

# Takato Mitsudome

## List of Publications by Citations

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

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	Oxidant-free alcohol dehydrogenation using a reusable hydrotalcite-supported silver nanoparticle catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 138-41	16.4	239
98	Design of a silver-cerium dioxide core-shell nanocomposite catalyst for chemoselective reduction reactions. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 136-9	16.4	230
97	Convenient and efficient Pd-catalyzed regioselective oxyfunctionalization of terminal olefins by using molecular oxygen as sole reoxidant. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 481-5	16.4	225
96	Gold nanoparticle catalysts for selective hydrogenations. <i>Green Chemistry</i> , <b>2013</b> , 15, 2636	10	223
95	Efficient Aerobic Oxidation of Alcohols using a Hydrotalcite-Supported Gold Nanoparticle Catalyst. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 1890-1896	5.6	178
94	Supported silver-nanoparticle-catalyzed highly efficient aqueous oxidation of phenylsilanes to silanols. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7938-40	16.4	160
93	Copper nanoparticles on hydrotalcite as a heterogeneous catalyst for oxidant-free dehydrogenation of alcohols. <i>Chemical Communications</i> , <b>2008</b> , 4804-6	5.8	158
92	Supported silver nanoparticle catalyst for selective hydration of nitriles to amides in water. <i>Chemical Communications</i> , <b>2009</b> , 3258-60	5.8	155
91	One-step Synthesis of Core-Gold/Shell-Ceria Nanomaterial and Its Catalysis for Highly Selective Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13452-5	16.4	154
90	Metal-ligand core-shell nanocomposite catalysts for the selective semihydrogenation of alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1481-5	16.4	125
89	Supported gold nanoparticle catalyst for the selective oxidation of silanes to silanols in water. <i>Chemical Communications</i> , <b>2009</b> , 5302-4	5.8	125
88	Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated [Fe <sub>2</sub> O <sub>3</sub> ] nanocrystallites for highly efficient dehalogenation with molecular hydrogen. <i>Green Chemistry</i> , <b>2007</b> , 9, 1246	10	119
87	Supported gold nanoparticles as a reusable catalyst for synthesis of lactones from diols using molecular oxygen as an oxidant under mild conditions. <i>Green Chemistry</i> , <b>2009</b> , 11, 793	10	111
86	Direct Transformation of Furfural to 1,2-Pentanediol Using a Hydrotalcite-Supported Platinum Nanoparticle Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2243-2247	8.3	107
85	Supported gold and silver nanoparticles for catalytic deoxygenation of epoxides into alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5545-8	16.4	107
84	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 144-147	3.6	95
83	Highly efficient gold nanoparticle catalyzed deoxygenation of amides, sulfoxides, and pyridine N-oxides. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 1768-72	4.8	86

