

Tomoo Mizugaki

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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.

192 papers	10,476 citations	58 h-index	97 g-index
284 ext. papers	11,371 ext. citations	6.4 avg, IF	6.05 L-index

#	Paper	IF	Citations
192	Hydroxyapatite-supported palladium nanoclusters: a highly active heterogeneous catalyst for selective oxidation of alcohols by use of molecular oxygen. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10657-66	16.4	830
191	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> , 2000 , 122, 7144-7145	16.4	381
190	Controlled synthesis of hydroxyapatite-supported palladium complexes as highly efficient heterogeneous catalysts. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11572-3	16.4	343
189	Oxidant-free alcohol dehydrogenation using a reusable hydrotalcite-supported silver nanoparticle catalyst. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 138-41	16.4	239
188	Design of a silver-cerium dioxide core-shell nanocomposite catalyst for chemoselective reduction reactions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 136-9	16.4	230
187	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, 481-5	16.4	225
186	A ruthenium-grafted hydrotalcite as a multifunctional catalyst for direct alpha-alkylation of nitriles with primary alcohols. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5662-3	16.4	214
185	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> , 2001 , 461-462	5.8	199
184	Nucleophilic substitution reactions of alcohols with use of montmorillonite catalysts as solid Brønsted acids. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6006-15	4.2	181
183	Efficient Aerobic Oxidation of Alcohols using a Hydrotalcite-Supported Gold Nanoparticle Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 1890-1896	5.6	178
182	An acidic layered clay is combined with a basic layered clay for one-pot sequential reactions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9674-5	16.4	165
181	Supported silver-nanoparticle-catalyzed highly efficient aqueous oxidation of phenylsilanes to silanols. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7938-40	16.4	160
180	Copper nanoparticles on hydrotalcite as a heterogeneous catalyst for oxidant-free dehydrogenation of alcohols. <i>Chemical Communications</i> , 2008 , 4804-6	5.8	158
179	Supported silver nanoparticle catalyst for selective hydration of nitriles to amides in water. <i>Chemical Communications</i> , 2009 , 3258-60	5.8	155
178	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, 13452-5	16.4	154
177	Highly selective hydrogenolysis of glycerol to 1,3-propanediol over a boehmite-supported platinum/tungsten catalyst. <i>ChemSusChem</i> , 2013 , 6, 1345-7	8.3	136
176	Development of Ruthenium/Hydroxyapatite-Encapsulated Superparamagnetic γ -Fe ₂ O ₃ Nanocrystallites as an Efficient Oxidation Catalyst by Molecular Oxygen. <i>Chemistry of Materials</i> , 2007 , 19, 1249-1256	9.6	128

175	Metal-ligand core-shell nanocomposite catalysts for the selective semihydrogenation of alkynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1481-5	16.4	125
174	Supported gold nanoparticle catalyst for the selective oxidation of silanes to silanols in water. <i>Chemical Communications</i> , 2009 , 5302-4	5.8	125
173	Design of High-Performance Heterogeneous Metal Catalysts for Green and Sustainable Chemistry. <i>Bulletin of the Chemical Society of Japan</i> , 2006 , 79, 981-1016	5.1	125
172	Brønsted acid mediated heterogeneous addition reaction of 1,3-dicarbonyl compounds to alkenes and alcohols. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2605-9	16.4	123
171	Reconstructed hydrotalcite as a highly active heterogeneous base catalyst for carbon-carbon bond formations in the presence of water. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5440-7	4.2	123
170	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	10	119
