

Catherine Pinel

List of Publications by Year in descending order

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123
papers

8,056
citations

76294

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docs citations

137
times ranked

8797
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Frameworks: Opportunities for Catalysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7502-7513.	7.2	1,732
2	Conversion of Biomass into Chemicals over Metal Catalysts. <i>Chemical Reviews</i> , 2014, 114, 1827-1870.	23.0	1,504
3	Glycerol hydrogenolysis on heterogeneous catalysts. <i>Green Chemistry</i> , 2004, 6, 359.	4.6	436
4	Cellulose hydrothermal conversion promoted by heterogeneous Brønsted and Lewis acids: Remarkable efficiency of solid Lewis acids to produce lactic acid. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 171-181.	10.8	229
5	Generic Postfunctionalization Route from Amino-Derived Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2010, 132, 4518-4519.	6.6	181
6	Solvent free base catalysis and transesterification over basic functionalised Metal-Organic Frameworks. <i>Green Chemistry</i> , 2009, 11, 1729.	4.6	135
7	Aqueous-Phase Hydrogenation of Biomass-Based Succinic Acid to 1,4-Butanediol Over Supported Bimetallic Catalysts. <i>Topics in Catalysis</i> , 2010, 53, 1270-1273.	1.3	118
8	Heterogeneous Catalytic Hydrogenation of Biobased Levulinic and Succinic Acids in Aqueous Solutions. <i>ChemSusChem</i> , 2013, 6, 2388-2395.	3.6	114
9	Non-catalyzed and Pt/ γ -Al ₂ O ₃ -catalyzed hydrothermal cellulose dissolution-conversion: influence of the reaction parameters and analysis of the unreacted cellulose. <i>Green Chemistry</i> , 2009, 11, 2052.	4.6	106
10	Unravelling the Mechanism of Glycerol Hydrogenolysis over Rhodium Catalyst through Combined Experimental-Theoretical Investigations. <i>Chemistry - A European Journal</i> , 2011, 17, 14288-14299.	1.7	99
11	Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations. <i>Applied Catalysis A: General</i> , 2011, 402, 1-10.	2.2	82
12	Ionic imprinted resins based on EDTA and DTPA derivatives for lanthanides(III) separation. <i>Analytica Chimica Acta</i> , 2001, 435, 75-82.	2.6	79
13	Effect of Addition Mode of Re in Bimetallic Pd-Re/TiO ₂ Catalysts Upon the Selective Aqueous-Phase Hydrogenation of Succinic Acid to 1,4-Butanediol. <i>Topics in Catalysis</i> , 2012, 55, 466-473.	1.3	78
14	Study of Monometallic Pd/TiO ₂ Catalysts for the Hydrogenation of Succinic Acid in Aqueous Phase. <i>ACS Catalysis</i> , 2013, 3, 2327-2335.	5.5	72
15	Chiral nitrogen-metal complexes for the asymmetric reduction of ketones. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2101-2108.	1.8	71
16	On the role of the atmosphere in the catalytic glycerol transformation over iridium-based catalysts. <i>Catalysis Communications</i> , 2011, 16, 144-149.	1.6	67
17	Evaluation of surface properties and pore structure of carbon on the activity of supported Ru catalysts in the aqueous-phase aerobic oxidation of HMF to FDCA. <i>Applied Catalysis A: General</i> , 2015, 506, 206-219.	2.2	65
18	Ionic imprinting effect in gadolinium/lanthanum separation. <i>Tetrahedron Letters</i> , 1998, 39, 8651-8654.	0.7	64