82	Supported Silver-Nanoparticle-Catalyzed Highly Efficient Aqueous Oxidation of Phenylsilanes to Silanols. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 8056-8058	3.6	77
81	Wacker-type oxidation of internal olefins using a PdCl <sub>2</sub> /N,N-dimethylacetamide catalyst system under copper-free reaction conditions. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1238-40	16.4	71
80	Montmorillonite-entrapped sub-nanoordered Pd clusters as a heterogeneous catalyst for allylic substitution reactions. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3288-90	16.4	71
79	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 495-499	3.6	65
78	One-Pot Transformation of Levulinic Acid to 2-Methyltetrahydrofuran Catalyzed by PtMo/H-In Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 682-685	8.3	59
77	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9381-9385	16.4	58
76	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Catalyzed by Pt Nanoparticles@AlO <sub>x</sub> /WO <sub>3</sub> . <i>Chemistry Letters</i> , <b>2012</b> , 41, 1720-1722	1.7	52
75	Core-shell AgNP@CeO <sub>2</sub> nanocomposite catalyst for highly chemoselective reductions of unsaturated aldehydes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 5255-8	4.8	49
74	Room-temperature deoxygenation of epoxides with CO catalyzed by hydrotalcite-supported gold nanoparticles in water. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 11818-21	4.8	45
73	Advanced CoreShell Nanoparticle Catalysts for Efficient Organic Transformations. <i>ChemCatChem</i> , <b>2013</b> , 5, 1681-1691	5.2	43
72	Hydrogenation of sulfoxides to sulfides under mild conditions using ruthenium nanoparticle catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8348-51	16.4	40
71	Highly atom-efficient oxidation of electron-deficient internal olefins to ketones using a palladium catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5961-4	16.4	40
70	A Titanium Dioxide Supported Gold Nanoparticle Catalyst for the Selective N-Formylation of Functionalized Amines with Carbon Dioxide and Hydrogen. <i>ChemCatChem</i> , <b>2017</b> , 9, 3632-3636	5.2	34
69	Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 5677-5680	3.6	34
68	Unique Catalysis of Nickel Phosphide Nanoparticles to Promote the Selective Transformation of Biofuranic Aldehydes into Diketones in Water. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4261-4267	13.1	33
67	Wacker-Type Oxidation of Internal Olefins Using a PdCl <sub>2</sub> /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1260-1262	3.6	33
66	Direct synthesis of unsymmetrical ethers from alcohols catalyzed by titanium cation-exchanged montmorillonite. <i>Green Chemistry</i> , <b>2012</b> , 14, 610	10	31
65	A cobalt phosphide catalyst for the hydrogenation of nitriles. <i>Chemical Science</i> , <b>2020</b> , 11, 6682-6689	9.4	28

64	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. <i>Journal of the Japan Petroleum Institute</i> , <b>2017</b> , 60, 256-262	1	28
63	Design of a Silver/ Cerium Dioxide Core/Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 140-143	3.6	27
62	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. <i>Organometallics</i> , <b>2017</b> , 36, 530-542	3.8	26
61	Highly efficient etherification of silanes by using a gold nanoparticle catalyst: remarkable effect of O(2). <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 14398-402	4.8	26
60	Montmorillonite-Entrapped Sub-nanoordered Pd Clusters as a Heterogeneous Catalyst for Allylic Substitution Reactions. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 3352-3354	3.6	24
59	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. <i>ACS Omega</i> , <b>2019</b> , 4, 18833-18845	3.9	21
58	Metal/Ligand Core/Shell Nanocomposite Catalysts for the Selective Semihydrogenation of Alkynes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1521-1525	3.6	21
57	Synthesis and Structural Analysis of (Imido)vanadium Dichloride Complexes Containing 2-(2-Benzimidazolyl)pyridine Ligands: Effect of Al Cocatalyst for Efficient Ethylene (Co)polymerization. <i>ACS Omega</i> , <b>2017</b> , 2, 8660-8673	3.9	21
56	Creation of a high-valent manganese species on hydrotalcite and its application to the catalytic aerobic oxidation of alcohols. <i>Green Chemistry</i> , <b>2010</b> , 12, 2142	10	21
55	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. <i>ACS Catalysis</i> , <b>2021</b> , 11, 750-757	13.1	20
54	Gold nanoparticle-catalyzed cyclocarbonylation of 2-aminophenols. <i>Green Chemistry</i> , <b>2013</b> , 15, 608	10	19
53	Highly Atom-Efficient Oxidation of Electron-Deficient Internal Olefins to Ketones Using a Palladium Catalyst. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6077-6080	3.6	19
52	Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from Cu/Al Hydrotalcite. <i>Chemistry Letters</i> , <b>2013</b> , 42, 729-731	1.7	19
51	Rhodium-grafted hydrotalcite catalyst for heterogeneous 1,4-addition reaction of organoboron reagents to electron deficient olefins. <i>Green Chemistry</i> , <b>2011</b> , 13, 2416	10	19
50	Metal-Support Cooperative Catalysts for Environmentally Benign Molecular Transformations. <i>Chemical Record</i> , <b>2017</b> , 17, 4-26	6.6	18
49	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. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3042-3045	3.6	17
48	Highly efficient dehydrogenative coupling of hydrosilanes with amines or amides using supported gold nanoparticles. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 3202-5	4.8	16
47	Highly efficient double-carbonylation of amines to oxamides using gold nanoparticle catalysts. <i>Chemical Communications</i> , <b>2012</b> , 48, 11733-5	5.8	16

