

# Kazuya Yamaguchi

## List of Publications by Citations

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338  
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14,534  
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L-index

#	Paper	IF	Citations
239	Epoxidation of olefins with hydrogen peroxide catalyzed by polyoxometalates. <i>Coordination Chemistry Reviews</i> , <b>2005</b> , 249, 1944-1956	23.2	586
238	MgAl Mixed Oxides as Highly Active Acid-Base Catalysts for Cycloaddition of Carbon Dioxide to Epoxides. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 4526-4527	16.4	586
237	Efficient epoxidation of olefins with $\geq 99\%$ selectivity and use of hydrogen peroxide. <i>Science</i> , <b>2003</b> , 300, 964-6	33.3	527
236	Supported ruthenium catalyst for the heterogeneous oxidation of alcohols with molecular oxygen. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 4538-42	16.4	412
235	Creation of a Monomeric Ru Species on the Surface of Hydroxyapatite as an Efficient Heterogeneous Catalyst for Aerobic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7144-7145	16.4	381
234	Controlled synthesis of hydroxyapatite-supported palladium complexes as highly efficient heterogeneous catalysts. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 11572-3	16.4	343
233	Efficient heterogeneous aerobic oxidation of amines by a supported ruthenium catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 1479-83	16.4	300
232	Scope, kinetics, and mechanistic aspects of aerobic oxidations catalyzed by ruthenium supported on alumina. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 4353-61	4.8	271
231	Peroxo-tungstate immobilized on ionic liquid-modified silica as a heterogeneous epoxidation catalyst with hydrogen peroxide. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 530-1	16.4	249
230	Catalysis of a hydroxyapatite-bound Ru complex: efficient heterogeneous oxidation of primary amines to nitriles in the presence of molecular oxygen. <i>Chemical Communications</i> , <b>2001</b> , 461-462	5.8	199
229	Efficient hydration of nitriles to amides in water, catalyzed by ruthenium hydroxide supported on alumina. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1576-80	16.4	196
228	Catalytic oxidative synthesis of nitriles directly from primary alcohols and ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6286-8	16.4	187
227	Ruthenium hydroxide on magnetite as a magnetically separable heterogeneous catalyst for liquid-phase oxidation and reduction. <i>Green Chemistry</i> , <b>2006</b> , 8, 735	10	179
226	A tungsten-tin mixed hydroxide as an efficient heterogeneous catalyst for dehydration of aldoximes to nitriles. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3922-5	16.4	169
225	Efficient oxidative alkyne homocoupling catalyzed by a monomeric dicopper-substituted silicotungstate. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2407-10	16.4	165
224	Polyoxovanadometalate-catalyzed selective epoxidation of alkenes with hydrogen peroxide. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 5136-41	16.4	161
223	1,3-Dipolar cycloaddition of organic azides to alkynes by a dicopper-substituted silicotungstate. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15304-10	16.4	150

222	Heterogeneously catalyzed synthesis of primary amides directly from primary alcohols and aqueous ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 544-7	16.4	149
221	A one-pot synthesis of primary amides from aldoximes or aldehydes in water in the presence of a supported rhodium catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5202-5	16.4	140
220	Heterogeneously catalyzed efficient oxygenation of primary amines to amides by a supported ruthenium hydroxide catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9249-51	16.4	135
