using Hydroxyapatite-supported Ruthenium Nanoparticles. *Chemistry Letters*, **2014**, 43, 420-422	1.7	15
53	Hydrogenation of Sulfoxides to Sulfides under Mild Conditions Using Ruthenium Nanoparticle Catalysts. *Angewandte Chemie*, **2014**, 126, 8488-8491	3.6	11
52	Highly atom-efficient and chemoselective reduction of ketones in the presence of aldehydes using heterogeneous catalysts. *Green Chemistry*, **2013**, 15, 2695	10	9
51	Gold nanoparticle catalysts for selective hydrogenations. *Green Chemistry*, **2013**, 15, 2636	10	223
50	Regioselective oxidative coupling of 2,6-dimethylphenol to tetramethyldiphenoquinone using polyamine dendrimer-encapsulated Cu catalysts. *RSC Advances*, **2013**, 3, 9662	3.7	5
49	Oxidation of Alcohols Using Nanocatalysts **2013**, 287-331		8
48	Highly efficient etherification of silanes by using a gold nanoparticle catalyst: remarkable effect of O(2). *Chemistry - A European Journal*, **2013**, 19, 14398-402	4.8	26
47	Gold nanoparticle-catalyzed cyclocarbonylation of 2-aminophenols. *Green Chemistry*, **2013**, 15, 608	10	19

46	Metall□igand Core□Shell Nanocomposite Catalysts for the Selective Semihydrogenation of Alkynes. *Angewandte Chemie*, **2013**, 125, 1521-1525	3.6	21
45	Metal-ligand core-shell nanocomposite catalysts for the selective semihydrogenation of alkynes. *Angewandte Chemie - International Edition*, **2013**, 52, 1481-5	16.4	125
44	Advanced Core□Shell Nanoparticle Catalysts for Efficient Organic Transformations. *ChemCatChem*, **2013**, 5, 1681-1691	5.2	43
43	Highly atom-efficient oxidation of electron-deficient internal olefins to ketones using a palladium catalyst. *Angewandte Chemie - International Edition*, **2013**, 52, 5961-4	16.4	40
42	Simple and Efficient 1,3-Isomerization of Allylic Alcohols using a Supported Monomeric Vanadium-Oxide Catalyst. *ChemCatChem*, **2013**, 5, 2879-2882	5.2	1
41	Highly Atom-Efficient Oxidation of Electron-Deficient Internal Olefins to Ketones Using a Palladium Catalyst. *Angewandte Chemie*, **2013**, 125, 6077-6080	3.6	19
40	Core-shell AgNP@CeO2 nanocomposite catalyst for highly chemoselective reductions of unsaturated aldehydes. *Chemistry - A European Journal*, **2013**, 19, 5255-8	4.8	49
39	Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propylene imine)]□Shell [Poly(benzyl ether)] Hybrid Dendrimers. *Chemistry Letters*, **2013**, 42, 313-315	1.7	
38	Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from Cu□Al Hydrotalcite. *Chemistry Letters*, **2013**, 42, 729-731	1.7	19
37	Remarkable Effect of Bases on Core□Shell AgNP@CeO2 Nanocomposite-catalyzed Highly Chemoselective Reduction of Unsaturated Aldehydes. *Chemistry Letters*, **2013**, 42, 660-662	1.7	12
36	Design of a Silver□Cerium Dioxide Core□Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions. *Angewandte Chemie*, **2012**, 124, 140-143	3.6	27
35	R□cktitelbild: Design of a Silver□Cerium Dioxide Core□Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. 1/2012). *Angewandte Chemie*, **2012**, 124, 284-284	3.6	1
34	Design of a silver-cerium dioxide core-shell nanocomposite catalyst for chemoselective reduction reactions. *Angewandte Chemie - International Edition*, **2012**, 51, 136-9	16.4	230
33	Back Cover: Design of a Silver□Cerium Dioxide Core□Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. Int. Ed. 1/2012). *Angewandte Chemie - International Edition*, **2012**, 51, 278-278	16.4	2
32	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Catalyzed by Pt Nanoparticles□AlOx/WO3. *Chemistry Letters*, **2012**, 41, 1720-1722	1.7	52
31	Novel Catalysis in the Internal Nanocavity of Polyamine Dendrimer for Intramolecular Michael Reaction. *Chemistry Letters*, **2012**, 41, 801-803	1.7	6
30	Highly efficient double-carbonylation of amines to oxamides using gold nanoparticle catalysts. *Chemical Communications*, **2012**, 48, 11733-5	5.8	16
29	Direct synthesis of unsymmetrical ethers from alcohols catalyzed by titanium cation-exchanged montmorillonite. *Green Chemistry*, **2012**, 14, 610	10	31