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19	Green synthesis of xylan hemicellulose esters. Carbohydrate Research, 2011, 346, 2896-2904.	1.1	62
20	From glycerol to lactic acid under inert conditions in the presence of platinum-based catalysts: The influence of support. Catalysis Today, 2015, 257, 267-273.	2.2	61
21	Diastereoselective Hydrogenation of Substituted Aromatics on Supported Metal Catalysts. Journal of Catalysis, 1997, 170, 254-264.	3.1	60
22	Heterogeneous Transformation of Glycerol to Lactic Acid. Topics in Catalysis, 2012, 55, 474-479.	1.3	60
23	Green approach to substituted carbohydrates: telomerisation of butadiene with sucrose. Green Chemistry, 2001, 3, 175-177.	4.6	59
24	Insights into the Oxidation State and Location of Rhenium in Re ϵ Pd/Ti ϵ Catalysts for Aqueous ϵ Phase Selective Hydrogenation of Succinic Acid to 1,4 ϵ Butanediol as a Function of Palladium and Rhenium Deposition Methods. ChemCatChem, 2015, 7, 2161-2178.	1.8	58
25	Aerobic Oxidation of Glucose to Glucaric Acid under Alkaline-Free Conditions: Au-Based Bimetallic Catalysts and the Effect of Residues in a Hemicellulose Hydrolysate. Industrial & Engineering Chemistry Research, 2017, 56, 13175-13189.	1.8	57
26	Preparation and utilization of molecularly imprinted silicas. Advanced Materials, 1997, 9, 582-585.	11.1	56
27	Cationisation of galactomannan and xylan hemicelluloses. Carbohydrate Polymers, 2011, 85, 138-148.	5.1	53
28	From Native Starch to Hydrophilic and Hydrophobic Products: A Catalytic Approach. Topics in Catalysis, 2004, 27, 67-76.	1.3	52
29	Combinatorial synthesis of metal ϵ organic frameworks libraries by click-chemistry. New Journal of Chemistry, 2011, 35, 1892.	1.4	51
30	On the key role of hydroxyl groups in platinum-catalysed alcohol oxidation in aqueous medium. Catalysis Science and Technology, 2013, 3, 339-350.	2.1	51
31	Sustainability metrics for a fossil- and renewable-based route for 1,2-propanediol production: A comparison. Catalysis Today, 2015, 239, 31-37.	2.2	51
32	Catalytic transformation of glycerol on several metal systems supported on ZnO. Catalysis Today, 2012, 196, 91-100.	2.2	49
33	Palladium-Catalyzed Telomerization of Butadiene with Starch. Advanced Synthesis and Catalysis, 2002, 344, 906-910.	2.1	47
34	Active carbons as catalysts for liquid phase reactions. Catalysis Today, 2005, 102-103, 160-165.	2.2	47
35	(R,R) dipamp-ruthenium (II) (2-methylallyl) ϵ 2 : Synthesis and selected use in asymmetric hydrogenation.. Tetrahedron Letters, 1992, 33, 5343-5346.	0.7	45
36	Promoting effect of water for aliphatic primary and secondary alcohol oxidation over platinum catalysts in dioxane/aqueous solution media. Catalysis Today, 2011, 173, 81-88.	2.2	45

