

Montserrat Diguez

List of Publications by Year in Descending Order

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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.

172
papers

6,917
citations

43
h-index

76
g-index

248
ext. papers

7,555
ext. citations

8.3
avg, IF

6
L-index

#	Paper	IF	Citations
172	Asymmetric hydrogenation in industry. <i>Advances in Catalysis</i> , 2021 , 341-383	2.4	0
171	Proofreading experimentally assigned stereochemistry through Q2MM predictions in Pd-catalyzed allylic aminations. <i>Nature Communications</i> , 2021 , 12, 6719	17.4	1
170	Evolution in the metal-catalyzed asymmetric hydroformylation of 1,1?-disubstituted alkenes. <i>Advances in Catalysis</i> , 2021 , 69, 181-215	2.4	
169	Density Functional Theory-Inspired Design of Ir/P,S-Catalysts for Asymmetric Hydrogenation of Olefins. <i>Organometallics</i> , 2021 , 40, 3424-3435	3.8	0
168	Indene Derived Phosphorus-Thioether Ligands for the Ir-Catalyzed Asymmetric Hydrogenation of Olefins with Diverse Substitution Patterns and Different Functional Groups. <i>Advanced Synthesis and Catalysis</i> , 2021 , 363, 4561	5.6	2
167	Recent Advances in Enantioselective Pd-Catalyzed Allylic Substitution: From Design to Applications. <i>Chemical Reviews</i> , 2021 , 121, 4373-4505	68.1	78
166	Self-Adaptable Tropos Catalysts. <i>Accounts of Chemical Research</i> , 2021 , 54, 3252-3263	24.3	2
165	Evolution in heterodonor P-N, P-S and P-O chiral ligands for preparing efficient catalysts for asymmetric catalysis. From design to applications. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214120	23.2	8
164	Iridium-Catalyzed Asymmetric Hydrogenation. <i>Topics in Organometallic Chemistry</i> , 2020 , 153-205	0.6	1
163	Rh-Catalyzed Asymmetric Hydroaminomethylation of β -Substituted Acrylamides: Application in the Synthesis of RWAY. <i>Organic Letters</i> , 2020 , 22, 9036-9040	6.2	7
162	P-Stereogenic -Phosphine-Phosphite Ligands for the Rh-Catalyzed Hydrogenation of Olefins. <i>Journal of Organic Chemistry</i> , 2020 , 85, 4730-4739	4.2	6
161	IrBiaryl phosphiteoxazoline catalyst libraries: a breakthrough in the asymmetric hydrogenation of challenging olefins. <i>Catalysis Science and Technology</i> , 2020 , 10, 613-624	5.5	13
160	Evolution of phosphorus-thioether ligands for asymmetric catalysis. <i>Chemical Communications</i> , 2020 , 56, 10795-10808	5.8	11
159	Effect of Ligand Chelation and Sacrificial Oxidant on the Integrity of Triazole-Based Carbene Iridium Water Oxidation Catalysts. <i>Inorganic Chemistry</i> , 2020 , 59, 12337-12347	5.1	9
158	Giving a Second Chance to Ir/Sulfoximine-Based Catalysts for the Asymmetric Hydrogenation of Olefins Containing Poorly Coordinative Groups. <i>Journal of Organic Chemistry</i> , 2019 , 84, 8259-8266	4.2	12
157	An Improved Class of Phosphite-Oxazoline Ligands for Pd-Catalyzed Allylic Substitution Reactions. <i>ACS Catalysis</i> , 2019 , 9, 6033-6048	13.1	7
156	Phosphite-thioether/selenoether Ligands from Carbohydrates: An Easily Accessible Ligand Library for the Asymmetric Hydrogenation of Functionalized and Unfunctionalized Olefins. <i>ChemCatChem</i> , 2019 , 11, 2142-2168	5.2	18

