Tomoo Mizugaki

List of Publications by Year in Descending Order

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	Selective Hydrodeoxygenation of Esters to Unsymmetrical Ethers over a Zirconium Oxide-Supported Pt-Mo Catalyst.. *Jacs Au*, **2022**, 2, 665-672		3
191	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6347-6354	8.3	3
190	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. *Jacs Au*, **2021**, 1, 501-507		7
189	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. *Scientific Reports*, **2021**, 11, 10673	4.9	2
188	Efficient D-Xylose Hydrogenation to D-Xylitol over a Hydrotalcite-Supported Nickel Phosphide Nanoparticle Catalyst. *European Journal of Inorganic Chemistry*, **2021**, 2021, 3327-3331	2.3	2
187	H2-Free Selective Dehydroxymethylation of Primary Alcohols over Palladium Nanoparticle Catalysts. *ChemCatChem*, **2021**, 13, 1135-1139	5.2	0
186	Ni P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: P-Alloying Strategy for Designing Smart Catalysts. *Chemistry - A European Journal*, **2021**, 27, 4439-4446	4.8	8
185	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. *ACS Catalysis*, **2021**, 11, 750-757	13.1	20
184	A copper nitride catalyst for the efficient hydroxylation of aryl halides under ligand-free conditions. *Organic and Biomolecular Chemistry*, **2021**, 19, 6593-6597	3.9	2
183	Hydrotalcite-Supported Cobalt Phosphide Nanorods as a Highly Active and Reusable Heterogeneous Catalyst for Ammonia-Free Selective Hydrogenation of Nitriles to Primary Amines. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11238-11246	8.3	2
182	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of D-glucose to D-sorbitol. *Green Chemistry*, **2021**, 23, 2010-2016	10	11
181	A cobalt phosphide catalyst for the hydrogenation of nitriles. *Chemical Science*, **2020**, 11, 6682-6689	9.4	28
180	Unique Catalysis of Nickel Phosphide Nanoparticles to Promote the Selective Transformation of Biofuranic Aldehydes into Diketones in Water. *ACS Catalysis*, **2020**, 10, 4261-4267	13.1	33
179	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H pressure. *Organic and Biomolecular Chemistry*, **2020**, 18, 8827-8833	3.9	9
178	Design of high-performance heterogeneous catalysts using hydrotalcite for selective organic transformations. *Green Chemistry*, **2019**, 21, 1361-1389	10	31
177	Air-stable and reusable cobalt ion-doped titanium oxide catalyst for alkene hydrosilylation. *Green Chemistry*, **2019**, 21, 4566-4570	10	8
176	Efficient Synthesis of Benzofurans via Cross-Coupling of Catechols with Hydroxycoumarins Using O2 as an Oxidant Catalyzed by AlPO4-Supported Rh Nanoparticle. *ChemistrySelect*, **2019**, 4, 11394-11397	1.8	3

175	Development of High Performance Heterogeneous Catalysts for Selective Cleavage of C-O and C-C Bonds of Biomass-Derived Oxygenates. *Chemical Record*, **2019**, 19, 1179-1198	6.6	11
174	Synthesis of glycol diesters through the depolymerization of polyethylene glycols with carboxylic acids using a proton-exchanged montmorillonite catalyst. *Tetrahedron Letters*, **2018**, 59, 832-835	2	0
173	Oxidative cross-coupling reaction of catechols with active methylene compounds in an aqueous medium using an AlPO4-supported Ru catalyst. *Catalysis Science and Technology*, **2018**, 8, 5401-5405	5.5	3
172	Effective management of polyethers through depolymerization to symmetric and unsymmetric glycol diesters using a proton-exchanged montmorillonite catalyst. *Green Chemistry*, **2017**, 19, 2612-2619	10	6
171	A Titanium Dioxide Supported Gold Nanoparticle Catalyst for the Selective N-Formylation of Functionalized Amines with Carbon Dioxide and Hydrogen. *ChemCatChem*, **2017**, 9, 3632-3636	5.2	34
