

Montserrat Diguez

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43
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ext. papers

7,555
ext. citations

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avg, IF

6
L-index

#	Paper	IF	Citations
172	Enantioselective copper-catalyzed conjugate addition and allylic substitution reactions. <i>Chemical Reviews</i> , 2008 , 108, 2796-823	68.1	856
171	Asymmetric hydrogenation of olefins using chiral Crabtree-type catalysts: scope and limitations. <i>Chemical Reviews</i> , 2014 , 114, 2130-69	68.1	336
170	Ligands derived from carbohydrates for asymmetric catalysis. <i>Chemical Reviews</i> , 2004 , 104, 3189-216	68.1	239
169	Phosphite-containing ligands for asymmetric catalysis. <i>Chemical Reviews</i> , 2011 , 111, 2077-118	68.1	238
168	Chiral thioether ligands: coordination chemistry and asymmetric catalysis. <i>Coordination Chemistry Reviews</i> , 2003 , 242, 159-201	23.2	172
167	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
166	Carbohydrate derivative ligands in asymmetric catalysis. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 2165-2192	23.2	160
165	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
164	Recent advances in Rh-catalyzed asymmetric hydroformylation using phosphite ligands. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2113-2122		131
163	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
162	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
161	Chiral diphosphites derived from D-glucose: new ligands for the asymmetric catalytic hydroformylation of vinyl arenes. <i>Chemistry - A European Journal</i> , 2001 , 7, 3086-94	4.8	117
160	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
159	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
158	Recent Progress in Asymmetric Catalysis Using Chiral Carbohydrate-Based Ligands. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 4621-4634	3.2	88
157	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
156	Use of sugar-based ligands in selective catalysis: Recent developments. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 2007-2030	23.2	83

155	Recent Advances in Enantioselective Pd-Catalyzed Allylic Substitution: From Design to Applications. <i>Chemical Reviews</i> , 2021 , 121, 4373-4505	68.1	78
154	Modular furanoside phosphite ligands for asymmetric Pd-catalyzed allylic substitution. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8867-71	4.2	77
153	Synthesis and Coordination Chemistry of Novel Chiral P,S-Ligands with a Xylofuranose Backbone: Use in Asymmetric Hydroformylation and Hydrogenation. <i>Organometallics</i> , 2000 , 19, 1488-1496	3.8	76
152	Tunable furanoside diphosphite ligands. A powerful approach in asymmetric catalysis. <i>Dalton Transactions</i> , 2003 , 2957-2963	4.3	69
151	New Carbohydrate-Based Phosphite-Oxazoline Ligands as Highly Versatile Ligands for Palladium-Catalyzed Allylic Substitution Reactions. <i>Advanced Synthesis and Catalysis</i> , 2005 , 347, 1943-1947	5.6	69
150	Chiral diphosphites derived from D-glucose: new highly modular ligands for the asymmetric catalytic hydrogenation. <i>Journal of Organic Chemistry</i> , 2002 , 67, 3796-801	4.2	61
149	Palladium-diphosphite catalysts for the asymmetric allylic substitution reactions. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3363-8	4.2	60
148	Asymmetric hydroformylation of styrene catalyzed by carbohydrate diphosphite-Rh(I) complexes. <i>New Journal of Chemistry</i> , 2002 , 26, 827-833	3.6	60
147	Highly enantioselective Rh-catalyzed hydrogenation based on phosphine-phosphite ligands derived from carbohydrates. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8364-9	4.2	60
146	Artificial Metalloenzymes in Asymmetric Catalysis: Key Developments and Future Directions. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1567-1586	5.6	56
145	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
144	Chiral phosphite-oxazolines: a new class of ligands for asymmetric Heck reactions. <i>Organic Letters</i> , 2005 , 7, 5597-9	6.2	56
143	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
142	Novel diphosphite derived from D-gluco-furanose provides high regio- and enantioselectivity in Rh-catalysed hydroformylation of vinyl arenes. <i>Chemical Communications</i> , 2000 , 1607-1608	5.8	53
141	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
140	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
139	High-Pressure Infrared Studies of Rhodium Complexes Containing Thiolate Bridge Ligands under Hydroformylation Conditions. <i>Organometallics</i> , 1999 , 18, 2107-2115	3.8	50
138	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