155	A readily accessible and modular carbohydrate-derived thioether/selenoether-phosphite ligand library for Pd-catalyzed asymmetric allylic substitutions. <i>Dalton Transactions</i> , 2019 , 48, 12632-12643	4.3	8
154	Ir/Thioether-Carbene, Phosphinite, and Phosphite Complexes for Asymmetric Hydrogenation. A Case for Comparison. <i>Organometallics</i> , 2019 , 38, 4193-4205	3.8	9
153	Extending the Substrate Scope in the Hydrogenation of Unfunctionalized Tetrasubstituted Olefins with Ir-P Stereogenic Aminophosphine-Oxazoline Catalysts. <i>Organic Letters</i> , 2019 , 21, 807-811	6.2	27
152	Synthesis, Application and Kinetic Studies of Chiral Phosphite-Oxazoline Palladium Complexes as Active and Selective Catalysts in Intermolecular Heck Reactions. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1650-1664	5.6	10
151	Computationally Guided Design of a Readily Assembled Phosphite-Thioether Ligand for a Broad Range of Pd-Catalyzed Asymmetric Allylic Substitutions. <i>ACS Catalysis</i> , 2018 , 8, 3587-3601	13.1	18
150	Pyrrolidine-Based P,O Ligands from Carbohydrates: Easily Accessible and Modular Ligands for the Ir-Catalyzed Asymmetric Hydrogenation of Minimally Functionalized Olefins. <i>ChemCatChem</i> , 2018 , 10, 5414-5424	5.2	9
149	Asymmetric Hydrogenation of Disubstituted, Trisubstituted, and Tetrasubstituted Minimally Functionalized Olefins and Cyclic β -Enamides with Easily Accessible Ir-P,Oxazoline Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 10316-10320	13.1	24
148	Amino-P Ligands from Iminosugars: New Readily Available and Modular Ligands for Enantioselective Pd-Catalyzed Allylic Substitutions. <i>Organometallics</i> , 2018 , 37, 1682-1694	3.8	10
147	Enantioselective Synthesis of Sterically Hindered Tertiary β -Aryl Oxindoles via Palladium-Catalyzed Decarboxylative Protonation. An Experimental and Theoretical Mechanistic Investigation. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 3124-3137	5.6	8
146	Triazolylidene Iridium Complexes for Highly Efficient and Versatile Transfer Hydrogenation of C=O, C=N, and C=C Bonds and for Acceptorless Alcohol Oxidation. <i>Inorganic Chemistry</i> , 2017 , 56, 11282-11298	5.1	44
145	Enantioselective Synthesis of 6,6-Disubstituted Pentafulvenes Containing a Chiral Pendant Hydroxy Group. <i>Chemistry - A European Journal</i> , 2017 , 23, 17195-17198	4.8	6
144	Alternatives to Phosphinooxazoline (t-BuPHOX) Ligands in the Metal-Catalyzed Hydrogenation of Minimally Functionalized Olefins and Cyclic β -Enamides. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 2801-2814	5.6	24
143	Phosphite-Thioether Ligands Derived from Carbohydrates allow the Enantioswitchable Hydrogenation of Cyclic β -Enamides by using either Rh or Ir Catalysts. <i>Chemistry - A European Journal</i> , 2017 , 23, 813-822	4.8	16
142	Chiral ferrocene-based P,S ligands for Ir-catalyzed hydrogenation of minimally functionalized olefins. Scope and limitations. <i>Tetrahedron</i> , 2016 , 72, 2623-2631	2.4	25
141	Designing new readily available sugar-based ligands for asymmetric transfer hydrogenation of ketones. In the quest to expand the substrate scope. <i>Tetrahedron Letters</i> , 2016 , 57, 1301-1308	2	13
140	Conformational Preferences of a Tropos Biphenyl Phosphinooxazoline β Ligand with Wide Substrate Scope. <i>ACS Catalysis</i> , 2016 , 6, 1701-1712	13.1	19
139	Extending the Substrate Scope for the Asymmetric Iridium-Catalyzed Hydrogenation of Minimally Functionalized Olefins by Using Biaryl Phosphite-Based Modular Ligand Libraries. <i>Chemical Record</i> , 2016 , 16, 1578-90	6.6	21
138	PHOX-Based Phosphite-Oxazoline Ligands for the Enantioselective Ir-Catalyzed Hydrogenation of Cyclic β -Enamides. <i>ACS Catalysis</i> , 2016 , 6, 5186-5190	13.1	26