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37	Influence of the Re introduction method onto Pd/TiO ₂ catalysts for the selective hydrogenation of succinic acid in aqueous-phase. <i>Catalysis Today</i> , 2014, 235, 127-133.	2.2	45
38	“Molecular imprinting effect” in the synthesis of immobilized rhodium complex Catalyst (IRC cat). <i>Tetrahedron Letters</i> , 1995, 36, 8779-8782.	0.7	43
39	Asymmetric Synthesis of 2-Methyl Cyclohexane Carboxylic Acids by Heterogeneous Catalysis: Mechanistic Aspects. <i>Chemistry - A European Journal</i> , 2000, 6, 949-958.	1.7	43
40	Tailoring metal-organic framework catalysts by click chemistry. <i>Dalton Transactions</i> , 2012, 41, 3945.	1.6	40
41	Preparation of functional styrenes from biosourced carboxylic acids by copper catalyzed decarboxylation in PEG. <i>Green Chemistry</i> , 2014, 16, 3089.	4.6	39
42	Selective C=O Hydrogenolysis of Erythritol over Supported Rh-ReO _x Catalysts in the Aqueous Phase. <i>ChemCatChem</i> , 2017, 9, 2768-2783.	1.8	39
43	Use of heterogenized dialdimine ligands in asymmetric transfer hydrogenation. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 897-900.	1.8	38
44	Effect of Au on Pd supported over HMS and Ti doped HMS as catalysts for the hydrogenation of levulinic acid to Î ³ -valerolactone. <i>Catalysis Today</i> , 2015, 257, 291-296.	2.2	38
45	Diastereoselective hydrogenation of o-toluic acid derivatives over supported rhodium and ruthenium heterogeneous catalysts. <i>Chemical Communications</i> , 1998, , 1431-1432.	2.2	37
46	Efficient Heterogeneously Palladium-Catalysed Heck Arylation of Acrolein Diethyl Acetal. Selective Synthesis of Cinnamaldehydes or 3-Arylpropionic Esters. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1128-1140.	2.1	37
47	New chiral bis(oxazoline) Rh(I)-, Ir(I)- and Ru(II)-complexes for asymmetric transfer hydrogenations of ketones. <i>Tetrahedron Letters</i> , 2004, 45, 2235-2238.	0.7	36
48	Efficient heterogeneous vinylation of aryl halides using potassium vinyltrifluoroborate. <i>Tetrahedron Letters</i> , 2008, 49, 4738-4741.	0.7	34
49	One-Pot Suzuki/Heck Sequence for the Synthesis of E-Stilbenes Featuring a Recyclable Silica-Supported Palladium Catalyst via a Multi-Component Reaction in 1,3-Propanediol. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1993-2001.	2.1	34
50	Shape selectivity for alkane hydroxylation with a new class of phosphonate-based heterogenised manganese porphyrins. <i>New Journal of Chemistry</i> , 1998, 22, 901-905.	1.4	33
51	Mixed N-heterocyclic carbene and phosphine palladium complexes for telomerization of butadiene with methanol. <i>Applied Catalysis A: General</i> , 2009, 368, 22-28.	2.2	33
52	Asymmetric Synthesis of Anti-N-Boc-Î±-Hydrazino-Î²-Hydroxyesters from Î²-Ketoesters by Sequential Catalytic Hydrogenation and Electrophilic Amination. <i>Synlett</i> , 1993, 1993, 475-477.	1.0	32
53	Diastereoselective catalytic hydrogenation on heterogeneous metal catalysts. <i>Topics in Catalysis</i> , 1998, 5, 25-38.	1.3	32
54	Heterogeneously Pd/C catalysed procedure for the vinylation of aryl bromides. <i>Applied Catalysis A: General</i> , 2009, 360, 145-153.	2.2	32

