

Takato Mitsudome

List of Publications by Year in descending order

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87
papers

5,048
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101496

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106
docs citations

106
times ranked

5263
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 138-141.	7.2	274
2	Gold nanoparticle catalysts for selective hydrogenations. <i>Green Chemistry</i> , 2013, 15, 2636.	4.6	267
3	Design of a Silver-Cerium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 136-139.	7.2	258
4	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 481-485.	7.2	241
5	Efficient Aerobic Oxidation of Alcohols using a Hydrotalcite-Supported Gold Nanoparticle Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1890-1896.	2.1	188
6	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> , 2015, 137, 13452-13455.	6.6	185
7	Copper nanoparticles on hydrotalcite as a heterogeneous catalyst for oxidant-free dehydrogenation of alcohols. <i>Chemical Communications</i> , 2008, , 4804.	2.2	180
8	Supported Silver-Nanoparticle-Catalyzed Highly Efficient Aqueous Oxidation of Phenylsilanes to Silanols. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7938-7940.	7.2	177
9	Supported silver nanoparticle catalyst for selective hydration of nitriles to amides in water. <i>Chemical Communications</i> , 2009, , 3258.	2.2	164
10	Metal-Ligand Core-Shell Nanocomposite Catalysts for the Selective Semihydrogenation of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1481-1485.	7.2	140
11	Supported gold nanoparticle catalyst for the selective oxidation of silanes to silanols in water. <i>Chemical Communications</i> , 2009, , 5302.	2.2	139
12	Direct Transformation of Furfural to 1,2-Pentanediol Using a Hydrotalcite-Supported Platinum Nanoparticle Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2243-2247.	3.2	131
13	Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated γ -Fe ₂ O ₃ nanocrystallites for highly efficient dehalogenation with molecular hydrogen. <i>Green Chemistry</i> , 2007, 9, 1246.	4.6	126
14	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> , 2009, 11, 793.	4.6	121
15	Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5545-5548.	7.2	117
16	Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1238-1240.	7.2	99
17	Highly Efficient Gold Nanoparticle Catalyzed Deoxygenation of Amides, Sulfoxides, and Pyridine Oxides. <i>Chemistry - A European Journal</i> , 2011, 17, 1768-1772.	1.7	97
18	Montmorillonite-Entrapped Sub-nanoordered Pd Clusters as a Heterogeneous Catalyst for Allylic Substitution Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3288-3290.	7.2	77

#	ARTICLE	IF	CITATIONS
19	Mild Hydrogenation of Amides to Amines over a Platinum–Vanadium Bimetallic Catalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9381-9385.	7.2	73
20	One-Pot Transformation of Levulinic Acid to 2-Methyltetrahydrofuran Catalyzed by Pt–Mo/H ₂ in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 682-685.	3.2	71
21	Unique Catalysis of Nickel Phosphide Nanoparticles to Promote the Selective Transformation of Biofuranic Aldehydes into Diketones in Water. <i>ACS Catalysis</i> , 2020, 10, 4261-4267.	5.5	71
22	A cobalt phosphide catalyst for the hydrogenation of nitriles. <i>Chemical Science</i> , 2020, 11, 6682-6689.	3.7	66
23	Core–Shell AgNP@CeO ₂ Nanocomposite Catalyst for Highly Chemoselective Reductions of Unsaturated Aldehydes. <i>Chemistry - A European Journal</i> , 2013, 19, 5255-5258.	1.7	60
24	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. <i>ACS Catalysis</i> , 2021, 11, 750-757.	5.5	60
25	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Catalyzed by Pt Nanoparticles@Al ₂ O ₃ /WO ₃ . <i>Chemistry Letters</i> , 2012, 41, 1720-1722.	0.7	56
26	Hydrogenation of Sulfoxides to Sulfides under Mild Conditions Using Ruthenium Nanoparticle Catalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8348-8351.	7.2	54
27	A Titanium Dioxide Supported Gold Nanoparticle Catalyst for the Selective N-Formylation of Functionalized Amines with Carbon Dioxide and Hydrogen. <i>ChemCatChem</i> , 2017, 9, 3632-3636.	1.8	53
28	Room-Temperature Deoxygenation of Epoxides with CO Catalyzed by Hydrotalcite-Supported Gold Nanoparticles in Water. <i>Chemistry - A European Journal</i> , 2010, 16, 11818-11821.	1.7	51
29	Advanced Core–Shell Nanoparticle Catalysts for Efficient Organic Transformations. <i>ChemCatChem</i> , 2013, 5, 1681-1691.	1.8	50
30	Highly Atom-Efficient Oxidation of Electron-Deficient Internal Olefins to Ketones Using a Palladium Catalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5961-5964.	7.2	49
31	Effect of Al Cocatalyst in Ethylene and Ethylene/Norbornene (Co)polymerization by (Imido)vanadium Dichloride Complexes Containing Anionic <i>N</i> -Heterocyclic Carbenes Having Weakly Coordinating Borate Moiety. <i>Journal of the Japan Petroleum Institute</i> , 2017, 60, 256-262.	0.4	34
32	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. <i>Jacs Au</i> , 2021, 1, 501-507.	3.6	34
33	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of <i>D</i> -glucose to <i>D</i> -sorbitol. <i>Green Chemistry</i> , 2021, 23, 2010-2016.	4.6	34
34	Direct synthesis of unsymmetrical ethers from alcohols catalyzed by titanium cation-exchanged montmorillonite. <i>Green Chemistry</i> , 2012, 14, 610.	4.6	33
35	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> , 2017, 36, 530-542.	1.1	33
36	XAS Analysis of Reactions of (Arylimido)vanadium(V) Dichloride Complexes Containing Anionic NHC That Contains a Weakly Coordinating B(C ₆ F ₅) ₃ Moiety (WCA-NHC) or Phenoxide Ligands with Al Alkyls: A Potential Ethylene Polymerization Catalyst with WCA-NHC Ligands. <i>ACS Omega</i> , 2019, 4, 18833-18845.	1.6	33