137	Adaptable P-X Biaryl Phosphite/Phosphoroamidite-Containing Ligands for Asymmetric Hydrogenation and C-X Bond-Forming Reactions: Ligand Libraries with Exceptionally Wide Substrate Scope. <i>Chemical Record</i> , 2016 , 16, 2460-2481	6.6	18
136	Third-Generation Amino Acid Furanoside-Based Ligands from d-Mannose for the Asymmetric Transfer Hydrogenation of Ketones: Catalysts with an Exceptionally Wide Substrate Scope. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 4006-4018	5.6	11
135	Asymmetric Catalyzed Allylic Substitution Using a Pd/PB Catalyst Library with Exceptional High Substrate and Nucleophile Versatility: DFT and Pd-Allyl Key Intermediates Studies. <i>Organometallics</i> , 2016 , 35, 3323-3335	3.8	16
134	Extending the substrate scope of bicyclic p-oxazoline/thiazole ligands for Ir-catalyzed hydrogenation of unfunctionalized olefins by introducing a biaryl phosphoroamidite group. <i>Chemistry - A European Journal</i> , 2015 , 21, 3455-64	4.8	30
133	Stereospecific S(N)2@P reactions: novel access to bulky P-stereogenic ligands. <i>Chemical Communications</i> , 2015 , 51, 17548-51	5.8	30
132	Iridium-Catalyzed Asymmetric Hydrogenation with Simple Cyclohexane-Based P/S Ligands: In Situ HP-NMR and DFT Calculations for the Characterization of Reaction Intermediates. <i>Organometallics</i> , 2015 , 34, 5321-5334	3.8	26
131	Filling the Gaps in the Challenging Asymmetric Hydroboration of 1,1-Disubstituted Alkenes with Simple Phosphite-Based Phosphinooxazoline Iridium Catalysts. <i>ChemCatChem</i> , 2015 , 7, 114-120	5.2	24
130	Theoretical and Experimental Optimization of a New Amino Phosphite Ligand Library for Asymmetric Palladium-Catalyzed Allylic Substitution. <i>ChemCatChem</i> , 2015 , 7, 4091-4107	5.2	16
129	Artificial Metalloenzymes in Asymmetric Catalysis: Key Developments and Future Directions. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1567-1586	5.6	56
128	Rh-catalyzed asymmetric hydrogenation using a furanoside monophosphite second-generation ligand library: scope and limitations. <i>Tetrahedron: Asymmetry</i> , 2014 , 25, 258-262		11
127	Highly versatile Pd-thioether-phosphite catalytic systems for asymmetric allylic alkylation, amination, and etherification reactions. <i>Organic Letters</i> , 2014 , 16, 1892-5	6.2	38
126	Asymmetric hydrogenation of olefins using chiral Crabtree-type catalysts: scope and limitations. <i>Chemical Reviews</i> , 2014 , 114, 2130-69	68.1	336
125	A theoretically-guided optimization of a new family of modular P,S-ligands for iridium-catalyzed hydrogenation of minimally functionalized olefins. <i>Chemistry - A European Journal</i> , 2014 , 20, 12201-14	4.8	36
124	Modular Hydroxyamide and Thioamide Pyranoside-Based Ligand Library from the Sugar Pool: New Class of Ligands for Asymmetric Transfer Hydrogenation of Ketones. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 2293-2302	5.6	16
123	Application of pyranoside phosphite-pyridine ligands to enantioselective metal-catalyzed allylic substitutions and conjugate 1,4-additions. <i>Tetrahedron: Asymmetry</i> , 2013 , 24, 995-1000		25
122	Second-Generation Amino Acid Furanoside Based Ligands from D-Glucose for the Asymmetric Transfer Hydrogenation of Ketones. <i>ChemCatChem</i> , 2013 , 5, 3821-3828	5.2	10
121	A Modular Furanoside Thioether-Phosphite/Phosphinite/ Phosphine Ligand Library for Asymmetric Iridium-Catalyzed Hydrogenation of Minimally Functionalized Olefins: Scope and Limitations. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, 143-160	5.6	36
120	Phosphite-Thiazoline versus Phosphite-Oxazoline for Pd-Catalyzed Allylic Substitution Reactions: A Case for Comparison. <i>ChemCatChem</i> , 2013 , 5, 1504-1516	5.2	11