46	Highly Efficient Deoxygenation of Sulfoxides Using Hydroxyapatite-supported Ruthenium Nanoparticles. <i>Chemistry Letters</i> , <b>2014</b> , 43, 420-422	1.7	15
45	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9509-9513	3.6	15
44	O <sub>2</sub> -enhanced Catalytic Activity of Gold Nanoparticles in Selective Oxidation of Hydrosilanes to Silanols. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1062-1064	1.7	15
43	Solution XAS Analysis for Exploring the Active Species in Homogeneous Vanadium Complex Catalysis. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 061014	1.5	13
42	Green, Multi-Gram One-Step Synthesis of Core-Shell Nanocomposites in Water and Their Catalytic Application to Chemoselective Hydrogenations. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 17962-17966	4.8	13
41	Remarkable Effect of Bases on Core-Shell AgNP@CeO <sub>2</sub> Nanocomposite-catalyzed Highly Chemoselective Reduction of Unsaturated Aldehydes. <i>Chemistry Letters</i> , <b>2013</b> , 42, 660-662	1.7	12
40	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. <i>Organometallics</i> , <b>2019</b> , 38, 4497-4507	3.8	11
39	Hydrogenation of Sulfoxides to Sulfides under Mild Conditions Using Ruthenium Nanoparticle Catalysts. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8488-8491	3.6	11
38	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of D-glucose to D-sorbitol. <i>Green Chemistry</i> , <b>2021</b> , 23, 2010-2016	10	11
37	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. <i>Scientific Reports</i> , <b>2017</b> , 7, 14007	4.9	10
36	Highly atom-efficient and chemoselective reduction of ketones in the presence of aldehydes using heterogeneous catalysts. <i>Green Chemistry</i> , <b>2013</b> , 15, 2695	10	9
35	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H <sub>2</sub> pressure. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 8827-8833	3.9	9
34	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. <i>Journal of the Japan Petroleum Institute</i> , <b>2018</b> , 61, 282-287	1	9
33	Mechanistic Insights on Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5827-5841	13.1	9
32	Air-stable and reusable cobalt ion-doped titanium oxide catalyst for alkene hydrosilylation. <i>Green Chemistry</i> , <b>2019</b> , 21, 4566-4570	10	8
31	Oxidation of Alcohols Using Nanocatalysts <b>2013</b> , 287-331		8
30	On-demand Hydrogen Production from Organosilanes at Ambient Temperature Using Heterogeneous Gold Catalysts. <i>Scientific Reports</i> , <b>2016</b> , 6, 37682	4.9	8
29	Ni-P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: P-Alloying Strategy for Designing Smart Catalysts. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 4439-4446	4.8	8