169	Dendritic Nanoreactors Encapsulating Pd Particles for Substrate-Specific Hydrogenation of Olefins. <i>Nano Letters</i> , 2002 , 2, 999-1002	11.5	116
168	Hydroxyapatite-bound cationic ruthenium complexes as novel heterogeneous lewis acid catalysts for Diels-Alder and aldol reactions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11460-1	16.4	115
167	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	10	111
166	Supramolecular catalysts by encapsulating palladium complexes within dendrimers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1604-5	16.4	111
165	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 - International Edition</i> , 2011 , 50, 2986-9	16.4	108
164	Design of Core-Pd/Shell-Ag Nanocomposite Catalyst for Selective Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , 2016 , 6, 666-670	13.1	107
163	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	8.3	107
162	Supported gold and silver nanoparticles for catalytic deoxygenation of epoxides into alkenes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5545-8	16.4	107
161	Selective hydrogenation of levulinic acid to 1,4-pentanediol in water using a hydroxyapatite-supported Pt ₂ Mo bimetallic catalyst. <i>Green Chemistry</i> , 2015 , 17, 5136-5139	10	104
160	Efficient C-N bond formations catalyzed by a proton-exchanged montmorillonite as a heterogeneous Brønsted acid. <i>Organic Letters</i> , 2006 , 8, 4617-20	6.2	102
159	Multifunctional catalysis of a ruthenium-grafted hydrotalcite: one-pot synthesis of quinolines from 2-aminobenzyl alcohol and various carbonyl compounds via aerobic oxidation and aldol reaction. <i>Tetrahedron Letters</i> , 2004 , 45, 6029-6032	2	101
158	Environmentally friendly one-pot synthesis of alpha-alkylated nitriles using hydrotalcite-supported metal species as multifunctional solid catalysts. <i>Chemistry - A European Journal</i> , 2006 , 12, 8228-39	4.8	100

157	Epoxidation of alpha,beta-unsaturated ketones using hydrogen peroxide in the presence of basic hydrotalcite catalysts. <i>Journal of Organic Chemistry</i> , 2000 , 65, 6897-903	4.2	99
156	Efficient heterogeneous oxidation of organosilanes to silanols catalysed by a hydroxyapatite-bound Ru complex in the presence of water and molecular oxygen. <i>New Journal of Chemistry</i> , 2002 , 26, 1536-1538	3.6	97
155	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst. <i>Angewandte Chemie</i> , 2008 , 120, 144-147	3.6	95
154	Highly efficient oxidation of alcohols to carbonyl compounds in the presence of molecular oxygen using a novel heterogeneous ruthenium catalyst. <i>Tetrahedron Letters</i> , 2002 , 43, 7179-7183	2	95
153	Heterotrimetallic RuMnMn species on a hydrotalcite surface as highly efficient heterogeneous catalysts for liquid-phase oxidation of alcohols with molecular oxygen. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3423-6	16.4	93
152	Highly efficient dehydrogenation of indolines to indoles using hydroxyapatite-bound Pd catalyst. <i>Tetrahedron Letters</i> , 2003 , 44, 6207-6210	2	89
151	Highly efficient gold nanoparticle catalyzed deoxygenation of amides, sulfoxides, and pyridine N-oxides. <i>Chemistry - A European Journal</i> , 2011 , 17, 1768-72	4.8	86
150	Development of concerto metal catalysts using apatite compounds for green organic syntheses. <i>Energy and Environmental Science</i> , 2009 , 2, 655	35.4	86
149	Highly efficient C-C bond-forming reactions in aqueous media catalyzed by monomeric vanadate species in an apatite framework. <i>Journal of Organic Chemistry</i> , 2006 , 71, 7455-62	4.2	85
148	A single-site hydroxyapatite-bound zinc catalyst for highly efficient chemical fixation of carbon dioxide with epoxides. <i>Chemical Communications</i> , 2005 , 3331-3	5.8	81
147	A novel montmorillonite-enwrapped scandium as a heterogeneous catalyst for Michael reaction. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10486-7	16.4	81