137	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
136	Diphosphites as a promising new class of ligands in Pd-catalysed asymmetric allylic alkylation. <i>Chemical Communications</i> , 2001 , 1132-1133	5.8	47
135	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
134	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
133	Asymmetric Hydroformylation 2006 , 35-64		46
132	Chiral phosphine-phosphite ligands in the highly enantioselective rhodium-catalyzed asymmetric hydrogenation. <i>Journal of Organic Chemistry</i> , 2001 , 66, 7626-31	4.2	46
131	Copper-catalysed asymmetric 1,4-addition of organometallic reagents to 2-cyclohexenone using novel phosphine-phosphite ligands. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 3161-3166		45
130	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
129	Recoverable chiral palladium-sulfonated diphosphine catalysts for the asymmetric hydrocarboxylation of vinyl arenes. <i>Tetrahedron: Asymmetry</i> , 1999 , 10, 4463-4467		43
128	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
127	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
126	First successful application of diphosphite ligands in the asymmetric hydroformylation of dihydrofurans. <i>Chemical Communications</i> , 2005 , 1221-3	5.8	40
125	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
124	Chiral diphosphites derived from d-glucose in the copper-catalyzed conjugate addition of diethylzinc to cyclohexenone. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 2895-2900		40
123	Thioether containing ligands for asymmetric allylic substitution reactions. <i>Comptes Rendus Chimie</i> , 2007 , 10, 188-205	2.7	39
122	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
121	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
120	Phosphite-oxazole/imidazole ligands in asymmetric intermolecular Heck reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 941-6	3.9	38

119	Rhodium-diphosphine catalysts for the hydroformylation of styrene: the influence of the excess of ligand and the chelate ring size on the reaction selectivity. <i>Journal of Molecular Catalysis A</i> , 1999 , 143, 111-122		37
118	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
117	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
116	Phosphine- β phosphite, a new class of auxiliaries in highly active and enantioselective hydrogenation. <i>Chemical Communications</i> , 2000 , 2383-2384	5.8	36
115	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
114	Highly active and enantioselective copper-catalyzed conjugate addition of diethylzinc to cyclohexenone using sugar derivative diphosphites. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 4377-4383		35
113	Furanoside thioether- β phosphinite ligands for Pd-catalyzed asymmetric allylic substitution reactions. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 959-963		34
112	Chiral phosphite- β phosphoroamidites: a new class of ligand for asymmetric catalytic hydrogenation. <i>Chemical Communications</i> , 2001 , 2702-2703	5.8	34
111	A new modular phosphite-pyridine ligand library for asymmetric Pd-catalyzed allylic substitution reactions: a study of the key Pd- η -allyl intermediates. <i>Chemistry - A European Journal</i> , 2013 , 19, 2416-32	4.8	33
110	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
109	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
108	Chiral furanoside phosphite- β phosphoroamidites: new ligands for asymmetric catalytic hydroformylation. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 2827-2834		32
107	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
106	Stereospecific S(N) ₂ @P reactions: novel access to bulky P-stereogenic ligands. <i>Chemical Communications</i> , 2015 , 51, 17548-51	5.8	30
105	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
104	Sugar- β phosphite- β oxazoline and phosphite- β phosphoroamidite ligand libraries for Cu-catalyzed asymmetric 1,4-addition reactions. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 1613-1617		29
103	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
102	Chiral S,S-donor ligands in palladium-catalysed allylic alkylation. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 1469-1474		27

101	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
100	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
99	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
98	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
97	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
96	Expanded Scope of the Asymmetric Hydrogenation of Minimally Functionalized Olefins Catalyzed by Iridium Complexes with Phosphite-Thiazoline Ligands. <i>ChemCatChem</i> , 2013 , 5, 2410-2417	5.2	25
95	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
94	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
93	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
92	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
91	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
90	Iridium complexes containing the first sugar dithioether ligands. Application as catalyst precursors in asymmetric hydrogenation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999 , 3439-3444		23
89	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
88	Synthesis and reactivity of cationic iridium(I) complexes of cycloocta-1,5-diene and chiral dithioether ligands. Application as catalyst precursors in asymmetric hydrogenation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 4611-4618		22
87	New chiral amino-phosphite and phosphite-phosphoroamidite ligands for the copper-catalyzed asymmetric 1,4-addition of diethylzinc to cyclohexenone. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 2861-2866		21
86	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
85	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
84	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