119	Expanded Scope of the Asymmetric Hydrogenation of Minimally Functionalized Olefins Catalyzed by Iridium Complexes with Phosphite- π -thiazoline Ligands. <i>ChemCatChem</i> , 2013 , 5, 2410-2417	5.2	25
118	Carbohydrate-Derived Ligands in Asymmetric Tsuji- π -rost Reactions 2013 , 217-244		1
117	Hydrogenation Reactions 2013 , 155-182		
116	Carbohydrate-Derived Ligands in Asymmetric Heck Reactions 2013 , 245-251		3
115	A Phosphite-Pyridine/Iridium Complex Library as Highly Selective Catalysts for the Hydrogenation of Minimally Functionalized Olefins. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, 2569-2583	5.6	30
114	Enantioselective Ir-Catalyzed Hydrogenation of Minimally Functionalized Olefins Using Pyranoside Phosphinite-Oxazoline Ligands. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 2139-2145	2.3	10
113	A new modular phosphite-pyridine ligand library for asymmetric Pd-catalyzed allylic substitution reactions: a study of the key Pd- π -allyl intermediates. <i>Chemistry - A European Journal</i> , 2013 , 19, 2416-32	4.8	33
112	Furanoside phosphite-phosphoroamidite and diphosphoroamidite ligands applied to asymmetric Cu-catalyzed allylic substitution reactions. <i>Tetrahedron: Asymmetry</i> , 2012 , 23, 67-71		8
111	Modular Furanoside Pseudodipeptides and Thioamides, Readily Available Ligand Libraries for Metal-Catalyzed Transfer Hydrogenation Reactions: Scope and Limitations. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 415-427	5.6	22
110	Conjugate Addition of Organoaluminum Species to Michael Acceptors and Related Processes. <i>Topics in Organometallic Chemistry</i> , 2012 , 277-306	0.6	4
109	Asymmetric Rh-catalyzed hydrogenation using a furanoside phosphite-phosphoroamidite and diphosphoroamidite ligand library. <i>Dalton Transactions</i> , 2012 , 41, 3038-45	4.3	5
108	The application of pyranoside phosphite-pyridine ligands to enantioselective Ir-catalyzed hydrogenations of highly unfunctionalized olefins. <i>Tetrahedron: Asymmetry</i> , 2012 , 23, 945-951		20
107	Ir-Catalyzed Hydrogenation of Minimally Functionalized Olefins Using Phosphite-Nitrogen Ligands 2012 , 153-165		2
106	Asymmetric Intermolecular Mizoroki-Heck Reaction: From Phosphine/Phosphinite-Nitrogen to Phosphite-Nitrogen Ligands. <i>Israel Journal of Chemistry</i> , 2012 , 52, 572-581	3.4	13
105	Phosphite-containing ligands for asymmetric catalysis. <i>Chemical Reviews</i> , 2011 , 111, 2077-118	68.1	238
104	Thioether-phosphite: new ligands for the highly enantioselective Ir-catalyzed hydrogenation of minimally functionalized olefins. <i>Chemical Communications</i> , 2011 , 47, 9215-7	5.8	38
103	Phosphite-oxazole/imidazole ligands in asymmetric intermolecular Heck reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 941-6	3.9	38
102	Iridium-Catalyzed Hydrogenation Using Phosphorus Ligands. <i>Topics in Organometallic Chemistry</i> , 2011 , 11-29	0.6	16