146	Supported Silver-Nanoparticle-Catalyzed Highly Efficient Aqueous Oxidation of Phenylsilanes to Silanols. <i>Angewandte Chemie</i> , 2008 , 120, 8056-8058	3.6	77
145	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, 1238-40	16.4	71
144	Montmorillonite-entrapped sub-nanoordered Pd clusters as a heterogeneous catalyst for allylic substitution reactions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3288-90	16.4	71
143	Highly active trimetallic Ru/CeO ₂ /CoO(OH) catalyst for oxidation of alcohols in the presence of molecular oxygen. <i>Journal of Molecular Catalysis A</i> , 2004 , 212, 161-170		69
142	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. <i>Angewandte Chemie</i> , 2006 , 118, 495-499	3.6	65
141	Highly selective oxidation of allylic alcohols catalysed by monodispersed 8-shell Pd nanoclusters in the presence of molecular oxygen. <i>New Journal of Chemistry</i> , 2003 , 27, 324-328	3.6	65
140	Highly efficient esterification of carboxylic acids with alcohols by montmorillonite-enwrapped titanium as a heterogeneous acid catalyst. <i>Tetrahedron Letters</i> , 2003 , 44, 9205-9208	2	63

139	Highly efficient heterogeneous acetalization of carbonyl compounds catalyzed by a titanium cation-exchanged montmorillonite. <i>Tetrahedron Letters</i> , 2001 , 42, 8329-8332	2	61
138	PAMAM dendron-stabilised palladium nanoparticles: effect of generation and peripheral groups on particle size and hydrogenation activity. <i>Chemical Communications</i> , 2008 , 241-3	5.8	59
137	One-Pot Transformation of Levulinic Acid to 2-Methyltetrahydrofuran Catalyzed by PtMo/H-In Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 682-685	8.3	59
136	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9381-9385	16.4	58
135	Monomeric metal aqua complexes in the interlayer space of montmorillonites as strong Lewis acid catalysts for heterogeneous carbon-carbon bond-forming reactions. <i>Chemistry - A European Journal</i> , 2004 , 11, 288-97	4.8	58
134	Novel catalysis of dendrimer-bound Pd(0) complexes: sterically steered allylic amination and the first application for a thermomorphic system. <i>Chemical Communications</i> , 2002 , 52-3	5.8	58
133	Environmentally friendly alcohol oxidation using heterogeneous catalyst in the presence of air at room temperature. <i>Catalysis Communications</i> , 2002 , 3, 511-517	3.2	58
132	Highly efficient dehalogenation using hydroxyapatite-supported palladium nanocluster catalyst with molecular hydrogen. <i>Green Chemistry</i> , 2004 , 6, 507	10	53
131	Catalysis of dendrimer-bound Pd(II) complex: Selective hydrogenation of conjugated dienes to monoenes. <i>Journal of Molecular Catalysis A</i> , 1999 , 145, 329-333		53
130	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Catalyzed by Pt Nanoparticles/AlOx/WO ₃ . <i>Chemistry Letters</i> , 2012 , 41, 1720-1722	1.7	52
129	Supported monomeric vanadium catalyst for dehydration of amides to form nitriles. <i>Chemical Communications</i> , 2010 , 46, 8243-5	5.8	51
128	Catalyst design of hydrotalcite compounds for efficient oxidations. <i>Catalysis Surveys From Asia</i> , 2000 , 4, 31-38		50
127	Simple and clean synthesis of 9,9-bis[4-(2-hydroxyethoxy)phenyl]fluorene from the aromatic alkylation of phenoxyethanol with fluorene-9-one catalysed by titanium cation-exchanged montmorillonite. <i>Green Chemistry</i> , 2000 , 2, 157-160	10	50
126	Core-shell AgNP@CeO ₂ nanocomposite catalyst for highly chemoselective reductions of unsaturated aldehydes. <i>Chemistry - A European Journal</i> , 2013 , 19, 5255-8	4.8	49
125	One-pot synthesis of α -alkylated nitriles with carbonyl compounds through consecutive aldol reaction/hydrogenation using a hydrotalcite-supported palladium nanoparticle as a multifunctional heterogeneous catalyst. <i>Tetrahedron Letters</i> , 2005 , 46, 5507-5510	2	48