170	Design of High-Performance Heterogeneous Catalysts using Apatite Compounds for Liquid-Phase Organic Syntheses. *ACS Catalysis*, **2017**, 7, 920-935	13.1	25
169	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. *Scientific Reports*, **2017**, 7, 14007	4.9	10
168	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. *Angewandte Chemie*, **2017**, 129, 9509-9513	3.6	15
167	Mild Hydrogenation of Amides to Amines over a Platinum-Vanadium Bimetallic Catalyst. *Angewandte Chemie - International Edition*, **2017**, 56, 9381-9385	16.4	58
166	A dual-functional heterogeneous ruthenium catalyst for the green one-pot synthesis of biphenols. *Catalysis Science and Technology*, **2017**, 7, 3205-3209	5.5	4
165	Design of Core-Pd/Shell-Ag Nanocomposite Catalyst for Selective Semihydrogenation of Alkynes. *ACS Catalysis*, **2016**, 6, 666-670	13.1	107
164	On-demand Hydrogen Production from Organosilanes at Ambient Temperature Using Heterogeneous Gold Catalysts. *Scientific Reports*, **2016**, 6, 37682	4.9	8
163	Synthesis of tetraline derivatives through depolymerization of polyethers with aromatic compounds using a heterogeneous titanium-exchanged montmorillonite catalyst. *RSC Advances*, **2016**, 6, 89231-89233	3.7	3
162	One-Pot Transformation of Levulinic Acid to 2-Methyltetrahydrofuran Catalyzed by Pt□Mo/H-□n Water. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 682-685	8.3	59
161	Green, Multi-Gram One-Step Synthesis of Core-Shell Nanocomposites in Water and Their Catalytic Application to Chemoselective Hydrogenations. *Chemistry - A European Journal*, **2016**, 22, 17962-17966	4.8	13
160	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton□xchanged Montmorillonite Catalyst. *ChemistrySelect*, **2016**, 1, 201-204	1.8	2
159	One-step Synthesis of Core-Gold/Shell-Ceria Nanomaterial and Its Catalysis for Highly Selective Semihydrogenation of Alkynes. *Journal of the American Chemical Society*, **2015**, 137, 13452-5	16.4	154
158	Selective hydrogenation of levulinic acid to 1,4-pentanediol in water using a hydroxyapatite-supported Pt□Mo bimetallic catalyst. *Green Chemistry*, **2015**, 17, 5136-5139	10	104

157	O2-enhanced Catalytic Activity of Gold Nanoparticles in Selective Oxidation of Hydrosilanes to Silanols. *Chemistry Letters*, **2015**, 44, 1062-1064	1.7	15
156	Highly efficient dehydrogenative coupling of hydrosilanes with amines or amides using supported gold nanoparticles. *Chemistry - A European Journal*, **2015**, 21, 3202-5	4.8	16
155	Selective C-C coupling reaction of dimethylphenol to tetramethyldiphenoquinone using molecular oxygen catalyzed by Cu complexes immobilized in nanospaces of structurally-ordered materials. *Molecules*, **2015**, 20, 3089-106	4.8	4
154	Highly Efficient and Selective Transformations of Glycerol Using Reusable Heterogeneous Catalysts. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 574-578	8.3	18
153	Hydrogenation of sulfoxides to sulfides under mild conditions using ruthenium nanoparticle catalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 8348-51	16.4	40
152	Selective synthesis of Rh5 carbonyl clusters within a polyamine dendrimer for chemoselective reduction of nitro aromatics. *Chemical Communications*, **2014**, 50, 6526-9	5.8	13
151	Direct Transformation of Furfural to 1,2-Pentanediol Using a Hydrotalcite-Supported Platinum Nanoparticle Catalyst. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2243-2247	8.3	107
150	Highly Efficient Deoxygenation of Sulfoxides Using Hydroxyapatite-supported Ruthenium Nanoparticles. *Chemistry Letters*, **2014**, 43, 420-422	1.7	15
149	Hydrogenation of Sulfoxides to Sulfides under Mild Conditions Using Ruthenium Nanoparticle Catalysts. *Angewandte Chemie*, **2014**, 126, 8488-8491	3.6	11