101	Pyranoside phosphite-oxazoline ligands for the highly versatile and enantioselective Ir-catalyzed hydrogenation of minimally functionalized olefins. A combined theoretical and experimental study. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13634-45	16.4	147
100	Carbohydrate-based pseudo-dipeptides: new ligands for the highly enantioselective Ru-catalyzed transfer hydrogenation reaction. <i>Chemical Communications</i> , 2011 , 47, 12188-90	5.8	20
99	C1-symmetric carbohydrate diphosphite ligands for asymmetric Pd-allylic alkylation reactions. Study of the key Pd-allyl intermediates. <i>Dalton Transactions</i> , 2011 , 40, 2852-60	4.3	7
98	Sugar-monophosphite ligands applied to the asymmetric Ni-catalyzed trialkylaluminum addition to aldehydes. <i>Tetrahedron: Asymmetry</i> , 2011 , 22, 834-839		10
97	Biaryl phosphites: new efficient adaptative ligands for Pd-catalyzed asymmetric allylic substitution reactions. <i>Accounts of Chemical Research</i> , 2010 , 43, 312-22	24.3	166
96	A new class of modular P,N-ligand library for asymmetric Pd-catalyzed allylic substitution reactions: a study of the key Pd- π -allyl intermediates. <i>Chemistry - A European Journal</i> , 2010 , 16, 620-38	4.8	27
95	Biaryl phosphite-oxazoline ligands from the chiral pool: highly efficient modular ligands for the asymmetric Pd-catalyzed Heck reaction. <i>Chemistry - A European Journal</i> , 2010 , 16, 3434-40	4.8	46
94	Adaptative biaryl phosphite-oxazole and phosphite-thiazole ligands for asymmetric Ir-catalyzed hydrogenation of alkenes. <i>Chemistry - A European Journal</i> , 2010 , 16, 4567-76	4.8	50
93	Asymmetric hydrogenation of minimally functionalised terminal olefins: an alternative sustainable and direct strategy for preparing enantioenriched hydrocarbons. <i>Chemistry - A European Journal</i> , 2010 , 16, 14232-40	4.8	88
92	Fine-tunable monodentate phosphoroamidite and aminophosphine ligands for Rh-catalyzed asymmetric hydroformylation. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 2153-2157		20
91	Use of sugar-based ligands in selective catalysis: Recent developments. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 2007-2030	23.2	83
90	Modular Furanoside Phosphite-Phosphoroamidites, a Readily Available Ligand Library for Asymmetric Palladium-Catalyzed Allylic Substitution Reactions. Origin of Enantioselectivity. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 1648-1670	5.6	33
89	Pyranoside Phosphite-Oxazoline Ligand Library: Highly Efficient Modular P,N Ligands for Palladium-Catalyzed Allylic Substitution Reactions. A Study of the Key Palladium Allyl Intermediates. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 3217-3234	5.6	47
88	Furanoside phosphite-phosphoroamidite and diphosphoroamidite ligands for Cu-catalyzed asymmetric 1,4-addition reactions. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 1930-1935		6
87	Furanoside phosphite-phosphoroamidite: new ligand class for the asymmetric nickel-catalyzed trialkylaluminum addition to aldehydes. <i>Tetrahedron Letters</i> , 2009 , 50, 4495-4497	2	12
86	Screening of a modular sugar-based phosphoroamidite ligand library in the asymmetric nickel-catalyzed trialkylaluminum addition to aldehydes. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 1575-1579		13
85	Sugar-based phosphite and phosphoroamidite ligands for the Cu-catalyzed asymmetric 1,4-addition to enones. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 2167-2172		15
84	Hydroformylation of oct-1-ene catalyzed by dinuclear gem-dithiolato-bridged rhodium(I) complexes and phosphorus donor ligands. <i>Journal of Molecular Catalysis A</i> , 2009 , 300, 121-131		12