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55	Solid-Liquid Separation of Lanthanide/Lanthanide and Lanthanide/Actinide Using Ionic Imprinted Polymer Based on a DTPA Derivative. <i>Chemistry Letters</i> , 2002, 31, 202-203.	0.7	31
56	Cellulose Conversion with Tungstated-Alumina-Based Catalysts: Influence of the Presence of Platinum and Mechanistic Studies. <i>ChemSusChem</i> , 2013, 6, 500-507.	3.6	30
57	Effect of the Nature of Carbon Catalysts on Glyphosate Synthesis. <i>Journal of Catalysis</i> , 1999, 182, 515-519.	3.1	29
58	Conversion of cellulose to 2,5-hexanedione using tungstated zirconia in hydrogen atmosphere. <i>Applied Catalysis A: General</i> , 2015, 504, 664-671.	2.2	29
59	Asymmetric hydrogenation of α -keto ester with diamine-complexed metal. <i>Journal of Molecular Catalysis A</i> , 1996, 112, L157-L161.	4.8	28
60	Influence of the catalytic conditions on the selectivity of the Pd-catalyzed Heck arylation of acrolein derivatives. <i>Tetrahedron Letters</i> , 2006, 47, 3839-3842.	0.7	28
61	Telomerization of Butadiene with Starch under Mild Conditions. <i>ChemSusChem</i> , 2009, 2, 1125-1129.	3.6	28
62	Solvent Effect in Hydrogenolysis of Xylitol over Bifunctional Ru/MnO/C Catalysts under Alkaline-Free Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4076-4085.	3.2	28
63	Synthesis of diethyl 2-(aryl)vinylphosphonates by the Heck reaction catalysed by well-defined palladium complexes. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3222-3231.	0.8	27
64	In situ monitoring of catalytic three-phase enantioselective hydrogenation using FTIR/ATR spectroscopy. <i>Applied Catalysis A: General</i> , 2004, 264, 1-12.	2.2	25
65	Catalyzed ring opening of epoxides: Application to bioplasticizers synthesis. <i>Applied Catalysis A: General</i> , 2011, 393, 1-8.	2.2	25
66	Influence of Residues Contained in Softwood Hemicellulose Hydrolysates on the Catalytic Oxidation of Glucose to Glucarate in Alkaline Aqueous Solution. <i>Organic Process Research and Development</i> , 2016, 20, 1265-1275.	1.3	25
67	Xylitol Hydrogenolysis over Ruthenium-Based Catalysts: Effect of Alkaline Promoters and Basic Oxide-Modified Catalysts. <i>ChemCatChem</i> , 2017, 9, 2145-2159.	1.8	25
68	Diastereoselective hydrogenation of 2-methylnicotinic acid derivatives with supported metallic catalysts. <i>Journal of Molecular Catalysis A</i> , 2002, 186, 145-151.	4.8	24
69	Diastereoselective heterogeneous catalytic hydrogenation of 2-methyl nicotinic acid using pyroglutamate chiral auxiliary. <i>Tetrahedron Letters</i> , 2003, 44, 6991-6993.	0.7	23
70	Synthesis of diethyl 2-(aryl)vinylphosphonate by the Heck reaction catalysed by supported palladium catalysts. <i>Applied Catalysis A: General</i> , 2010, 388, 124-133.	2.2	23
71	Effect of carbon chain length on catalytic C O bond cleavage of polyols over Rh-ReOx/ZrO2 in aqueous phase. <i>Applied Catalysis A: General</i> , 2019, 586, 117213.	2.2	23
72	TiO2-supported molybdenum carbide: An active catalyst for the aqueous phase hydrogenation of succinic acid. <i>Applied Catalysis A: General</i> , 2019, 571, 71-81.	2.2	23

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73	Palladium-Catalyzed Telomerization of Butadiene with Polyols: From Mono to Polysaccharides. <i>Topics in Current Chemistry</i> , 2010, 295, 93-119.	4.0	21
74	Telomerization of butadiene with starch in water: role of the surfactants. <i>Green Chemistry</i> , 2010, 12, 475.	4.6	21
75	SOLID-LIQUID LANTHANIDE EXTRACTION WITH IONIC-IMPRINTED POLYMERS. <i>Separation Science and Technology</i> , 2002, 37, 2839-2857.	1.3	20
76	Isolated-palladium complexes for catalyzed telomerization of butadiene with methanol in the presence of water. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 2513-2518.	0.8	19
77	Exploring the reaction conditions for Ru/C catalyzed selective hydrogenolysis of xylitol alkaline aqueous solutions to glycols in a trickle-bed reactor. <i>Catalysis Today</i> , 2014, 234, 100-106.	2.2	19
78	Base free oxidation of 1,6-hexanediol to adipic acid over supported noble metal mono- and bimetallic catalysts. <i>Applied Catalysis A: General</i> , 2018, 551, 88-97.	2.2	19
79	Supported ruthenium nanoparticles on ordered mesoporous carbons using a cyclodextrin-assisted hard-template approach and their applications as hydrogenation catalysts. <i>Journal of Catalysis</i> , 2020, 383, 343-356.	3.1	19
80	Influence of the nature of chiral auxiliaries on the diastereoselective hydrogenation of ortho-substituted benzoic acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 1809-1818.	1.8	16
81	Solvent-free ring opening reaction of epoxides using quaternary ammonium salts as catalyst. <i>Catalysis Communications</i> , 2009, 10, 557-560.	1.6	16
82	Some chemical transformations of carbohydrates in aqueous medium. <i>Comptes Rendus Chimie</i> , 2011, 14, 688-699.	0.2	16
83	Supported Cobalt Catalysts for Acceptorless Alcohol Dehydrogenation. <i>ChemPlusChem</i> , 2020, 85, 1315-1324.	1.3	16
84	Activity of heterogeneous supported Cu and Ru catalysts in acceptor-less alcohol dehydrogenation. <i>Catalysis Communications</i> , 2021, 148, 106179.	1.6	16
85	Non-Catalyzed and Pt/ γ -Al ₂ O ₃ Catalyzed Hydrothermal Cellulose Dissolution-Conversion: Influence of the Reaction Parameters. <i>Topics in Catalysis</i> , 2010, 53, 1254-1257.	1.3	15
86	In situ preparation of bimetallic ReO _x -Pd/TiO ₂ catalysts for selective aqueous-phase hydrogenation of succinic acid to 1,4-butanediol. <i>Catalysis Today</i> , 2020, 355, 75-83.	2.2	15
87	Supported Molybdenum Carbide and Nitride Catalysts for Carbon Dioxide Hydrogenation. <i>Frontiers in Chemistry</i> , 2020, 8, 452.	1.8	15
88	Direct synthesis of tricyclic 5H-pyrido[3,2,1-ij]quinolin-3-one by domino palladium catalyzed reaction. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 3760-3762.	1.5	14
89	Optimized methods for obtaining cellulose and cellulose sulfates from birch wood. <i>Wood Science and Technology</i> , 2015, 49, 825-843.	1.4	14
90	Heck arylation of acrolein acetals using the 9-bromoanthracene: A case of study. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2863-2868.	0.8	13