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37	Highly Efficient Etherification of Silanes by Using a Gold Nanoparticle Catalyst: Remarkable Effect of O_2 . Chemistry - A European Journal, 2013, 19, 14398-14402.	1.7	30
38	Creation of a high-valent manganese species on hydrotalcite and its application to the catalytic aerobic oxidation of alcohols. Green Chemistry, 2010, 12, 2142.	4.6	26
39	Synthesis and Structural Analysis of (Imido)vanadium Dichloride Complexes Containing 2-(2-Benzimidazolyl)pyridine Ligands: Effect of Al Cocatalyst for Efficient Ethylene (Co)polymerization. ACS Omega, 2017, 2, 8660-8673.	1.6	26
40	Metal-Support Cooperative Catalysts for Environmentally Benign Molecular Transformations. Chemical Record, 2017, 17, 4-26.	2.9	25
41	Gold nanoparticle-catalyzed cyclocarbonylation of 2-aminophenols. Green Chemistry, 2013, 15, 608.	4.6	24
42	Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from Cu-Al Hydrotalcite. Chemistry Letters, 2013, 42, 729-731.	0.7	24
43	Rhodium-grafted hydrotalcite catalyst for heterogeneous 1,4-addition reaction of organoboron reagents to electron deficient olefins. Green Chemistry, 2011, 13, 2416.	4.6	23
44	O ₂ -enhanced Catalytic Activity of Gold Nanoparticles in Selective Oxidation of Hydrosilanes to Silanols. Chemistry Letters, 2015, 44, 1062-1064.	0.7	21
45	Highly efficient double-carbonylation of amines to oxamides using gold nanoparticle catalysts. Chemical Communications, 2012, 48, 11733.	2.2	20
46	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.	1.7	20
47	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. Angewandte Chemie, 2017, 129, 9509-9513.	1.6	20
48	Highly Efficient Deoxygenation of Sulfoxides Using Hydroxyapatite-supported Ruthenium Nanoparticles. Chemistry Letters, 2014, 43, 420-422.	0.7	19
49	Highly Efficient Dehydrogenative Coupling of Hydrosilanes with Amines or Amides Using Supported Gold Nanoparticles. Chemistry - A European Journal, 2015, 21, 3202-3205.	1.7	19
50	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. ACS Sustainable Chemistry and Engineering, 2021, 9, 6347-6354.	3.2	19
51	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H_2 pressure. Organic and Biomolecular Chemistry, 2020, 18, 8827-8833.	1.5	18
52	Ni_2P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: Alloying Strategy for Designing Smart Catalysts. Chemistry - A European Journal, 2021, 27, 4439-4446.	1.7	18
53	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.	1.1	16
54	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.	3.2	16