28	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. <i>Jacs Au</i> , <b>2021</b> , 1, 501-507		7
27	Effective management of polyethers through depolymerization to symmetric and unsymmetric glycol diesters using a proton-exchanged montmorillonite catalyst. <i>Green Chemistry</i> , <b>2017</b> , 19, 2612-2619 <sup>10</sup>		6
26	Novel Catalysis in the Internal Nanocavity of Polyamine Dendrimer for Intramolecular Michael Reaction. <i>Chemistry Letters</i> , <b>2012</b> , 41, 801-803	1.7	6
25	Regioselective oxidative coupling of 2,6-dimethylphenol to tetramethyldiphenoquinone using polyamine dendrimer-encapsulated Cu catalysts. <i>RSC Advances</i> , <b>2013</b> , 3, 9662	3.7	5
24	Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate: Synchrotron Radiation Sheds Light on the Cu Cycle Mechanism. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5909-5919	13.1	4
23	Direct observation of catalytically active species in reaction solution by X-ray absorption spectroscopy (XAS). <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 100502	1.4	4
22	A dual-functional heterogeneous ruthenium catalyst for the green one-pot synthesis of biphenols. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3205-3209	5.5	4
21	Selective C-C coupling reaction of dimethylphenol to tetramethyldiphenoquinone using molecular oxygen catalyzed by Cu complexes immobilized in nanospaces of structurally-ordered materials. <i>Molecules</i> , <b>2015</b> , 20, 3089-106	4.8	4
20	Efficient Synthesis of Benzofurans via Cross-Coupling of Catechols with Hydroxycoumarins Using O <sub>2</sub> as an Oxidant Catalyzed by AlPO <sub>4</sub> -Supported Rh Nanoparticle. <i>ChemistrySelect</i> , <b>2019</b> , 4, 11394-11397 <sup>1.8</sup>		3
19	Design of Well-Defined Active Sites on Crystalline Materials for Liquid-Phase Oxidations <sup>157-183</sup>		3
18	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6347-6354	8.3	3
17	Synthesis of tetraline derivatives through depolymerization of polyethers with aromatic compounds using a heterogeneous titanium-exchanged montmorillonite catalyst. <i>RSC Advances</i> , <b>2016</b> , 6, 89231-89233	3.7	3
16	Oxidative cross-coupling reaction of catechols with active methylene compounds in an aqueous medium using an AlPO <sub>4</sub> -supported Ru catalyst. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5401-5405	5.5	3
15	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst.. <i>Jacs Au</i> , <b>2022</b> , 2, 665-672		3
14	Back Cover: Design of a Silver-Terium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. Int. Ed. 1/2012). <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 278-278	16.4	2
13	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. <i>Scientific Reports</i> , <b>2021</b> , 11, 10673	4.9	2
12	Efficient D-Xylose Hydrogenation to D-Xylitol over a Hydrotalcite-Supported Nickel Phosphide Nanoparticle Catalyst. <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 3327-3331	2.3	2
11	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton-Exchanged Montmorillonite Catalyst. <i>ChemistrySelect</i> , <b>2016</b> , 1, 201-204	1.8	2

10	A copper nitride catalyst for the efficient hydroxylation of aryl halides under ligand-free conditions. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 6593-6597	3.9	2
9	Hydrotalcite-Supported Cobalt Phosphide Nanorods as a Highly Active and Reusable Heterogeneous Catalyst for Ammonia-Free Selective Hydrogenation of Nitriles to Primary Amines. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11238-11246	8.3	2
8	Röntgenbild: Design of a Silver-Cerium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. 1/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 284-284	3.6	1
7	Simple and Efficient 1,3-Isomerization of Allylic Alcohols using a Supported Monomeric Vanadium-Oxide Catalyst. <i>ChemCatChem</i> , <b>2013</b> , 5, 2879-2882	5.2	1
6	Inside Cover: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. Int. Ed. 32/2010). <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5390-5390	16.4	1
5	H <sub>2</sub> -Free Selective Dehydroxymethylation of Primary Alcohols over Palladium Nanoparticle Catalysts. <i>ChemCatChem</i> , <b>2021</b> , 13, 1135-1139	5.2	0
4	Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propylene imine)]-Shell [Poly(benzyl ether)] Hybrid Dendrimers. <i>Chemistry Letters</i> , <b>2013</b> , 42, 313-315	1.7	
3	Titelbild: Wacker-Type Oxidation of Internal Olefins Using a PdCl <sub>2</sub> /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. 7/2010). <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1189-1189	3.6	
2	Innentitelbild: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. 32/2010). <i>Angewandte Chemie</i> , <b>2010</b> , 122, 5518-5518	3.6	
1	Cover Picture: Wacker-Type Oxidation of Internal Olefins Using a PdCl <sub>2</sub> /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. Int. Ed. 7/2010). <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1169-1169	16.4	