28	Selective Deoxygenation of Epoxides to Alkenes with Molecular Hydrogen Using a Hydrotalcite-Supported Gold Catalyst: A Concerted Effect between Gold Nanoparticles and Basic Sites on a Support. *Angewandte Chemie*, **2011**, 123, 3042-3045	3.6	17
27	Highly efficient gold nanoparticle catalyzed deoxygenation of amides, sulfoxides, and pyridine N-oxides. *Chemistry - A European Journal*, **2011**, 17, 1768-72	4.8	86
26	Rhodium-grafted hydrotalcite catalyst for heterogeneous 1,4-addition reaction of organoboron reagents to electron deficient olefins. *Green Chemistry*, **2011**, 13, 2416	10	19
25	Creation of a high-valent manganese species on hydrotalcite and its application to the catalytic aerobic oxidation of alcohols. *Green Chemistry*, **2010**, 12, 2142	10	21
24	Wacker-type oxidation of internal olefins using a PdCl2/N,N-dimethylacetamide catalyst system under copper-free reaction conditions. *Angewandte Chemie - International Edition*, **2010**, 49, 1238-40	16.4	71
23	Room-temperature deoxygenation of epoxides with CO catalyzed by hydrotalcite-supported gold nanoparticles in water. *Chemistry - A European Journal*, **2010**, 16, 11818-21	4.8	45
22	Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions. *Angewandte Chemie*, **2010**, 122, 1260-1262	3.6	33
21	Titelbild: Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. 7/2010). *Angewandte Chemie*, **2010**, 122, 1189-1189	3.6	
20	Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes. *Angewandte Chemie*, **2010**, 122, 5677-5680	3.6	34
19	Innentitelbild: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. 32/2010). *Angewandte Chemie*, **2010**, 122, 5518-5518	3.6	
18	Cover Picture: Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. Int. Ed. 7/2010). *Angewandte Chemie - International Edition*, **2010**, 49, 1169-1169	16.4	
17	Supported gold and silver nanoparticles for catalytic deoxygenation of epoxides into alkenes. *Angewandte Chemie - International Edition*, **2010**, 49, 5545-8	16.4	107
16	Inside Cover: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. Int. Ed. 32/2010). *Angewandte Chemie - International Edition*, **2010**, 49, 5390-5390	16.4	1
15	Efficient Aerobic Oxidation of Alcohols using a Hydrotalcite-Supported Gold Nanoparticle Catalyst. *Advanced Synthesis and Catalysis*, **2009**, 351, 1890-1896	5.6	178
14	Supported silver nanoparticle catalyst for selective hydration of nitriles to amides in water. *Chemical Communications*, **2009**, 3258-60	5.8	155
13	Supported gold nanoparticles as a reusable catalyst for synthesis of lactones from diols using molecular oxygen as an oxidant under mild conditions. *Green Chemistry*, **2009**, 11, 793	10	111
12	Supported gold nanoparticle catalyst for the selective oxidation of silanes to silanols in water. *Chemical Communications*, **2009**, 5302-4	5.8	125
11	Copper nanoparticles on hydrotalcite as a heterogeneous catalyst for oxidant-free dehydrogenation of alcohols. *Chemical Communications*, **2008**, 4804-6	5.8	158

10	Oxidant-free alcohol dehydrogenation using a reusable hydrotalcite-supported silver nanoparticle catalyst. *Angewandte Chemie - International Edition*, **2008**, 47, 138-41	16.4	239
9	Supported silver-nanoparticle-catalyzed highly efficient aqueous oxidation of phenylsilanes to silanols. *Angewandte Chemie - International Edition*, **2008**, 47, 7938-40	16.4	160
8	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst. *Angewandte Chemie*, **2008**, 120, 144-147	3.6	95
7	Supported Silver-Nanoparticle-Catalyzed Highly Efficient Aqueous Oxidation of Phenylsilanes to Silanols. *Angewandte Chemie*, **2008**, 120, 8056-8058	3.6	77
6	Montmorillonite-entrapped sub-nanoordered Pd clusters as a heterogeneous catalyst for allylic substitution reactions. *Angewandte Chemie - International Edition*, **2007**, 46, 3288-90	16.4	71
5	Montmorillonite-Entrapped Sub-nanoordered Pd Clusters as a Heterogeneous Catalyst for Allylic Substitution Reactions. *Angewandte Chemie*, **2007**, 119, 3352-3354	3.6	24
4	Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated □Fe2O3 nanocrystallites for highly efficient dehalogenation with molecular hydrogen. *Green Chemistry*, **2007**, 9, 1246	10	119
3	Convenient and efficient Pd-catalyzed regioselective oxyfunctionalization of terminal olefins by using molecular oxygen as sole reoxidant. *Angewandte Chemie - International Edition*, **2006**, 45, 481-5	16.4	225
2	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. *Angewandte Chemie*, **2006**, 118, 495-499	3.6	65
1	Design of Well-Defined Active Sites on Crystalline Materials for Liquid-Phase Oxidations157-183		3