148	Highly atom-efficient and chemoselective reduction of ketones in the presence of aldehydes using heterogeneous catalysts. *Green Chemistry*, **2013**, 15, 2695	10	9
147	Regioselective oxidative coupling of 2,6-dimethylphenol to tetramethyldiphenoquinone using polyamine dendrimer-encapsulated Cu catalysts. *RSC Advances*, **2013**, 3, 9662	3.7	5
146	Highly efficient etherification of silanes by using a gold nanoparticle catalyst: remarkable effect of O(2). *Chemistry - A European Journal*, **2013**, 19, 14398-402	4.8	26
145	Gold nanoparticle-catalyzed cyclocarbonylation of 2-aminophenols. *Green Chemistry*, **2013**, 15, 608	10	19
144	Metal□ligand Core□Shell Nanocomposite Catalysts for the Selective Semihydrogenation of Alkynes. *Angewandte Chemie*, **2013**, 125, 1521-1525	3.6	21
143	Metal-ligand core-shell nanocomposite catalysts for the selective semihydrogenation of alkynes. *Angewandte Chemie - International Edition*, **2013**, 52, 1481-5	16.4	125
142	Simple and clean synthesis of ketones from internal olefins using PdCl2/N,N-dimethylacetamide catalyst system. *Tetrahedron Letters*, **2013**, 54, 1596-1598	2	25
141	Investigation of size-dependent properties of sub-nanometer palladium clusters encapsulated within a polyamine dendrimer. *Chemical Communications*, **2013**, 49, 167-9	5.8	26
140	Highly atom-efficient oxidation of electron-deficient internal olefins to ketones using a palladium catalyst. *Angewandte Chemie - International Edition*, **2013**, 52, 5961-4	16.4	40

139	Simple and Efficient 1,3-Isomerization of Allylic Alcohols using a Supported Monomeric Vanadium-Oxide Catalyst. *ChemCatChem*, **2013**, 5, 2879-2882	5.2	1
138	Highly selective hydrogenolysis of glycerol to 1,3-propanediol over a boehmite-supported platinum/tungsten catalyst. *ChemSusChem*, **2013**, 6, 1345-7	8.3	136
137	Highly Atom-Efficient Oxidation of Electron-Deficient Internal Olefins to Ketones Using a Palladium Catalyst. *Angewandte Chemie*, **2013**, 125, 6077-6080	3.6	19
136	Core-shell AgNP@CeO2 nanocomposite catalyst for highly chemoselective reductions of unsaturated aldehydes. *Chemistry - A European Journal*, **2013**, 19, 5255-8	4.8	49
135	Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propylene imine)]Shell [Poly(benzyl ether)] Hybrid Dendrimers. *Chemistry Letters*, **2013**, 42, 313-315	1.7	
134	Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from CuAl Hydrotalcite. *Chemistry Letters*, **2013**, 42, 729-731	1.7	19
133	Remarkable Effect of Bases on CoreShell AgNP@CeO2 Nanocomposite-catalyzed Highly Chemoselective Reduction of Unsaturated Aldehydes. *Chemistry Letters*, **2013**, 42, 660-662	1.7	12
132	Design of a SilverCerium Dioxide CoreShell Nanocomposite Catalyst for Chemoselective Reduction Reactions. *Angewandte Chemie*, **2012**, 124, 140-143	3.6	27
131	Rücktitelbild: Design of a SilverCerium Dioxide CoreShell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. 1/2012). *Angewandte Chemie*, **2012**, 124, 284-284	3.6	1
130	Design of a silver-cerium dioxide core-shell nanocomposite catalyst for chemoselective reduction reactions. *Angewandte Chemie - International Edition*, **2012**, 51, 136-9	16.4	230
129	Back Cover: Design of a SilverCerium Dioxide CoreShell Nanocomposite Catalyst for Chemoselective Reduction Reactions (Angew. Chem. Int. Ed. 1/2012). *Angewandte Chemie - International Edition*, **2012**, 51, 278-278	16.4	2
128	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Catalyzed by Pt NanoparticlesAlOx/WO3. *Chemistry Letters*, **2012**, 41, 1720-1722	1.7	52