83	Iridium phosphite-oxazoline catalysts for the highly enantioselective hydrogenation of terminal alkenes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12344-53	16.4	120
82	Rh-catalyzed asymmetric hydroformylation of heterocyclic olefins using chiral diphosphite ligands. Scope and limitations. <i>Journal of Organic Chemistry</i> , 2009 , 74, 5440-5	4.2	46
81	Chiral pyranoside phosphite-oxazolines: a new class of ligand for asymmetric catalytic hydrogenation of alkenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7208-9	16.4	89
80	Biaryl phosphite-oxazolines from hydroxyl aminoacid derivatives: highly efficient modular ligands for Ir-catalyzed hydrogenation of alkenes. <i>Chemical Communications</i> , 2008 , 3888-90	5.8	47
79	Screening of a phosphite-phosphoramidite ligand library for palladium-catalysed asymmetric allylic substitution reactions: the origin of enantioselectivity. <i>Chemistry - A European Journal</i> , 2008 , 14, 944-60	4.8	50
78	Modular phosphite-oxazoline/oxazine ligand library for asymmetric Pd-catalyzed allylic substitution reactions: scope and limitations-origin of enantioselectivity. <i>Chemistry - A European Journal</i> , 2008 , 14, 3653-69	4.8	56
77	Palladium Nanoparticles in Allylic Alkylations and Heck Reactions: The Molecular Nature of the Catalyst Studied in a Membrane Reactor. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 2583-2598	5.6	55
76	Screening of modular sugar phosphite-oxazoline and phosphite-phosphoroamidite ligand libraries in the asymmetric nickel-catalyzed trialkylaluminium addition to aldehydes. <i>Inorganica Chimica Acta</i> , 2008 , 361, 1381-1384	2.7	12
75	Enantioselective copper-catalyzed conjugate addition and allylic substitution reactions. <i>Chemical Reviews</i> , 2008 , 108, 2796-823	68.1	856
74	First chiral phosphoroamidite-phosphite ligands for highly enantioselective and versatile Pd-catalyzed asymmetric allylic substitution reactions. <i>Organic Letters</i> , 2007 , 9, 49-52	6.2	35
73	Sugar-based diphosphoroamidite as a promising new class of ligands in Pd-catalyzed asymmetric allylic alkylation reactions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 2842-50	4.2	40
72	Screening of a modular sugar-based phosphite-oxazoline ligand library in asymmetric Pd-catalyzed Heck reactions. <i>Chemistry - A European Journal</i> , 2007 , 13, 3296-304	4.8	84
71	New Highly Effective Phosphite-Phosphoramidite Ligands for Palladium-Catalysed Asymmetric Allylic Alkylation Reactions. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 836-840	5.6	23
70	Recent Progress in Asymmetric Catalysis Using Chiral Carbohydrate-Based Ligands. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 4621-4634	3.2	88
69	Sugar phosphite-oxazoline and phosphite-phosphoroamidite ligand libraries for Cu-catalyzed asymmetric 1,4-addition reactions. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 1613-1617		29
68	Thioether containing ligands for asymmetric allylic substitution reactions. <i>Comptes Rendus Chimie</i> , 2007 , 10, 188-205	2.7	39
67	Screening of a modular sugar-based phosphite ligand library in the Cu-catalyzed asymmetric 1,4-addition reactions. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 4315-4320	2.3	10
66	Phosphite-oxazoline ligands for Rh-catalyzed asymmetric hydrosilylation of ketones. <i>Journal of Molecular Catalysis A</i> , 2006 , 249, 207-210		13

65	Asymmetric Hydroformylation 2006 , 35-64		46
64	A highly selective synthesis of 3-hydroxy-2-methylpropionamide involving a one-pot tandem hydroformylation-hydrogenation sequence. <i>Chemical Communications</i> , 2006 , 191-3	5.8	16
63	Screening of a modular sugar-based phosphite ligand library in the asymmetric nickel-catalyzed trialkylaluminum addition to aldehydes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 8159-65	4.2	42
62	Furanoside thioetherphosphinite ligands for Pd-catalyzed asymmetric allylic substitution reactions: Scope and limitations. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 2257-2262	2.3	18
61	Pyranoside phosphitephosphoroamidite ligands for Pd-catalyzed asymmetric allylic alkylation reactions. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 3282-3287		12
60	First successful application of diphosphite ligands in the asymmetric hydroformylation of dihydrofurans. <i>Chemical Communications</i> , 2005 , 1221-3	5.8	40
59	Asymmetric hydrogenation of prochiral olefins catalysed by furanoside thioether-phosphinite Rh(I) and Ir(I) complexes. <i>Dalton Transactions</i> , 2005 , 2557-62	4.3	25
58	Chiral phosphite-oxazolines: a new class of ligands for asymmetric Heck reactions. <i>Organic Letters</i> , 2005 , 7, 5597-9	6.2	56
57	Palladium-diphosphite catalysts for the asymmetric allylic substitution reactions. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3363-8	4.2	60
56	Allylic Alkylations Catalyzed by Palladium Systems Containing Modular Chiral Dithioethers. A Structural Study of the Allylic Intermediates. <i>Organometallics</i> , 2005 , 24, 3946-3956	3.8	33
55	New phosphite-oxazoline ligands for efficient Pd-catalyzed substitution reactions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3646-7	16.4	120
54	Pd-catalyzed asymmetric allylic alkylation using furanoside diphosphinite ligands. <i>Inorganica Chimica Acta</i> , 2005 , 358, 3824-3828	2.7	7
53	Furanoside thioetherphosphinite ligands for Pd-catalyzed asymmetric allylic substitution reactions. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 959-963		34
52	Thioetherphosphinite and diphosphinite ligands derived from d-xylose for the copper-catalyzed asymmetric 1,4-addition to 2-cyclohexenone. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 2161-2165		16
51	Furanoside thioetherphosphinite ligands for Rh-catalyzed asymmetric hydrosilylation of ketones. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 3877-3880		18
50	Asymmetric hydroformylation of vinyl arenes catalyzed by furanoside diphosphinites-Rh(I) complexes. <i>Applied Catalysis A: General</i> , 2005 , 282, 215-220	5.1	12
49	Cationic Iridium Complexes with Chiral Dithioether Ligands: Synthesis, Characterisation and Reactivity under Hydrogenation Conditions. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2315-2323	2.3	6
48	Modular Furanoside Diphosphite Ligands for Pd-Catalyzed Asymmetric Allylic Substitution Reactions: Scope and Limitations. <i>Advanced Synthesis and Catalysis</i> , 2005 , 347, 1257-1266	5.6	40