124	Highly Efficient Pd/SiO ₂ /Dimethyl Sulfoxide Catalyst System for Selective Semihydrogenation of Alkynes. <i>Chemistry Letters</i> , 2011 , 40, 405-407	1.7	47
123	Reusable montmorillonite-entrapped organocatalyst for asymmetric Diels-Alder reaction. <i>Tetrahedron Letters</i> , 2008 , 49, 5464-5466	2	46
122	Room-temperature deoxygenation of epoxides with CO catalyzed by hydrotalcite-supported gold nanoparticles in water. <i>Chemistry - A European Journal</i> , 2010 , 16, 11818-21	4.8	45

121	Creation of monomeric La complexes on apatite surfaces and their application as heterogeneous catalysts for Michael reactions. <i>New Journal of Chemistry</i> , 2006 , 30, 44-52	3.6	45
120	Highly efficient epoxidation of α,β -unsaturated ketones by hydrogen peroxide with a base hydrotalcite catalyst prepared from metal oxides. <i>Tetrahedron Letters</i> , 2002 , 43, 6229-6232	2	45
119	Fine Tuning of Pd0 Nanoparticle Formation on Hydroxyapatite and Its Application for Regioselective Quinoline Hydrogenation. <i>Chemistry Letters</i> , 2010 , 39, 832-834	1.7	41
118	Hydrogenation of sulfoxides to sulfides under mild conditions using ruthenium nanoparticle catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8348-51	16.4	40
117	Highly atom-efficient oxidation of electron-deficient internal olefins to ketones using a palladium catalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5961-4	16.4	40
116	Chemoselective Transfer Hydrogenation of α,β -Unsaturated Aldehydes to Allylic Alcohols Using Formic Acid Catalyzed by Polymer-Bound Rh Carbonyl Clusters. <i>Journal of Organic Chemistry</i> , 1998 , 63, 2378-2381	4.2	40
115	Catalytic investigations of carbon-carbon bond-forming reactions by a hydroxyapatite-bound palladium complex. <i>New Journal of Chemistry</i> , 2005 , 29, 1174	3.6	39
114	Highly Chemoselective Reduction of Nitroaromatic Compounds Using a Hydrotalcite-supported Silver-nanoparticle Catalyst under a CO Atmosphere. <i>Chemistry Letters</i> , 2010 , 39, 223-225	1.7	38
113	Development of heterogeneous olympic medal metal nanoparticle catalysts for environmentally benign molecular transformations based on the surface properties of hydrotalcite. <i>Molecules</i> , 2010 , 15, 8988-9007	4.8	37
112	Creation of a chain-like cationic iron species in montmorillonite as a highly active heterogeneous catalyst for alkane oxygenations using hydrogen peroxide. <i>Chemical Communications</i> , 2002 , 690-1	5.8	37
111	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	5.2	34
110	Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes. <i>Angewandte Chemie</i> , 2010 , 122, 5677-5680	3.6	34
109	Selective deoxygenation of styrene oxides under a CO atmosphere using silver nanoparticle catalyst. <i>Tetrahedron Letters</i> , 2010 , 51, 5466-5468	2	34
108	Novel Preparation of Palladium Nanoclusters Using Metal Nitrates and Their Catalysis for Oxidative Acetoxylation of Toluene in the Presence of Molecular Oxygen. <i>Langmuir</i> , 2002 , 18, 1849-1855	4	34
107	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	13.1	33
106	Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions. <i>Angewandte Chemie</i> , 2010 , 122, 1260-1262	3.6	33
105	Nanoscale Palladium Cluster Immobilized on a TiO ₂ Surface as an Efficient Catalyst for Liquid-phase Wacker Oxidation of Higher Terminal Olefins. <i>Chemistry Letters</i> , 2003 , 32, 180-181	1.7	32
104	Design of high-performance heterogeneous catalysts using hydrotalcite for selective organic transformations. <i>Green Chemistry</i> , 2019 , 21, 1361-1389	10	31

103	Direct synthesis of unsymmetrical ethers from alcohols catalyzed by titanium cation-exchanged montmorillonite. <i>Green Chemistry</i> , 2012 , 14, 610	10	31
102	Highly efficient Wacker oxidation catalyzed by heterogeneous Pd montmorillonite under acid-free conditions. <i>Tetrahedron Letters</i> , 2006 , 47, 1425-1428	2	31
101	Design of hydroxyapatite-bound transition metal catalysts for environmentally-benign organic syntheses. <i>Catalysis Surveys From Asia</i> , 2004 , 8, 231-239	2.8	29