127	Novel Catalysis in the Internal Nanocavity of Polyamine Dendrimer for Intramolecular Michael Reaction. *Chemistry Letters*, **2012**, 41, 801-803	1.7	6
126	INTRAMOLECULAR CYCLIZATION OF ACETYLENIC ACIDS USING DENDRIMER-ENCAPSULATED Pd2+ CATALYSTS. *Heterocycles*, **2012**, 86, 947	0.8	5
125	Highly Efficient Condensation of Glycerol to Cyclic Acetals Catalyzed by Titanium-Exchanged Montmorillonite. *Heterocycles*, **2012**, 84, 371	0.8	12
124	Unique catalysis of gold nanoparticles in the chemoselective hydrogenolysis with H2: cooperative effect between small gold nanoparticles and a basic support. *Chemical Communications*, **2012**, 48, 6723-5	5.8	18
123	Highly efficient double-carbonylation of amines to oxamides using gold nanoparticle catalysts. *Chemical Communications*, **2012**, 48, 11733-5	5.8	16
122	Titanium cation-exchanged montmorillonite as an active heterogeneous catalyst for the Beckmann rearrangement under mild reaction conditions. *Tetrahedron Letters*, **2012**, 53, 5211-5214	2	16

121	Direct synthesis of unsymmetrical ethers from alcohols catalyzed by titanium cation-exchanged montmorillonite. *Green Chemistry*, **2012**, 14, 610	10	31
120	Subnanoscale Size Effect of Dendrimer-encapsulated Pd Clusters on Catalytic Hydrogenation of Olefin. *Chemistry Letters*, **2011**, 40, 180-181	1.7	14
119	Highly Efficient Pd/SiO2Dimethyl Sulfoxide Catalyst System for Selective Semihydrogenation of Alkynes. *Chemistry Letters*, **2011**, 40, 405-407	1.7	47
118	Gold nanoparticle-catalyzed environmentally benign deoxygenation of epoxides to alkenes. *Molecules*, **2011**, 16, 8209-27	4.8	17
117	Selective Deoxygenation of Epoxides to Alkenes with Molecular Hydrogen Using a Hydrotalcite-Supported Gold Catalyst: A Concerted Effect between Gold Nanoparticles and Basic Sites on a Support. *Angewandte Chemie*, **2011**, 123, 3042-3045	3.6	17
116	Selective deoxygenation of epoxides to alkenes with molecular hydrogen using a hydrotalcite-supported gold catalyst: a concerted effect between gold nanoparticles and basic sites on a support. *Angewandte Chemie - International Edition*, **2011**, 50, 2986-9	16.4	108
115	Highly efficient gold nanoparticle catalyzed deoxygenation of amides, sulfoxides, and pyridine N-oxides. *Chemistry - A European Journal*, **2011**, 17, 1768-72	4.8	86
114	Rhodium-grafted hydrotalcite catalyst for heterogeneous 1,4-addition reaction of organoboron reagents to electron deficient olefins. *Green Chemistry*, **2011**, 13, 2416	10	19
113	Development of heterogeneous olympic medal metal nanoparticle catalysts for environmentally benign molecular transformations based on the surface properties of hydrotalcite. *Molecules*, **2010**, 15, 8988-9007	4.8	37
112	Reversible Dehydrogenation-Hydrogenation of Tetrahydroquinoline-Quinoline Using a Supported Cooper Nanoparticle Catalyst. *Heterocycles*, **2010**, 82, 1371	0.8	18
111	Supported monomeric vanadium catalyst for dehydration of amides to form nitriles. *Chemical Communications*, **2010**, 46, 8243-5	5.8	51
110	Creation of a high-valent manganese species on hydrotalcite and its application to the catalytic aerobic oxidation of alcohols. *Green Chemistry*, **2010**, 12, 2142	10	21
109	Wacker-type oxidation of internal olefins using a PdCl2/N,N-dimethylacetamide catalyst system under copper-free reaction conditions. *Angewandte Chemie - International Edition*, **2010**, 49, 1238-40	16.4	71
108	Oxidant-Free Lactonization of Diols Using a Hydrotalcite-Supported Copper Catalyst. *Heterocycles*, **2010**, 80, 855	0.8	17
107	Fine Tuning of Pd0Nanoparticle Formation on Hydroxyapatite and Its Application for Regioselective Quinoline Hydrogenation. *Chemistry Letters*, **2010**, 39, 832-834	1.7	41