- 47 New Carbohydrate-Based Phosphite-Oxazoline Ligands as Highly Versatile Ligands for Palladium-Catalyzed Allylic Substitution Reactions. *Advanced Synthesis and Catalysis*, **2005**, 347, 1943-1947^{5,6} 69
- 46 Furanoside diphosphinites as suitable ligands for the asymmetric catalytic hydrogenation of prochiral olefins. *Tetrahedron: Asymmetry*, **2004**, 15, 2247-2251 19
- 45 Cationic iridium complexes with C₂-symmetry binaphthalene-core disulfide ligands. *Inorganica Chimica Acta*, **2004**, 357, 2957-2964 2.7
- 44 Recent advances in Rh-catalyzed asymmetric hydroformylation using phosphite ligands. *Tetrahedron: Asymmetry*, **2004**, 15, 2113-2122 131
- 43 Carbohydrate derivative ligands in asymmetric catalysis. *Coordination Chemistry Reviews*, **2004**, 248, 2165-2192¹⁶⁰
- 42 Ligands derived from carbohydrates for asymmetric catalysis. *Chemical Reviews*, **2004**, 104, 3189-216 68.1 239
- 41 Phosphite Ligands in Asymmetric Hydrogenation. *ACS Symposium Series*, **2004**, 161-173 0.4 4
- 40 Cationic iridium complexes with C₂-symmetry binaphthalene-core disulfide ligands: Synthesis and catalytic activity in the hydrogenation of alkenes. *Inorganica Chimica Acta*, **2004**, 357, 2957-2964 2.7 7
- 39 Chiral thioether ligands: coordination chemistry and asymmetric catalysis. *Coordination Chemistry Reviews*, **2003**, 242, 159-201 23.2 172
- 38 Rhodium-sulfonated diphosphine catalysts in aqueous hydroformylation of vinyl arenes: high-pressure NMR and IR studies. *Journal of Molecular Catalysis A*, **2003**, 195, 113-124 20
- 37 Tunable furanoside diphosphite ligands. A powerful approach in asymmetric catalysis. *Dalton Transactions*, **2003**, 2957-2963 4.3 69
- 36 Modular carbohydrate diphosphite and phosphite-phosphoroamidite ligands for asymmetric Rh-catalyzed hydrosilylation of ketones. *Tetrahedron: Asymmetry*, **2002**, 13, 83-86 17
- 35 Mixed thioether-phosphite and phosphine-phosphite ligands for copper-catalyzed asymmetric 1,4-addition of organometallic reagents to cyclohexenone. *Journal of Molecular Catalysis A*, **2002**, 185, 11-16 16
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