100	A cobalt phosphide catalyst for the hydrogenation of nitriles. <i>Chemical Science</i> , 2020 , 11, 6682-6689	9.4	28
99	Highly Efficient Deprotection of Acetals by Titanium Cation-exchanged Montmorillonite as a Strong Solid Acid Catalyst. <i>Chemistry Letters</i> , 2003 , 32, 648-649	1.7	28
98	Efficient deprotection of N-benzyloxycarbonyl group from amino acids by hydroxyapatite-bound Pd catalyst in the presence of molecular hydrogen. <i>Tetrahedron Letters</i> , 2003 , 44, 4981-4984	2	28
97	Design of a Silver-Cerium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions. <i>Angewandte Chemie</i> , 2012 , 124, 140-143	3.6	27
96	Bristed Acid Mediated Heterogeneous Addition Reaction of 1,3-Dicarbonyl Compounds to Alkenes and Alcohols. <i>Angewandte Chemie</i> , 2006 , 118, 2667-2671	3.6	27
95	Highly efficient etherification of silanes by using a gold nanoparticle catalyst: remarkable effect of O(2). <i>Chemistry - A European Journal</i> , 2013 , 19, 14398-402	4.8	26
94	Investigation of size-dependent properties of sub-nanometer palladium clusters encapsulated within a polyamine dendrimer. <i>Chemical Communications</i> , 2013 , 49, 167-9	5.8	26
93	Design of High-Performance Heterogeneous Catalysts using Apatite Compounds for Liquid-Phase Organic Syntheses. <i>ACS Catalysis</i> , 2017 , 7, 920-935	13.1	25
92	Simple and clean synthesis of ketones from internal olefins using PdCl ₂ /N,N-dimethylacetamide catalyst system. <i>Tetrahedron Letters</i> , 2013 , 54, 1596-1598	2	25
91	Montmorillonite-Entrapped Sub-nanoordered Pd Clusters as a Heterogeneous Catalyst for Allylic Substitution Reactions. <i>Angewandte Chemie</i> , 2007 , 119, 3352-3354	3.6	24
90	Michael reaction of 1,3-dicarbonyls with enones catalyzed by a hydroxyapatite-bound La complex. <i>Tetrahedron Letters</i> , 2005 , 46, 4283-4286	2	23
89	Metal-Ligand Core-Shell Nanocomposite Catalysts for the Selective Semihydrogenation of Alkynes. <i>Angewandte Chemie</i> , 2013 , 125, 1521-1525	3.6	21
88	Creation of a high-valent manganese species on hydrotalcite and its application to the catalytic aerobic oxidation of alcohols. <i>Green Chemistry</i> , 2010 , 12, 2142	10	21
87	Palladium-Platinum Bimetallic Nanoparticle Catalysts Using Dendron Assembly for Selective Hydrogenation of Dienes and Their Application to Thermomorphic System. <i>Chemistry Letters</i> , 2005 , 34, 272-273	1.7	21
86	Heterotrimetallic RuMnMn Species on a Hydrotalcite Surface as Highly Efficient Heterogeneous Catalysts for Liquid-Phase Oxidation of Alcohols with Molecular Oxygen. <i>Angewandte Chemie</i> , 2005 , 117, 3489-3492	3.6	21

85	A rhodium-grafted hydrotalcite as a highly efficient heterogeneous catalyst for 1,4-addition of organoboron reagents to α,β -unsaturated carbonyl compounds. <i>Tetrahedron Letters</i> , 2006 , 47, 5083-5087	2	20
84	Oxidation of benzyl alcohol aiming at a greener reaction. <i>Reaction Kinetics and Catalysis Letters</i> , 2003 , 78, 73-80		20
83	Heterogeneous N-oxidation of pyridines using a combined oxidant of hydrogen peroxide and nitriles catalysed by basic hydrotalcites. <i>New Journal of Chemistry</i> , 1999 , 23, 799-801	3.6	20
82	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. <i>ACS Catalysis</i> , 2021 , 11, 750-757	13.1	20
81	Gold nanoparticle-catalyzed cyclocarbonylation of 2-aminophenols. <i>Green Chemistry</i> , 2013 , 15, 608	10	19
80	Highly Atom-Efficient Oxidation of Electron-Deficient Internal Olefins to Ketones Using a Palladium Catalyst. <i>Angewandte Chemie</i> , 2013 , 125, 6077-6080	3.6	19
79	Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from CuAl Hydrotalcite. <i>Chemistry Letters</i> , 2013 , 42, 729-731	1.7	19
78	Rhodium-grafted hydrotalcite catalyst for heterogeneous 1,4-addition reaction of organoboron reagents to electron deficient olefins. <i>Green Chemistry</i> , 2011 , 13, 2416	10	19