219	Heterogeneously catalyzed selective N-alkylation of aromatic and heteroaromatic amines with alcohols by a supported ruthenium hydroxide. <i>Journal of Catalysis</i> , <b>2009</b> , 263, 205-208	7.3	125
218	The "borrowing hydrogen strategy" by supported ruthenium hydroxide catalysts: synthetic scope of symmetrically and unsymmetrically substituted amines. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7199-207	4.8	118
217	Visible-light-induced photoredox catalysis with a tetracerium-containing silicotungstate. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5356-60	16.4	115
216	Olefin epoxidation with hydrogen peroxide catalyzed by lacunary polyoxometalate [gamma-SiW10O34H2O2]4-. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 639-48	4.8	115
215	Synthesis and catalysis of di- and tetranuclear metal sandwich-type silicotungstates [(gamma-SiW10O36)2M2(mu-OH)2]10- and [(gamma-SiW10O36)2M4(mu4-O)(mu-OH)6]8- (M = Zr or Hf). <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5472-8	16.4	113
214	Heterogeneously catalyzed aerobic oxidative biaryl coupling of 2-naphthols and substituted phenols in water. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6632-40	16.4	113
213	Saccharification of natural lignocellulose biomass and polysaccharides by highly negatively charged heteropolyacids in concentrated aqueous solution. <i>ChemSusChem</i> , <b>2011</b> , 4, 519-25	8.3	108
212	[gamma-1,2-H2SiV2W10O40] immobilized on surface-modified SiO2 as a heterogeneous catalyst for liquid-phase oxidation with H2O2. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 4176-84	4.8	108
211	Heterogeneously catalyzed liquid-phase oxidation of alkanes and alcohols with molecular oxygen. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 972-974	3.6	106
210	Catalytic synthesis of silyl formates with 1atm of CO2 and their utilization for synthesis of formyl compounds and formic acid. <i>Journal of Molecular Catalysis A</i> , <b>2013</b> , 366, 347-352		105
209	Cyanosilylation of carbonyl compounds with trimethylsilyl cyanide catalyzed by an yttrium-pillared silicotungstate dimer. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3686-90	16.4	103
208	Supported Ruthenium Catalyst for the Heterogeneous Oxidation of Alcohols with Molecular Oxygen. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 4720-4724	3.6	101
207	Epoxidation of alpha,beta-unsaturated ketones using hydrogen peroxide in the presence of basic hydroxalcite catalysts. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 6897-903	4.2	99
206	Diamond-shaped [Ag4]4+ cluster encapsulated by silicotungstate ligands: synthesis and catalysis of hydrolytic oxidation of silanes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2434-7	16.4	96
205	A supported copper hydroxide on titanium oxide as an efficient reusable heterogeneous catalyst for 1,3-dipolar cycloaddition of organic azides to terminal alkynes. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 10464-72	4.8	96

204	Zinc(II) containing gamma-Keggin sandwich-type silicotungstate: synthesis in organic media and oxidation catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6096-100	16.4	95
203	Aerobic alcohol oxidation catalyzed by supported ruthenium hydroxides. <i>Journal of Catalysis</i> , <b>2009</b> , 268, 343-349	7.3	94
202	Strategic design and refinement of Lewis acid-base catalysis by rare-earth-metal-containing polyoxometalates. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 6953-61	5.1	91
201	Synthesis of a dialuminum-substituted silicotungstate and the diastereoselective cyclization of citronellal derivatives. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15872-8	16.4	90