83	Fine-tunable monodentate phosphoramidite and aminophosphine ligands for Rh-catalyzed asymmetric hydroformylation. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 2153-2157		20
82	Rhodium-sulfonated diphosphine catalysts in aqueous hydroformylation of vinyl arenes: high-pressure NMR and IR studies. <i>Journal of Molecular Catalysis A</i> , 2003 , 195, 113-124		20
81	Conformational Preferences of a Tropos Biphenyl Phosphinooxazoline Ligand with Wide Substrate Scope. <i>ACS Catalysis</i> , 2016 , 6, 1701-1712	13.1	19
80	Furanoside diphosphinites as suitable ligands for the asymmetric catalytic hydrogenation of prochiral olefins. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2247-2251		19
79	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
78	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
77	Furanoside thioether-phosphinite ligands for Pd-catalyzed asymmetric allylic substitution reactions: Scope and limitations. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 2257-2262	2.3	18
76	Furanoside thioether-phosphinite ligands for Rh-catalyzed asymmetric hydrosilylation of ketones. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 3877-3880		18
75	Adaptable P-X Biaryl Phosphite/Phosphoramidite-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
74	Modular carbohydrate diphosphite and phosphite-phosphoramidite ligands for asymmetric Rh-catalyzed hydrosilylation of ketones. <i>Tetrahedron: Asymmetry</i> , 2002 , 13, 83-86		17
73	Furanoside diphosphines derived from d-(+)-xylose and d-(+)-glucose as ligands in rhodium-catalyzed asymmetric hydroformylation reactions. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 651-656		17
72	Phosphite-Thioether Ligands Derived from Carbohydrates allow the Enantioswitchable Hydrogenation of Cyclic α -Enamides by using either Rh or Ir Catalysts. <i>Chemistry - A European Journal</i> , 2017 , 23, 813-822	4.8	16
71	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
70	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
69	Iridium-Catalyzed Hydrogenation Using Phosphorus Ligands. <i>Topics in Organometallic Chemistry</i> , 2011 , 11-29	0.6	16
68	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
67	Mixed thioether-phosphite and phosphine-phosphite ligands for copper-catalyzed asymmetric 1,4-addition of organometallic reagents to cyclohexenone. <i>Journal of Molecular Catalysis A</i> , 2002 , 185, 11-16		16
66	Thioether-phosphinite 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

- 65 Iridium complexes with new 1,2-dithioether chiral ligands containing a rigid cyclic backbone. Application in homogeneous catalytic asymmetric hydrogenation. *Journal of the Chemical Society Dalton Transactions*, **1998**, 3517-3522 16
- 64 Asymmetric Catalyzed Allylic Substitution Using a Pd/PB Catalyst Library with Exceptional High Substrate and Nucleophile Versatility: DFT and Pd-allyl Key Intermediates Studies. *Organometallics*, **2016**, 35, 3323-3335 3.8 16
- 63 Sugar-based phosphite and phosphoroamidite ligands for the Cu-catalyzed asymmetric 1,4-addition to enones. *Tetrahedron: Asymmetry*, **2009**, 20, 2167-2172 15
- 62 Rhodium cationic complexes using dithioethers as chiral ligands. Application in styrene hydroformylation. *Journal of Organometallic Chemistry*, **1998**, 559, 23-29 2.3 14
- 61 Synthesis of novel diphosphines from d-(+)-glucose. Use in asymmetric hydrogenation. *Tetrahedron: Asymmetry*, **2000**, 11, 4701-4708 14
- 60 IrBiaryl phosphite-oxazoline catalyst libraries: a breakthrough in the asymmetric hydrogenation of challenging olefins. *Catalysis Science and Technology*, **2020**, 10, 613-624 5.5 13
- 59 Designing new readily available sugar-based ligands for asymmetric transfer hydrogenation of ketones. In the quest to expand the substrate scope. *Tetrahedron Letters*, **2016**, 57, 1301-1308 2 13
- 58 Asymmetric Intermolecular Mizoroki-Heck Reaction: From Phosphine/Phosphinite-Nitrogen to Phosphite-Nitrogen Ligands. *Israel Journal of Chemistry*, **2012**, 52, 572-581 3.4 13
- 57 Screening of a modular sugar-based phosphoroamidite ligand library in the asymmetric nickel-catalyzed trialkylaluminium addition to aldehydes. *Tetrahedron: Asymmetry*, **2009**, 20, 1575-1579 13
- 56 Phosphite-oxazoline ligands for Rh-catalyzed asymmetric hydrosilylation of ketones. *Journal of Molecular Catalysis A*, **2006**, 249, 207-210 13
- 55 Synthesis, reactivity and catalytic properties of rhodium complexes of (R,R)-1-benzyl-3,4-dithioetherpyrrolidines. *Inorganica Chimica Acta*, **1999**, 295, 64-70 2.7 13
- 54 Giving a Second Chance to Ir/Sulfoximine-Based Catalysts for the Asymmetric Hydrogenation of Olefins Containing Poorly Coordinative Groups. *Journal of Organic Chemistry*, **2019**, 84, 8259-8266 4.2 12
- 53 Furanoside phosphite-phosphoroamidite: new ligand class for the asymmetric nickel-catalyzed trialkylaluminium addition to aldehydes. *Tetrahedron Letters*, **2009**, 50, 4495-4497 2 12
- 52 Hydroformylation of oct-1-ene catalyzed by dinuclear gem-dithiolato-bridged rhodium(I) complexes and phosphorus donor ligands. *Journal of Molecular Catalysis A*, **2009**, 300, 121-131 12
- 51 Screening of modular sugar phosphite-oxazoline and phosphite-phosphoroamidite ligand libraries in the asymmetric nickel-catalyzed trialkylaluminium addition to aldehydes. *Inorganica Chimica Acta*, **2008**, 361, 1381-1384 2.7 12
- 50 Pyranoside phosphite-phosphoroamidite ligands for Pd-catalyzed asymmetric allylic alkylation reactions. *Tetrahedron: Asymmetry*, **2006**, 17, 3282-3287 12
- 49 Asymmetric hydroformylation of vinyl arenes catalyzed by furanoside diphosphinites-Rh(I) complexes. *Applied Catalysis A: General*, **2005**, 282, 215-220 5.1 12
- 48 Rh-catalyzed asymmetric hydrogenation using a furanoside monophosphite second-generation ligand library: scope and limitations. *Tetrahedron: Asymmetry*, **2014**, 25, 258-262 11