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55	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. <i>Scientific Reports</i> , 2017, 7, 14007.	1.6	15
56	Remarkable Effect of Bases on Core-Shell AgNP@CeO ₂ Nanocomposite-catalyzed Highly Chemoselective Reduction of Unsaturated Aldehydes. <i>Chemistry Letters</i> , 2013, 42, 660-662.	0.7	14
57	On-demand Hydrogen Production from Organosilanes at Ambient Temperature Using Heterogeneous Gold Catalysts. <i>Scientific Reports</i> , 2016, 6, 37682.	1.6	14
58	Solution XAS Analysis for Exploring the Active Species in Homogeneous Vanadium Complex Catalysis. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 061014.	0.7	14
59	Air-stable and reusable cobalt ion-doped titanium oxide catalyst for alkene hydrosilylation. <i>Green Chemistry</i> , 2019, 21, 4566-4570.	4.6	14
60	Mechanistic Insights on Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate. <i>ACS Catalysis</i> , 2018, 8, 5827-5841.	5.5	12
61	Phosphorus-Alloying as a Powerful Method for Designing Highly Active and Durable Metal Nanoparticle Catalysts for the Deoxygenation of Sulfoxides: Ligand and Ensemble Effects of Phosphorus. <i>Jacs Au</i> , 2022, 2, 419-427.	3.6	12
62	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst. <i>Jacs Au</i> , 2022, 2, 665-672.	3.6	12
63	Highly atom-efficient and chemoselective reduction of ketones in the presence of aldehydes using heterogeneous catalysts. <i>Green Chemistry</i> , 2013, 15, 2695.	4.6	11
64	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> , 2018, 61, 282-287.	0.4	10
65	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. <i>Scientific Reports</i> , 2021, 11, 10673.	1.6	10
66	Pd/Cu-Catalyzed Dehydrogenative Coupling of Dimethyl Phthalate: Synchrotron Radiation Sheds Light on the Cu Cycle Mechanism. <i>ACS Catalysis</i> , 2020, 10, 5909-5919.	5.5	9
67	Efficient D-xylose Hydrogenation to D-xylitol over a Hydrotalcite-Supported Nickel Phosphide Nanoparticle Catalyst. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3327-3331.	1.0	9
68	Regioselective oxidative coupling of 2,6-dimethylphenol to tetramethyldiphenoquinone using polyamine dendrimer-encapsulated Cu catalysts. <i>RSC Advances</i> , 2013, 3, 9662.	1.7	8
69	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> , 2015, 20, 3089-3106.	1.7	7
70	Effective management of polyethers through depolymerization to symmetric and unsymmetric glycol diesters using a proton-exchanged montmorillonite catalyst. <i>Green Chemistry</i> , 2017, 19, 2612-2619.	4.6	7
71	Direct observation of catalytically active species in reaction solution by X-ray absorption spectroscopy (XAS). <i>Japanese Journal of Applied Physics</i> , 2019, 58, 100502.	0.8	7
72	A copper nitride catalyst for the efficient hydroxylation of aryl halides under ligand-free conditions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6593-6597.	1.5	7

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73	Novel Catalysis in the Internal Nanocavity of Polyamine Dendrimer for Intramolecular Michael Reaction. <i>Chemistry Letters</i> , 2012, 41, 801-803.	0.7	6
74	Design of Well-Defined Active Sites on Crystalline Materials for Liquid-Phase Oxidations. , 0, , 157-183.		4
75	Synthesis of tetraline derivatives through depolymerization of polyethers with aromatic compounds using a heterogeneous titanium-exchanged montmorillonite catalyst. <i>RSC Advances</i> , 2016, 6, 89231-89233.	1.7	4
76	A dual-functional heterogeneous ruthenium catalyst for the green one-pot synthesis of biphenols. <i>Catalysis Science and Technology</i> , 2017, 7, 3205-3209.	2.1	4
77	Oxidative cross-coupling reaction of catechols with active methylene compounds in an aqueous medium using an AlPO ₄ -supported Ru catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 5401-5405.	2.1	4
78	Efficient Synthesis of Benzofurans via Cross-Coupling of Catechols with Hydroxycoumarins Using O ₂ as an Oxidant Catalyzed by AlPO ₄ -Supported Rh Nanoparticle. <i>ChemistrySelect</i> , 2019, 4, 11394-11397.	0.7	4
79	H ₂ -Free Selective Dehydroxymethylation of Primary Alcohols over Palladium Nanoparticle Catalysts. <i>ChemCatChem</i> , 2021, 13, 1135-1139.	1.8	4
80	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton-exchanged Montmorillonite Catalyst. <i>ChemistrySelect</i> , 2016, 1, 201-204.	0.7	3
81	Back Cover: Design of a Silver-Cerium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (<i>Angew. Chem. Int. Ed.</i> 1/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 278-278.	7.2	2
82	Simple and Efficient 1,3-Isomerization of Allylic Alcohols using a Supported Monomeric Vanadium-Oxide Catalyst. <i>ChemCatChem</i> , 2013, 5, 2879-2882.	1.8	2
83	Inside Cover: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (<i>Angew. Chem. Int. Ed.</i> 32/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5390-5390.	7.2	1
84	Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propylene imine)]-Shell [Poly(benzyl) Tj ETQq0,0,0 rgBT 1/Overlock	0.7	1
85	Titelbild: Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (<i>Angew. Chem.</i> 7/2010). <i>Angewandte Chemie</i> , 2010, 122, 1189-1189.	1.6	0
86	Innentitelbild: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (<i>Angew. Chem.</i> 32/2010). <i>Angewandte Chemie</i> , 2010, 122, 5518-5518.	1.6	0
87	Cover Picture: Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (<i>Angew. Chem. Int. Ed.</i> 7/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1169-1169.	7.2	0