106	Complete Hydrodechlorination of DDT and Its Derivatives Using a Hydroxyapatite-supported Pd Nanoparticle Catalyst. *Chemistry Letters*, **2010**, 39, 49-51	1.7	12
105	Highly Chemoselective Reduction of Nitroaromatic Compounds Using a Hydrotalcite-supported Silver-nanoparticle Catalyst under a CO Atmosphere. *Chemistry Letters*, **2010**, 39, 223-225	1.7	38
104	Room-temperature deoxygenation of epoxides with CO catalyzed by hydrotalcite-supported gold nanoparticles in water. *Chemistry - A European Journal*, **2010**, 16, 11818-21	4.8	45

103	Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions. *Angewandte Chemie*, **2010**, 122, 1260-1262	3.6	33
102	Titelbild: Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. 7/2010). *Angewandte Chemie*, **2010**, 122, 1189-1189	3.6	
101	Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes. *Angewandte Chemie*, **2010**, 122, 5677-5680	3.6	34
100	Innentitelbild: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. 32/2010). *Angewandte Chemie*, **2010**, 122, 5518-5518	3.6	
99	Cover Picture: Wacker-Type Oxidation of Internal Olefins Using a PdCl2/N,N-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions (Angew. Chem. Int. Ed. 7/2010). *Angewandte Chemie - International Edition*, **2010**, 49, 1169-1169	16.4	
98	Supported gold and silver nanoparticles for catalytic deoxygenation of epoxides into alkenes. *Angewandte Chemie - International Edition*, **2010**, 49, 5545-8	16.4	107
97	Inside Cover: Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes (Angew. Chem. Int. Ed. 32/2010). *Angewandte Chemie - International Edition*, **2010**, 49, 5390-5390	16.4	1
96	Selective deoxygenation of styrene oxides under a CO atmosphere using silver nanoparticle catalyst. *Tetrahedron Letters*, **2010**, 51, 5466-5468	2	34
95	Creation of a monomeric vanadate species in an apatite framework as an active heterogeneous base catalyst for Michael reactions in water. *Catalysis Today*, **2010**, 152, 93-98	5.3	15
94	Efficient Aerobic Oxidation of Alcohols using a Hydrotalcite-Supported Gold Nanoparticle Catalyst. *Advanced Synthesis and Catalysis*, **2009**, 351, 1890-1896	5.6	178
93	Supported silver nanoparticle catalyst for selective hydration of nitriles to amides in water. *Chemical Communications*, **2009**, 3258-60	5.8	155
92	Development of concerto metal catalysts using apatite compounds for green organic syntheses. *Energy and Environmental Science*, **2009**, 2, 655	35.4	86
91	Supported gold nanoparticles as a reusable catalyst for synthesis of lactones from diols using molecular oxygen as an oxidant under mild conditions. *Green Chemistry*, **2009**, 11, 793	10	111
90	Supported gold nanoparticle catalyst for the selective oxidation of silanes to silanols in water. *Chemical Communications*, **2009**, 5302-4	5.8	125
89	Controlled Synthesis of Pd Clusters in Subnanometer Range Using Poly(propylene imine) Dendrimers. *Chemistry Letters*, **2009**, 38, 1118-1119	1.7	16
88	Hydrotalcite-bound ruthenium as a multifunctional heterogeneous catalyst for one-pot synthesis of ⊟alkylated nitriles and quinolines. *Research on Chemical Intermediates*, **2008**, 34, 475-486	2.8	3
87	PAMAM dendron-stabilised palladium nanoparticles: effect of generation and peripheral groups on particle size and hydrogenation activity. *Chemical Communications*, **2008**, 241-3	5.8	59
86	Copper nanoparticles on hydrotalcite as a heterogeneous catalyst for oxidant-free dehydrogenation of alcohols. *Chemical Communications*, **2008**, 4804-6	5.8	158

85	Recyclable indium catalysts for additions of 1,3-dicarbonyl compounds to unactivated alkynes affected by structure and acid strength of solid supports. *Green Chemistry*, **2008**, 10, 1231	10	14