200	Efficient Heterogeneous Aerobic Oxidation of Amines by a Supported Ruthenium Catalyst. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 1518-1521	3.6	89
199	Synthesis, structural characterization, and catalytic performance of dititanium-substituted gamma-Keggin silicotungstate. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 2347-56	5.1	87
198	Polyoxometalate Photocatalysis for Liquid-Phase Selective Organic Functional Group Transformations. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10809-10825	13.1	86
197	Hydrotalcite catalysis: heterogeneous epoxidation of olefins using hydrogen peroxide in the presence of nitriles. <i>Chemical Communications</i> , <b>1998</b> , 295-296	5.8	85
196	Conceptual Design of Heterogeneous Oxidation Catalyst: Copper Hydroxide on Manganese Oxide-Based Octahedral Molecular Sieve for Aerobic Oxidative Alkyne Homocoupling. <i>ACS Catalysis</i> , <b>2011</b> , 1, 1351-1354	13.1	83
195	Heterogeneously Catalyzed One-pot Synthesis of Aldimines from Primary Alcohols and Amines by Supported Ruthenium Hydroxides. <i>Chemistry Letters</i> , <b>2009</b> , 38, 920-921	1.7	83
194	Heterogeneously catalyzed efficient alkyne-alkyne homocoupling by supported copper hydroxide on titanium oxide. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 7539-42	4.8	81
193	Selective Synthesis of Secondary Amines via N-Alkylation of Primary Amines and Ammonia with Alcohols by Supported Copper Hydroxide Catalysts. <i>Chemistry Letters</i> , <b>2010</b> , 39, 1182-1183	1.7	81
192	Green Oxidation Reactions by Polyoxometalate-Based Catalysts: From Molecular to Solid Catalysts. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 876-893	2.3	81
191	Efficient heterogeneous oxidation of alkylarenes with molecular oxygen. <i>Organic Letters</i> , <b>2004</b> , 6, 3577-80	8.2	81
190	Manganese oxide-catalyzed transformation of primary amines to primary amides through the sequence of oxidative dehydrogenation and successive hydration. <i>Chemical Communications</i> , <b>2012</b> , 48, 2642-4	5.8	80
189	Field-induced slow magnetic relaxation of octahedrally coordinated mononuclear Fe(III)-, Co(II)-, and Mn(III)-containing polyoxometalates. <i>Chemical Communications</i> , <b>2015</b> , 51, 4081-4	5.8	79
188	Efficient Hydration of Nitriles to Amides in Water, Catalyzed by Ruthenium Hydroxide Supported on Alumina. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 1602-1606	3.6	79
187	Green oxidative synthesis of primary amides from primary alcohols or aldehydes catalyzed by a cryptomelane-type manganese oxide-based octahedral molecular sieve, OMS-2. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 318-327	5.5	75

186	Manganese oxide promoted liquid-phase aerobic oxidative amidation of methylarenes to monoamides using ammonia surrogates. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7250-3	16.4	75
185	Highly selective, recyclable epoxidation of allylic alcohols with hydrogen peroxide in water catalyzed by dinuclear peroxotungstate. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 4728-34	4.8	74
184	Tripodal Ligand-Stabilized Layered Double Hydroxide Nanoparticles with Highly Exchangeable CO <sub>3</sub> <sup>2-</sup> <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2291-2296	9.6	73
183	Selective aerobic oxidations by supported ruthenium hydroxide catalysts. <i>Catalysis Today</i> , <b>2008</b> , 132, 18-26	5.3	72
182	Synthetic scope and mechanistic studies of Ru(OH) <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> -catalyzed heterogeneous hydrogen-transfer reactions. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 6574-82	4.8	72
181	Hydrotalcite-Catalyzed Epoxidation of Olefins Using Hydrogen Peroxide and Amide Compounds. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 2966-2968	4.2	72