47	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
46	Evolution of phosphorus-thioether ligands for asymmetric catalysis. <i>Chemical Communications</i> , 2020 , 56, 10795-10808	5.8	11
45	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
44	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
43	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
42	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
41	Sugar-monophosphite ligands applied to the asymmetric Ni-catalyzed trialkylaluminum addition to aldehydes. <i>Tetrahedron: Asymmetry</i> , 2011 , 22, 834-839		10
40	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
39	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
38	Ir/Thioether-Carbene, Phosphinite, and Phosphite Complexes for Asymmetric Hydrogenation. A Case for Comparison. <i>Organometallics</i> , 2019 , 38, 4193-4205	3.8	9
37	Enantioselective Carbonylation Reactions ⁶⁵⁻⁹²		9
36	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
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30	An Improved Class of Phosphite-Oxazoline Ligands for Pd-Catalyzed Allylic Substitution Reactions. <i>ACS Catalysis</i> , 2019 , 9, 6033-6048	13.1	7

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19	Asymmetric Rh-catalyzed hydrogenation using a furanoside phosphite-phosphoroamidite and diphosphoroamidite ligand library. <i>Dalton Transactions</i> , 2012 , 41, 3038-45	4.3	5
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16	Novel chiral dithioethers derived from l-tartaric acid. <i>Tetrahedron: Asymmetry</i> , 2001 , 12, 3029-3034		4
15	Synthesis and stereochemical study of new complexes of Pd and Pt with chiral dithioether ligands. <i>Dalton Transactions RSC</i> , 2000 , 4154-4159		4
14	Chiral Ligands		4
13	Carbohydrate-Derived Ligands in Asymmetric Heck Reactions	2013 , 245-251	3
12	Synthesis and structural studies of rhodium(I)-catalytic precursors containing two furanoside diphosphines. <i>Journal of Organometallic Chemistry</i> , 2001 , 629, 77-82	2.3	3

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7	Carbohydrate-Derived Ligands in Asymmetric Tsuji-Trost Reactions 2013 , 217-244		1
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5	Asymmetric hydrogenation in industry. <i>Advances in Catalysis</i> , 2021 , 341-383	2.4	0
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2	Cationic iridium complexes with C2-symmetry binaphthalene-core disulfide ligands. <i>Inorganica Chimica Acta</i> , 2004 , 357, 2957-2964	2.7	
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