84	Oxidant-free alcohol dehydrogenation using a reusable hydrotalcite-supported silver nanoparticle catalyst. *Angewandte Chemie - International Edition*, **2008**, 47, 138-41	16.4	239
83	Supported silver-nanoparticle-catalyzed highly efficient aqueous oxidation of phenylsilanes to silanols. *Angewandte Chemie - International Edition*, **2008**, 47, 7938-40	16.4	160
82	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst. *Angewandte Chemie*, **2008**, 120, 144-147	3.6	95
81	Supported Silver-Nanoparticle-Catalyzed Highly Efficient Aqueous Oxidation of Phenylsilanes to Silanols. *Angewandte Chemie*, **2008**, 120, 8056-8058	3.6	77
80	Reusable montmorillonite-entrapped organocatalyst for asymmetric Diels□Alder reaction. *Tetrahedron Letters*, **2008**, 49, 5464-5466	2	46
79	Montmorillonite-entrapped sub-nanoordered Pd clusters as a heterogeneous catalyst for allylic substitution reactions. *Angewandte Chemie - International Edition*, **2007**, 46, 3288-90	16.4	71
78	Montmorillonite-Entrapped Sub-nanoordered Pd Clusters as a Heterogeneous Catalyst for Allylic Substitution Reactions. *Angewandte Chemie*, **2007**, 119, 3352-3354	3.6	24
77	Nucleophilic substitution reactions of alcohols with use of montmorillonite catalysts as solid Br□sted acids. *Journal of Organic Chemistry*, **2007**, 72, 6006-15	4.2	181
76	Magnetically recoverable heterogeneous catalyst: Palladium nanocluster supported on hydroxyapatite-encapsulated □Fe2O3 nanocrystallites for highly efficient dehalogenation with molecular hydrogen. *Green Chemistry*, **2007**, 9, 1246	10	119
75	Development of Ruthenium□Hydroxyapatite-Encapsulated Superparamagnetic □Fe2O3 Nanocrystallites as an Efficient Oxidation Catalyst by Molecular Oxygen. *Chemistry of Materials*, **2007**, 19, 1249-1256	9.6	128
74	Wireless electrodeless piezomagnetic biosensor with an isolated nickel oscillator. *Biosensors and Bioelectronics*, **2006**, 21, 2001-5	11.8	10
73	Environmentally friendly one-pot synthesis of alpha-alkylated nitriles using hydrotalcite-supported metal species as multifunctional solid catalysts. *Chemistry - A European Journal*, **2006**, 12, 8228-39	4.8	100
72	Convenient and efficient Pd-catalyzed regioselective oxyfunctionalization of terminal olefins by using molecular oxygen as sole reoxidant. *Angewandte Chemie - International Edition*, **2006**, 45, 481-5	16.4	225
71	Br□sted acid mediated heterogeneous addition reaction of 1,3-dicarbonyl compounds to alkenes and alcohols. *Angewandte Chemie - International Edition*, **2006**, 45, 2605-9	16.4	123
70	Convenient and Efficient Pd-Catalyzed Regioselective Oxyfunctionalization of Terminal Olefins by Using Molecular Oxygen as Sole Reoxidant. *Angewandte Chemie*, **2006**, 118, 495-499	3.6	65
69	Br□sted Acid Mediated Heterogeneous Addition Reaction of 1,3-Dicarbonyl Compounds to Alkenes and Alcohols. *Angewandte Chemie*, **2006**, 118, 2667-2671	3.6	27
68	Effects of Dissolved and Ambient Gases on Sonochemical Degradation of Methylene Blue in High-Amplitude Resonant Mode. *Japanese Journal of Applied Physics*, **2006**, 45, 4678-4683	1.4	11

67	Design of Ruthenium Catalysts Bound to Inorganic Crystalline Materials for Environmentally-Benign Organic Synthesis. *Current Organic Chemistry*, **2006**, 10, 241-255	1.7	14
66	Creation of monomeric La complexes on apatite surfaces and their application as heterogeneous catalysts for Michael reactions. *New Journal of Chemistry*, **2006**, 30, 44-52	3.6	45
65	Highly efficient C-C bond-forming reactions in aqueous media catalyzed by monomeric vanadate species in an apatite framework. *Journal of Organic Chemistry*, **2006**, 71, 7455-62	4.2	85