180	Molybdenum-doped $\gamma$ -MnO <sub>2</sub> as an efficient reusable heterogeneous catalyst for aerobic sulfide oxygenation. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 222-233	5.5	71
179	Catalytic Oxidative Synthesis of Nitriles Directly from Primary Alcohols and Ammonia. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 6404-6406	3.6	71
178	An efficient H <sub>2</sub> O <sub>2</sub> -based oxidative bromination of alkenes, alkynes, and aromatics by a divanadium-substituted phosphotungstate. <i>Chemical Communications</i> , <b>2011</b> , 47, 1692-4	5.8	68
177	A highly negatively charged Keggin germanodecatungstate efficient for Knoevenagel condensation. <i>Chemical Communications</i> , <b>2012</b> , 48, 8422-4	5.8	66
176	Aerobic oxidative transformation of primary azides to nitriles by ruthenium hydroxide catalyst. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 4606-10	4.2	66
175	A supported rhodium hydroxide catalyst: preparation, characterization, and scope of the synthesis of primary amides from aldoximes or aldehydes. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 1715-21	4.5	66
174	Highly dispersed ruthenium hydroxide supported on titanium oxide effective for liquid-phase hydrogen-transfer reactions. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 11480-7	4.8	64
173	Controlled Assembly Synthesis of Atomically Precise Ultrastable Silver Nanoclusters with Polyoxometalates. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19550-19554	16.4	64
172	Oxidation of adamantane with 1 atm molecular oxygen by vanadium-substituted polyoxometalates. <i>Journal of Catalysis</i> , <b>2005</b> , 233, 81-89	7.3	63
171	An Efficient Solvent-Free Route to Silyl Esters and Silyl Ethers. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 1405-1411	5.6	60
170	A discrete octahedrally shaped [Ag <sub>6</sub> ] <sup>4+</sup> cluster encapsulated within silicotungstate ligands. <i>Chemical Communications</i> , <b>2013</b> , 49, 376-8	5.8	59
169	Molecular Design of Polyoxometalate-Based Compounds for Environmentally-Friendly Functional Group Transformations: From Molecular Catalysts to Heterogeneous Catalysts. <i>Catalysis Surveys From Asia</i> , <b>2011</b> , 15, 68-79	2.8	59

- 168 Efficient, regioselective epoxidation of dienes with hydrogen peroxide catalyzed by [EiW10O34(H2O)2]4 $\cdot$ . *Journal of Catalysis*, **2004**, 224, 224-228 7.3 59
- 167 A supported copper hydroxide as an efficient, ligand-free, and heterogeneous precatalyst for 1,3-dipolar cycloadditions of organic azides to terminal alkynes. *ChemSusChem*, **2009**, 2, 59-62 8.3 58
- 166 Efficient catalytic synthesis of tertiary and secondary amines from alcohols and urea. *Angewandte Chemie - International Edition*, **2009**, 48, 9888-91 16.4 58
- 165 Polyoxometalate catalysts: toward the development of green H<sub>2</sub>O<sub>2</sub>-based epoxidation systems. *Chemical Record*, **2006**, 6, 12-22 6.6 57
- 164 Heterogeneously catalyzed efficient hydration of alkynes to ketones by tin-tungsten mixed oxides. *Chemistry - A European Journal*, **2011**, 17, 1261-7 4.8 56
- 163 An efficient, ligand-free, heterogeneous supported copper hydroxide catalyst for the synthesis of n,n-bicyclic pyrazolidinone derivatives. *Chemistry - A European Journal*, **2011**, 17, 3827-31 4.8 56
- 162 Gold Nanoparticles Supported on a Layered Double Hydroxide as Efficient Catalysts for the One-Pot Synthesis of Flavones. *Angewandte Chemie - International Edition*, **2015**, 54, 13302-6 16.4 54
- 161 A tin-tungsten mixed oxide as an efficient heterogeneous catalyst for C-C bond-forming reactions. *Chemistry - A European Journal*, **2009**, 15, 4343-9 4.8 53