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91	Aerobic oxidation of secondary pyridine-derivative alcohols in the presence of carbon-supported noble metal catalysts. <i>Catalysis Today</i> , 2013, 203, 133-138.	2.2	13
92	Immobilization of Pybox Ligand on Modified Starch. <i>Chemistry Letters</i> , 2006, 35, 44-45.	0.7	11
93	New chiral oxazoline based-rhodium(I) catalysts: Synthesis, characterisation, heterogeneisation and applications. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 741-747.	0.8	11
94	Characterization by X-ray absorption spectroscopy of bimetallic Re ^{IV} /Pd/TiO ₂ catalysts efficient for selective aqueous-phase hydrogenation of succinic acid to 1,4-butanediol. <i>Materials Chemistry and Physics</i> , 2020, 252, 123225.	2.0	11
95	Decarboxylative Heterocoupling Coupling of Substituted Benzoic Acids for Biaryl Synthesis. <i>Topics in Catalysis</i> , 2014, 57, 1430-1437.	1.3	10
96	Base directed palladium catalysed Heck arylation of acrolein diethyl acetal in water. <i>Applied Catalysis A: General</i> , 2014, 469, 250-258.	2.2	10
97	Ru-(Mn-M)OX Solid Base Catalysts for the Upgrading of Xylitol to Glycols in Water. <i>Catalysts</i> , 2018, 8, 331.	1.6	10
98	Oxidation of Aldoses Contained in Softwood Hemicellulose Acid Hydrolysates into Aldaric Acids under Alkaline or Noncontrolled pH Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4543-4552.	1.8	9
99	Synthesis of 3-Arylpropenal and 3-Arylpropionic Acids by Palladium Catalysed Heck Coupling Reactions: Scopes and Limitations. <i>Current Organic Synthesis</i> , 2009, 6, 54-65.	0.7	8
100	Stilbene synthesis through decarboxylative cross-coupling of substituted cinnamic acids with aryl halides. <i>Applied Catalysis A: General</i> , 2018, 560, 132-143.	2.2	8
101	Aerobic oxidation of C ₄ -diols to the diacids in base-free medium over zirconia-supported (bi)metallic catalysts. <i>New Journal of Chemistry</i> , 2019, 43, 9873-9885.	1.4	8
102	Influence of Reduction ^{IV} Carburization Parameters on the Performance of Supported Molybdenum Carbide Catalysts in Succinic Acid Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12964-12976.	1.8	8
103	Hydrogenation of double bonds in olefin-modified starch. <i>Catalysis Communications</i> , 2003, 4, 465-468.	1.6	7
104	Direct palladium/copper oxidative cross-coupling of α -methylstyrene with acrylates. <i>Science China Chemistry</i> , 2010, 53, 1927-1931.	4.2	7
105	Valorization of Lactic Acid and Derivatives to Acrylic Acid Derivatives: Review of Mechanistic Studies. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 39-62.	0.4	7
106	Efficient Telomerization of Butadiene with Starch in Water: The Role of the Surfactant. <i>Topics in Catalysis</i> , 2010, 53, 1282-1284.	1.3	6
107	Influence of Liquid or Solid Phase Preparation of Cationic Hemicelluloses on Physical Properties of Paper. <i>BioResources</i> , 2013, 8, .	0.5	6
108	C-O Bond Hydrogenolysis of Aqueous Mixtures of Sugar Polyols and Sugars over ReOx-Rh/ZrO ₂ Catalyst: Application to an Hemicelluloses Extracted Liquor. <i>Catalysts</i> , 2019, 9, 740.	1.6	6