77	Highly Efficient and Selective Transformations of Glycerol Using Reusable Heterogeneous Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 574-578	8.3	18
76	Unique catalysis of gold nanoparticles in the chemoselective hydrogenolysis with H ₂ : cooperative effect between small gold nanoparticles and a basic support. <i>Chemical Communications</i> , 2012 , 48, 6723-5	5.8	18
75	Reversible Dehydrogenation-Hydrogenation of Tetrahydroquinoline-Quinoline Using a Supported Cooper Nanoparticle Catalyst. <i>Heterocycles</i> , 2010 , 82, 1371	0.8	18
74	Gold nanoparticle-catalyzed environmentally benign deoxygenation of epoxides to alkenes. <i>Molecules</i> , 2011 , 16, 8209-27	4.8	17
73	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> , 2011 , 123, 3042-3045	3.6	17
72	Oxidant-Free Lactonization of Diols Using a Hydrotalcite-Supported Copper Catalyst. <i>Heterocycles</i> , 2010 , 80, 855	0.8	17
71	Preparation of a zeolite X-encapsulated copper(II) chloride complex and its catalysis for liquid-phase oxygenation of enamines in the presence of molecular oxygen. <i>Chemical Communications</i> , 2000 , 869-870	5.8	17
70	Highly efficient dehydrogenative coupling of hydrosilanes with amines or amides using supported gold nanoparticles. <i>Chemistry - A European Journal</i> , 2015 , 21, 3202-5	4.8	16
69	Highly efficient double-carbonylation of amines to oxamides using gold nanoparticle catalysts. <i>Chemical Communications</i> , 2012 , 48, 11733-5	5.8	16
68	Titanium cation-exchanged montmorillonite as an active heterogeneous catalyst for the Beckmann rearrangement under mild reaction conditions. <i>Tetrahedron Letters</i> , 2012 , 53, 5211-5214	2	16

67	Controlled Synthesis of Pd Clusters in Subnanometer Range Using Poly(propylene imine) Dendrimers. <i>Chemistry Letters</i> , 2009 , 38, 1118-1119	1.7	16
66	Liquid-phase Epoxidation of Alkenes Using Molecular Oxygen Catalyzed by Vanadium Cation-exchanged Montmorillonite. <i>Chemistry Letters</i> , 2005 , 34, 1626-1627	1.7	16
65	Catalysis by Polymer-Bound Rhodium Carbonyl Clusters. Selective Hydrogenation of Unsaturated Aldehydes to Allylic Alcohols in the Presence of H ₂ and CO. <i>Organometallics</i> , 1996 , 15, 3247-3249	3.8	16
64	Highly Efficient Deoxygenation of Sulfoxides Using Hydroxyapatite-supported Ruthenium Nanoparticles. <i>Chemistry Letters</i> , 2014 , 43, 420-422	1.7	15
63	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. <i>Angewandte Chemie</i> , 2017 , 129, 9509-9513	3.6	15
62	O ₂ -enhanced Catalytic Activity of Gold Nanoparticles in Selective Oxidation of Hydrosilanes to Silanols. <i>Chemistry Letters</i> , 2015 , 44, 1062-1064	1.7	15
61	Creation of a monomeric vanadate species in an apatite framework as an active heterogeneous base catalyst for Michael reactions in water. <i>Catalysis Today</i> , 2010 , 152, 93-98	5.3	15
60	Clean Synthesis of 3,3',5,5'-Tetra-tert-butyl-4,4'-diphenoquinone from the Oxidative Coupling of 2,6-Di-tert-butylphenol Catalyzed by Alkali-promoted Cu/Mg/Al Hydrotalcites in the Presence of Molecular Oxygen. <i>Chemistry Letters</i> , 2003 , 32, 58-59	1.7	15
59	Subnanoscale Size Effect of Dendrimer-encapsulated Pd Clusters on Catalytic Hydrogenation of Olefin. <i>Chemistry Letters</i> , 2011 , 40, 180-181	1.7	14
58	Recyclable indium catalysts for additions of 1,3-dicarbonyl compounds to unactivated alkynes affected by structure and acid strength of solid supports. <i>Green Chemistry</i> , 2008 , 10, 1231	1.0	14
57	Design of Ruthenium Catalysts Bound to Inorganic Crystalline Materials for Environmentally-Benign Organic Synthesis. <i>Current Organic Chemistry</i> , 2006 , 10, 241-255	1.7	14
56	Self-assembled Dendrimer-bound Pd(II) Complexes via Acid-base Interactions and their Catalysis for Allylic Amination. <i>Chemistry Letters</i> , 2003 , 32, 692-693	1.7	14