- 160 [(W(O)(O<sub>2</sub>)<sub>2</sub>(H<sub>2</sub>O))<sub>2</sub>(EO)]<sub>2</sub>E Catalyzed Epoxidation of Allylic Alcohols in Water with High Selectivity and Utilization of Hydrogen Peroxide. *Advanced Synthesis and Catalysis*, **2003**, 345, 1193-1196<sup>5.6</sup> 53
- 159 A One-Pot Synthesis of Primary Amides from Aldoximes or Aldehydes in Water in the Presence of a Supported Rhodium Catalyst. *Angewandte Chemie*, **2007**, 119, 5294-5297 3.6 50
- 158 Catalyst design of hydrotalcite compounds for efficient oxidations. *Catalysis Surveys From Asia*, **2000**, 4, 31-38 50
- 157 Au-Pd alloy nanoparticles supported on layered double hydroxide for heterogeneously catalyzed aerobic oxidative dehydrogenation of cyclohexanols and cyclohexanones to phenols. *Chemical Science*, **2016**, 7, 5371-5383 9.4 49
- 156 Self-Assembly of Anionic Polyoxometalate-Organic Architectures Based on Lacunary Phosphomolybdates and Pyridyl Ligands. *Journal of the American Chemical Society*, **2019**, 141, 7687-7692<sup>16.4</sup> 48
- 155 Heterogeneously catalyzed aerobic cross-dehydrogenative coupling of terminal alkynes and monohydrosilanes by gold supported on OMS-2. *Angewandte Chemie - International Edition*, **2013**, 52, 5627-30 16.4 48
- 154 A Tungsten<sup>III</sup>in Mixed Hydroxide as an Efficient Heterogeneous Catalyst for Dehydration of Aldoximes to Nitriles. *Angewandte Chemie*, **2007**, 119, 3996-3999 3.6 47
- 153 Copper-catalyzed oxidative cross-coupling of H-phosphonates and amides to N-acylphosphoramidates. *Organic Letters*, **2013**, 15, 418-21 6.2 45
- 152 Oxidative nucleophilic strategy for synthesis of thiocyanates and trifluoromethyl sulfides from thiols. *Organic and Biomolecular Chemistry*, **2014**, 12, 9200-6 3.9 45
- 151 Heterogeneously catalyzed selective aerobic oxidative cross-coupling of terminal alkynes and amides with simple copper(II) hydroxide. *Chemical Communications*, **2012**, 48, 4974-6 5.8 44

150	Synthetic scope of Ru(OH) <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> -catalyzed hydrogen-transfer reactions: an application to reduction of allylic alcohols by a sequential process of isomerization/Meerwein-Ponndorf-Verley-type reduction. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 4104-9	4.8	44
149	Selective Synthesis of Primary Anilines from Cyclohexanone Oximes by the Concerted Catalysis of a Mg-Al Layered Double Hydroxide Supported Pd Catalyst. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13821-13829	16.4	43
148	Heterogeneously Catalyzed Efficient Oxygenation of Primary Amines to Amides by a Supported Ruthenium Hydroxide Catalyst. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 9389-9391	3.6	43
147	Supported Gold Nanoparticles for Efficient $\alpha$ -Oxygenation of Secondary and Tertiary Amines into Amides. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7212-7	16.4	42
146	Gold-catalyzed heterogeneous aerobic dehydrogenative amination of $\beta$ -unsaturated aldehydes to enaminals. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 455-8	16.4	41
145	Synthesis and Disassembly/Reassembly of Giant Ring-Shaped Polyoxotungstate Oligomers. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9630-3	16.4	40
144	Heterogeneously Catalyzed Synthesis of Primary Amides Directly from Primary Alcohols and Aqueous Ammonia. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 559-562	3.6	40
143	Tin/Tungsten Mixed Oxide as Efficient Heterogeneous Catalyst for Conversion of Saccharides to Furan Derivatives. <i>Chemistry Letters</i> , <b>2011</b> , 40, 542-543	1.7	40
142	An Immobilized Organocatalyst for Cyanosilylation and Epoxidation. <i>Advanced Synthesis and Catalysis</i> , <b>2006</b> , 348, 1516-1520	5.6	40
141	An Efficient One-Pot Synthesis of Nitriles from Alcohols or Aldehydes with NH <sub>3</sub> Catalyzed by a Supported Ruthenium Hydroxide. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 479-486	2.3	39