64	Efficient C-N bond formations catalyzed by a proton-exchanged montmorillonite as a heterogeneous Br□sted acid. *Organic Letters*, **2006**, 8, 4617-20	6.2	102
63	Reconstructed hydrotalcite as a highly active heterogeneous base catalyst for carbon-carbon bond formations in the presence of water. *Journal of Organic Chemistry*, **2006**, 71, 5440-7	4.2	123
62	Design of High-Performance Heterogeneous Metal Catalysts for Green and Sustainable Chemistry. *Bulletin of the Chemical Society of Japan*, **2006**, 79, 981-1016	5.1	125
61	Shape- and Size-controlled Synthesis of Tetrahedral Pd Nanoparticles Using Tetranuclear Pd Cluster as Precursor. *Chemistry Letters*, **2006**, 35, 276-277	1.7	11
60	Highly efficient Wacker oxidation catalyzed by heterogeneous Pd montmorillonite under acid-free conditions. *Tetrahedron Letters*, **2006**, 47, 1425-1428	2	31
59	A rhodium-grafted hydrotalcite as a highly efficient heterogeneous catalyst for 1,4-addition of organoboron reagents to □,□-unsaturated carbonyl compounds. *Tetrahedron Letters*, **2006**, 47, 5083-5087	2	20
58	Highly efficient heterogeneous acylations of aromatic compounds with acid anhydrides and carboxylic acids by montmorillonite-enwrapped titanium as a solid acid catalyst. *Research on Chemical Intermediates*, **2006**, 32, 305-315	2.8	10
57	An acidic layered clay is combined with a basic layered clay for one-pot sequential reactions. *Journal of the American Chemical Society*, **2005**, 127, 9674-5	16.4	165
56	Catalytic investigations of carbon□carbon bond-forming reactions by a hydroxyapatite-bound palladium complex. *New Journal of Chemistry*, **2005**, 29, 1174	3.6	39
55	A single-site hydroxyapatite-bound zinc catalyst for highly efficient chemical fixation of carbon dioxide with epoxides. *Chemical Communications*, **2005**, 3331-3	5.8	81
54	Palladium□Platinum Bimetallic Nanoparticle Catalysts Using Dendron Assembly for Selective Hydrogenation of Dienes and Their Application to Thermomorphic System. *Chemistry Letters*, **2005**, 34, 272-273	1.7	21
53	Liquid-phase Epoxidation of Alkenes Using Molecular Oxygen Catalyzed by Vanadium Cation-exchanged Montmorillonite. *Chemistry Letters*, **2005**, 34, 1626-1627	1.7	16
52	Dendritic Nanoreactor Encapsulating Rh Complex Catalyst for Hydroformylation. *Chemistry Letters*, **2005**, 34, 286-287	1.7	13
51	Quaternary Ammonium Dendrimers as Lewis Base Catalysts for Mukaiyama□Aldol Reaction. *Chemistry Letters*, **2005**, 34, 420-421	1.7	11
50	Michael reaction of 1,3-dicarbonyls with enones catalyzed by a hydroxyapatite-bound La complex. *Tetrahedron Letters*, **2005**, 46, 4283-4286	2	23

49	One-pot synthesis of □-alkylated nitriles with carbonyl compounds through consecutive aldol reaction/hydrogenation using a hydrotalcite-supported palladium nanoparticle as a multifunctional heterogeneous catalyst. *Tetrahedron Letters*, **2005**, 46, 5507-5510	2	48
48	Heterotrimetallic RuMnMn species on a hydrotalcite surface as highly efficient heterogeneous catalysts for liquid-phase oxidation of alcohols with molecular oxygen. *Angewandte Chemie - International Edition*, **2005**, 44, 3423-6	16.4	93
47	Heterotrimetallic RuMnMn Species on a Hydrotalcite Surface as Highly Efficient Heterogeneous Catalysts for Liquid-Phase Oxidation of Alcohols with Molecular Oxygen. *Angewandte Chemie*, **2005** , 117, 3489-3492	3.6	21
46	A Single-Site Hydroxyapatite-Bound Zinc Catalyst for Highly Efficient Chemical Fixation of Carbon Dioxide with Epoxides.. *ChemInform*, **2005**, 36, no		1
45	Design of hydroxyapatite-bound transition metal catalysts for environmentally-benign organic syntheses. *Catalysis Surveys From Asia*, **2004**, 8, 231-239	2.8	29
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