55	Selective synthesis of Rh ^I carbonyl clusters within a polyamine dendrimer for chemoselective reduction of nitro aromatics. <i>Chemical Communications</i> , 2014 , 50, 6526-9	5.8	13
54	Dendritic Nanoreactor Encapsulating Rh Complex Catalyst for Hydroformylation. <i>Chemistry Letters</i> , 2005 , 34, 286-287	1.7	13
53	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> , 2016 , 22, 17962-17966	4.8	13
52	Highly Efficient Condensation of Glycerol to Cyclic Acetals Catalyzed by Titanium-Exchanged Montmorillonite. <i>Heterocycles</i> , 2012 , 84, 371	0.8	12
51	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	1.7	12
50	Complete Hydrodechlorination of DDT and Its Derivatives Using a Hydroxyapatite-supported Pd Nanoparticle Catalyst. <i>Chemistry Letters</i> , 2010 , 39, 49-51	1.7	12

49	Hydrogenation of Sulfoxides to Sulfides under Mild Conditions Using Ruthenium Nanoparticle Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 8488-8491	3.6	11
48	Effects of Dissolved and Ambient Gases on Sonochemical Degradation of Methylene Blue in High-Amplitude Resonant Mode. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 4678-4683	1.4	11
47	Shape- and Size-controlled Synthesis of Tetrahedral Pd Nanoparticles Using Tetranuclear Pd Cluster as Precursor. <i>Chemistry Letters</i> , 2006 , 35, 276-277	1.7	11
46	Quaternary Ammonium Dendrimers as Lewis Base Catalysts for MukaiyamaAldol Reaction. <i>Chemistry Letters</i> , 2005 , 34, 420-421	1.7	11
45	Development of High Performance Heterogeneous Catalysts for Selective Cleavage of C-O and C-C Bonds of Biomass-Derived Oxygenates. <i>Chemical Record</i> , 2019 , 19, 1179-1198	6.6	11
44	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of D-glucose to D-sorbitol. <i>Green Chemistry</i> , 2021 , 23, 2010-2016	10	11
43	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. <i>Scientific Reports</i> , 2017 , 7, 14007	4.9	10
42	Wireless electrodeless piezomagnetic biosensor with an isolated nickel oscillator. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 2001-5	11.8	10
41	Highly efficient heterogeneous acylations of aromatic compounds with acid anhydrides and carboxylic acids by montmorillonite-enwrapped titanium as a solid acid catalyst. <i>Research on Chemical Intermediates</i> , 2006 , 32, 305-315	2.8	10
40	Highly atom-efficient and chemoselective reduction of ketones in the presence of aldehydes using heterogeneous catalysts. <i>Green Chemistry</i> , 2013 , 15, 2695	10	9
39	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H pressure. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 8827-8833	3.9	9
38	Air-stable and reusable cobalt ion-doped titanium oxide catalyst for alkene hydrosilylation. <i>Green Chemistry</i> , 2019 , 21, 4566-4570	10	8
37	On-demand Hydrogen Production from Organosilanes at Ambient Temperature Using Heterogeneous Gold Catalysts. <i>Scientific Reports</i> , 2016 , 6, 37682	4.9	8
36	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> , 2021 , 27, 4439-4446	4.8	8
35	Catalysis by polymer-bound Rh6 carbonyl clusters Selective hydrogenation of carbonyl compounds in the presence of CO and H2O. <i>Applied Surface Science</i> , 1997 , 121-122, 360-365	6.7	7
34	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. <i>Jacs Au</i> , 2021 , 1, 501-507		7
33	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 ¹⁰		6
32	Novel Catalysis in the Internal Nanocavity of Polyamine Dendrimer for Intramolecular Michael Reaction. <i>Chemistry Letters</i> , 2012 , 41, 801-803	1.7	6

31	Dimethylaminoethylated hydroxypropyl-chitosan: Preparation and application as polymeric ligand to form Rh ₆ cluster complexes for the reduction of benzaldehyde and nitrobenzene. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 447-453	2.9	6
30	Regioselective oxidative coupling of 2,6-dimethylphenol to tetramethyldiphenquinone using polyamine dendrimer-encapsulated Cu catalysts. <i>RSC Advances</i> , 2013 , 3, 9662	3.7	5