140	A Widely Applicable Regioselective Aerobic $\beta$ -Cyanation of Tertiary Amines Heterogeneously Catalyzed by Manganese Oxides. <i>ChemCatChem</i> , <b>2013</b> , 5, 2835-2838	5.2	38
139	Efficient Oxidative Alkyne Homocoupling Catalyzed by a Monomeric Dicopper-Substituted Silicotungstate. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2441-2444	3.6	38
138	Cyanosilylation of Carbonyl Compounds with Trimethylsilyl Cyanide Catalyzed by an Yttrium-Pillared Silicotungstate Dimer. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3746-3750	3.6	37
137	Visible-Light-Induced Photoredox Catalysis with a Tetracerium-Containing Silicotungstate. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5460-5464	3.6	36
136	Rhodium acetate/base-catalyzed N-silylation of indole derivatives with hydrosilanes. <i>Chemical Communications</i> , <b>2012</b> , 48, 9269-71	5.8	36
135	Polyoxovanadometalate-Catalyzed Selective Epoxidation of Alkenes with Hydrogen Peroxide. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 5266-5271	3.6	36
134	Synthesis and structural characterization of a monomeric di-copper-substituted silicotungstate [H <sub>2</sub> SiW <sub>10</sub> O <sub>36</sub> Cu <sub>2</sub> (H <sub>2</sub> O <sub>2</sub> ) <sub>2</sub> ] <sub>4</sub> and the catalysis of oxidative homocoupling of alkynes. <i>Journal of Catalysis</i> , <b>2008</b> , 258, 121-130	7.3	35
133	Polyoxometalate LUMO engineering: a strategy for visible-light-responsive aerobic oxygenation photocatalysts. <i>Chemical Communications</i> , <b>2018</b> , 54, 7127-7130	5.8	34

- 132 Versatile routes for synthesis of diarylamines through acceptorless dehydrogenative aromatization catalysis over supported gold-palladium bimetallic nanoparticles. *Chemical Science*, **2017**, 8, 2131-2142 9.4 33
- 131 Photoredox catalysis for oxygenation/deoxygenation between sulfides and sulfoxides by visible-light-responsive polyoxometalates. *New Journal of Chemistry*, **2016**, 40, 1014-1021 3.6 33
- 130 Synthesis and structural characterization of a gamma-Keggin-type dimeric silicotungstate with a bis(mu-hydroxo) dizirconium core [(gamma-SiW10O36)2Zr2(mu-OH)2]10-. *Inorganic Chemistry*, **2007**, 46, 8502-4 5.1 33
- 129 Efficient sulfoxidation with hydrogen peroxide catalyzed by a divanadium-substituted phosphotungstate. *Catalysis Today*, **2013**, 203, 76-80 5.3 32
- 128 Improved performance of Co-doped Li2O cathodes for lithium-peroxide batteries using LiCoO2 as a dopant source. *Journal of Power Sources*, **2016**, 306, 567-572 8.9 31
- 127 Sequential Synthesis of 3d-3d'-4f Heterometallic Heptanuclear Clusters in between Lacunary Polyoxometalates. *Inorganic Chemistry*, **2016**, 55, 2023-9 5.1 29
- 126 Theoretical and Experimental Studies on Reaction Mechanism for Aerobic Alcohol Oxidation by Supported Ruthenium Hydroxide Catalysts. *Journal of Physical Chemistry C*, **2010**, 114, 10873-10880 3.8 29
- 125 A modular synthesis approach to multinuclear heterometallic oxo clusters in polyoxometalates. *Chemical Communications*, **2017**, 53, 7533-7536 5.8 27
- 124 A Monovacant Lacunary Silicotungstate as an Efficient Heterogeneous Catalyst for Dehydration of Primary Amides to Nitriles. *ChemCatChem*, **2013**, 5, 1725-1728 5.2 27
- 123 Sandwich-type zinc-containing polyoxometalates with a hexaprismane core [{Zn2W(O)O3}2]4+ synthesized by thermally induced isomerization of a metastable polyoxometalate. *Inorganic Chemistry*, **2010**, 49, 8194-6 5.1 27
- 122 An Efficient Copper-mediated 1,3-Dipolar Cycloaddition of Pyrazolidinone-based Dipoles to Terminal Alkynes to Produce N,N-Bicyclic Pyrazolidinone Derivatives. *Chemistry Letters*, **2010**, 39, 1086-1087 1.7 27