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109	Separation of Lanthanides by Ion Chromatography with Imprinted Polymers. <i>Chemistry Letters</i> , 2003, 32, 530-531.	0.7	5
110	Heterogeneous diastereoselective hydrogenation of pyridine and corresponding enamine covalently bound to pantolactone. <i>Journal of Molecular Catalysis A</i> , 2004, 210, 205-209.	4.8	5
111	Asymmetric reduction of ketones with ruthenium-oxazoline based catalysts. <i>Journal of Molecular Catalysis A</i> , 2008, 287, 142-150.	4.8	5
112	Diffusion of modified vegetables oils in thermoplastic polymers. <i>Materials Chemistry and Physics</i> , 2017, 200, 107-120.	2.0	5
113	Catalytic Transformations of Carbohydrates. <i>ACS Symposium Series</i> , 2006, , 52-66.	0.5	4
114	Catalytic three-phase diastereoselective hydrogenation of o-toluic and 2-methyl nicotinic acid derivatives: In situ FTIR/ATR investigation. <i>Vibrational Spectroscopy</i> , 2007, 45, 18-26.	1.2	4
115	Improving conversion of d-Glucose into short-chain alkanes over Ru/MCM-48 based catalysts. <i>Microporous and Mesoporous Materials</i> , 2019, 286, 25-35.	2.2	4
116	First study on telomerization of chitosan and guar hemicellulose with butadiene: Influence of reaction parameters on the substitution degree of the biopolymers. <i>Molecular Catalysis</i> , 2020, 483, 110706.	1.0	4
117	Aqueous Heck Arylation of Acrolein Derivatives: The Role of Cyclodextrin as Additive. <i>Topics in Catalysis</i> , 2014, 57, 1550-1557.	1.3	3
118	Catalytic Transfer Dehydrogenation of Geraniol to Geranial Over Palladium and Copper Supported Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 1498-1504.	1.3	3
119	Synthesis of terpene derivatives of ethanolamine using telomerization reaction. <i>Tetrahedron Letters</i> , 2016, 57, 452-457.	0.7	2
120	The Pivotal Role of Catalysis in France: Selected Examples of Recent Advances and Future Prospects.. <i>ChemCatChem</i> , 2017, 9, 2029-2064.	1.8	2
121	Diastereoselective Heterogeneous Catalytic Hydrogenation of 2-Methyl Nicotinic Acid Using Pyroglutamate Chiral Auxiliary.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
122	New Chiral Bis(oxazoline) Rh(I)-, Ir(I)- and Ru(II)-Complexes for Asymmetric Transfer Hydrogenations of Ketones.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
123	Diastereoselective hydrogenation of a cyclic β -ketoformyl derivative on supported metal catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 125-131.	4.8	0