29	INTRAMOLECULAR CYCLIZATION OF ACETYLENIC ACIDS USING DENDRIMER-ENCAPSULATED Pd ₂ ⁺ CATALYSTS. <i>Heterocycles</i> , 2012 , 86, 947	0.8	5
28	A dual-functional heterogeneous ruthenium catalyst for the green one-pot synthesis of biphenols. <i>Catalysis Science and Technology</i> , 2017 , 7, 3205-3209	5.5	4
27	Selective C-C coupling reaction of dimethylphenol to tetramethyldiphenquinone using molecular oxygen catalyzed by Cu complexes immobilized in nanospaces of structurally-ordered materials. <i>Molecules</i> , 2015 , 20, 3089-106	4.8	4
26	Highly Chemoselective Reduction of Aldehyde Function Catalyzed by Polymer-Bound Rh ₆ Cluster Complex under Water-Gas Shift Reaction Conditions. <i>Tetrahedron Letters</i> , 1997 , 38, 3005-3008	2	4
25	XAFS study on active Pr sites in zeolite as a photocatalyst for decomposition of nitrous oxide. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 481-3	2.4	4
24	Synthesis of dimethylaminoethyl chitin and applications as a polymeric ligand to form Rh cluster complexes for the reduction of benzaldehyde and nitrobenzene. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 1431-1435	2.6	4
23	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 ^{1.8}		3
22	Hydrotalcite-bound ruthenium as a multifunctional heterogeneous catalyst for one-pot synthesis of alkylated nitriles and quinolines. <i>Research on Chemical Intermediates</i> , 2008 , 34, 475-486	2.8	3
21	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6347-6354	8.3	3
20	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	3.7	3
19	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	5.5	3
18	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst.. <i>Jacs Au</i> , 2022 , 2, 665-672		3
17	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> , 2012 , 51, 278-278	16.4	2
16	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. <i>Scientific Reports</i> , 2021 , 11, 10673	4.9	2
15	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	2.3	2
14	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton-Exchanged Montmorillonite Catalyst. <i>ChemistrySelect</i> , 2016 , 1, 201-204	1.8	2

13	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	3.9	2
12	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> , 2021 , 9, 11238-11246	8.3	2
11	Reaktitelbild: Design of a Silver-Cerium Dioxide Core-Shell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. 1/2012). <i>Angewandte Chemie</i> , 2012 , 124, 284-284	3.6	1
10	Simple and Efficient 1,3-Isomerization of Allylic Alcohols using a Supported Monomeric Vanadium-Oxide Catalyst. <i>ChemCatChem</i> , 2013 , 5, 2879-2882	5.2	1
9	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> , 2010 , 49, 5390-5390	16.4	1
8	A Single-Site Hydroxyapatite-Bound Zinc Catalyst for Highly Efficient Chemical Fixation of Carbon Dioxide with Epoxides.. <i>ChemInform</i> , 2005 , 36, no		1
7	Synthesis of glycol diesters through the depolymerization of polyethylene glycols with carboxylic acids using a proton-exchanged montmorillonite catalyst. <i>Tetrahedron Letters</i> , 2018 , 59, 832-835	2	0
6	H ₂ -Free Selective Dehydroxymethylation of Primary Alcohols over Palladium Nanoparticle Catalysts. <i>ChemCatChem</i> , 2021 , 13, 1135-1139	5.2	0
5	Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propylene imine)]-Shell [Poly(benzyl ether)] Hybrid Dendrimers. <i>Chemistry Letters</i> , 2013 , 42, 313-315	1.7	
4	Titelbild: Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. 7/2010). <i>Angewandte Chemie</i> , 2010 , 122, 1189-1189	3.6	
3	Innentitelbild: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. 32/2010). <i>Angewandte Chemie</i> , 2010 , 122, 5518-5518	3.6	
2	Cover Picture: Wacker-Type Oxidation of Internal Olefins Using a PdCl ₂ /N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. Int. Ed. 7/2010). <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1169-1169	16.4	
1	Palladium Nanoclusters3532-3539		