- 121 A cascade approach to hetero-pentanuclear manganese-oxide clusters in polyoxometalates and their single-molecule magnet properties. *Dalton Transactions*, **2015**, 44, 14220-6 4.3 26
- 120 Selective Oxidation with Aqueous Hydrogen Peroxide by [PO4{WO(O)2}4]3- Supported on Zinc-Modified Tin Dioxide. *ChemCatChem*, **2015**, 7, 1097-1104 5.2 26
- 119 A Ni-Mg-Al layered triple hydroxide-supported Pd catalyst for heterogeneous acceptorless dehydrogenative aromatization. *Chemical Communications*, **2017**, 53, 5267-5270 5.8 25
- 118 Hydrogen Evolution Using the Visible-light-induced Metal-to-polyoxometalate Multiple Electron Transfer. *Chemistry Letters*, **2014**, 43, 1429-1431 1.7 25
- 117 Efficient Catalytic Synthesis of Tertiary and Secondary Amines from Alcohols and Urea. *Angewandte Chemie*, **2009**, 121, 10072-10075 3.6 25
- 116 An Ultrastable, Small {Ag} Nanocluster within a Triangular Hollow Polyoxometalate Framework. *Angewandte Chemie - International Edition*, **2020**, 59, 16361-16365 16.4 24
- 115 Gold nanoparticles on OMS-2 for heterogeneously catalyzed aerobic oxidative dehydrogenation of heteroatom-substituted ketones. *Chemical Communications*, **2016**, 52, 14314-14317 5.8 24



114	Oxidative functional group transformations with hydrogen peroxide catalyzed by a divanadium-substituted phosphotungstate. <i>Catalysis Today</i> , <b>2012</b> , 185, 157-161	5.3	24
113	Scope and reaction mechanism of an aerobic oxidative alkyne homocoupling catalyzed by a di-copper-substituted silicotungstate. <i>Catalysis Today</i> , <b>2010</b> , 157, 359-363	5.3	24
112	Selective Synthesis of Primary Anilines from NH and Cyclohexanones by Utilizing Preferential Adsorption of Styrene on the Pd Nanoparticle Surface. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10893-10897	16.4	23
111	Supported gold-palladium alloy nanoparticle catalyzed tandem oxidation routes to N-substituted anilines from non-aromatic compounds. <i>Chemical Communications</i> , <b>2015</b> , 51, 14969-72	5.8	23
110	Facile access to 3,5-symmetrically disubstituted 1,2,4-thiadiazoles through phosphovanadomolybdic acid catalyzed aerobic oxidative dimerization of primary thioamides. <i>Chemical Communications</i> , <b>2014</b> , 50, 6748-50	5.8	23
109	Synthesis, structure characterization, and reversible transformation of a cobalt salt of a dilacunary Keggin silicotungstate and sandwich-type di- and tetracobalt-containing silicotungstate dimers. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8644-52	5.1	23
108	Alkoxides of Trivacant Lacunary Polyoxometalates. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14213-14220	4.08	23
107	Liquid-Phase Selective Oxidation by Multimetallic Active Sites of Polyoxometalate-Based Molecular Catalysts. <i>Topics in Organometallic Chemistry</i> , <b>2011</b> , 127-160	0.6	23
106	Electrochemical reactions and cathode properties of Fe-doped Li <sub>2</sub> O for the hermetically sealed lithium peroxide battery. <i>Journal of Power Sources</i> , <b>2016</b> , 322, 49-56	8.9	22
105	Facile access to N-substituted anilines via dehydrogenative aromatization catalysis over supported gold-palladium bimetallic nanoparticles. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 3929-3937	5.5	22
104	Manganese Oxide Promoted Liquid-Phase Aerobic Oxidative Amidation of Methylarenes to Monoamides Using Ammonia Surrogates. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 7362-7365	3.6	22
103	Liquid-Phase Oxidations with Hydrogen Peroxide and Molecular Oxygen Catalyzed by Polyoxometalate-Based Compounds	185-216	22
102	Nitration of alkanes with nitric acid by vanadium-substituted polyoxometalates. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 6489-96	4.8	22
101	[VO(H <sub>2</sub> O) <sub>5</sub> ]H[PMo <sub>12</sub> O <sub>40</sub> ]-catalyzed nitration of alkanes with nitric acid. <i>Chemical Communications</i> , <b>2004</b> , 424-5	5.8	22
100	Aerobic cross-dehydrogenative coupling of terminal alkynes and tertiary amines by a combined catalyst of Zn <sup>2+</sup> and OMS-2. <i>RSC Advances</i> , <b>2014</b> , 4, 34712-34715	3.7	21
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22	Heterogeneous-Gold-Catalyzed Acceptorless Cross-Dehydrogenative Coupling of Hydrosilanes and Isocyanic Acid Generated in situ from Urea. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8578-8581	3.6	3
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16	Heterogeneously Ni-Pd nanoparticle-catalyzed base-free formal C-S bond metathesis of thiols. <i>Chemical Communications</i> , <b>2021</b> , 57, 3749-3752	5.8	2
15	Supported Metal Hydroxides as Efficient Heterogeneous Catalysts for Green Functional Group Transformations. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 251-260	1	1
14	Cover Picture: Catalytic Oxidative Synthesis of Nitriles Directly from Primary Alcohols and Ammonia (Angew. Chem. Int. Ed. 34/2009). <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6175-6175	16.4	1
13	Olefin Epoxidation with Hydrogen Peroxide Catalyzed by Lacunary Polyoxometalate [Si <sub>10</sub> W <sub>10</sub> O <sub>34</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sup>4-</sup> . <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 4133-4133	4.8	1
12	C-H Bond Activation Mechanism by a Pd(II)-(EO)-Au(0) Structure Unique to Heterogeneous Catalysts.. <i>Jacs Au</i> , <b>2022</b> , 2, 394-406		1
11	New Strategy for Precise Synthesis of Polyoxometalate Catalysts with Designed Active Sites. <i>Journal of the Japan Petroleum Institute</i> , <b>2020</b> , 63, 258-266	1	1
10	A Molecular Hybrid of an Atomically Precise Silver Nanocluster and Polyoxometalates for H <sub>2</sub> Cleavage into Protons and Electrons. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 17131-17135	3.6	1
9	Synthesis of a phosphomolybdate with a tetranuclear vanadium core by installing vanadium atoms in a lacunary template using the protecting group strategy. <i>Chemical Communications</i> , <b>2021</b> , 57, 7882-7885	5.8	1
8	Supersilyl as an effective monodentate ligand to stabilize four-coordinate manganese(II) complexes. <i>Dalton Transactions</i> , <b>2020</b> , 49, 17537-17541	4.3	0
7	Ligand-Directed Approach in Polyoxometalate Synthesis: Formation of a New Divacant Lacunary Polyoxomolybdate [PMo <sub>10</sub> O <sub>36</sub> ] <sup>7-</sup> . <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7036-7040	3.6	0

6	Selective primary aniline synthesis through supported Pd-catalyzed acceptorless dehydrogenative aromatization by utilizing hydrazine. <i>Chemical Communications</i> , <b>2021</b> , 57, 6530-6533	5.8	o
5	Selective oxidation of methane into formaldehyde and carbon monoxide catalyzed by supported thermally stable iron oxide subnanoclusters prepared from a diiron-introduced polyoxometalate precursor. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121420	21.8	o
4	Direct Synthesis of Highly Designable Hybrid Metal Hydroxide Nanosheets by Using Tripodal Ligands as One-Size-Fits-All Modifiers. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4949-4949	4.8	
3	Titelbild: Catalytic Oxidative Synthesis of Nitriles Directly from Primary Alcohols and Ammonia (Angew. Chem. 34/2009). <i>Angewandte Chemie</i> , <b>2009</b> , 121, 6291-6291	3.6	
2	Precise Design of Polyoxometalates and their Application to Photocatalyst. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , <b>2022</b> , 80, 149-157	0.2	
1	Dehydrogenative Aromatization Reactions by Supported Pd or Au-Pd Alloy Nanoparticles Catalysts. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , <b>2019</b> , 77, 566-575	0.2	