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Chiral diphosphine and monodentate phosphorus ligands on a spiro scaffold for transition-metal-catalyzed asymmetric reactions

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#	Paper	IF	Citations
558	ChemInform Abstract: Chiral Diphosphine and Monodentate Phosphorus Ligands on a Spiro Scaffold for Transition-Metal-Catalyzed Asymmetric Reactions. <b>2008</b> , 39, no		
557	Divergent synthesis of chiral spiro (isoxazoleßoxazoline) hybrid ligands. 2008, 19, 2492-2496		27
556	Marked deuterium isotope effects on the enantioselectivity in rhodium-catalyzed asymmetric hydrogenation of enamides. <b>2008</b> , 3, 1636-41		26
555	Enamides: valuable organic substrates. <b>2008</b> , 6, 3455-60		252
554	Synthesis, structure, and optoelectronic properties of phosphafluorene copolymers. <i>Organic Letters</i> , <b>2008</b> , 10, 2913-6	6.2	74
553	Controllable one-step synthesis of spirocycles, polycycles, and di- and tetrahydronaphthalenes from aryl-substituted propargylic alcohols. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 6845-8	4.2	52
552	rac-Carbon-yl{1-[(diphenyl-phosphino)meth-yl]ethanethiol-ato}(triphenyl-phosphine)rhodium(I). <b>2008</b> , 64, m1465		1
551	Phosphine-Catalyzed Enantioselective Synthesis of Oxygen Heterocycles. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 2259-2261	3.6	74
550	Enantioselective, High-Yielding Synthesis of Alcohol-Functionalized Diphosphanes Utilizing Asymmetric Control with a Chiral Auxiliary. <b>2009</b> , 2009, 2375-2382		14
549	Spiro[4,4]-1,6-nonadiene-Based Phosphine Dxazoline Ligands for Iridium-Catalyzed Enantioselective Hydrogenation of Ketimines. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 5449-5453	3.6	77
548	Effiziente enantioselektive Synthese von optisch aktiven Diolen durch asymmetrische Hydrierung mittels modular aufgebauter chiraler Metallkatalysatoren. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 7693-7696	3.6	12
547	Phosphine-catalyzed enantioselective synthesis of oxygen heterocycles. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 2225-7	16.4	198
546	Spiro[4,4]-1,6-nonadiene-based phosphine-oxazoline ligands for iridium-catalyzed enantioselective hydrogenation of ketimines. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5345-9	16.4	191
545	Efficient enantioselective synthesis of optically active Diols by asymmetric hydrogenation with modular chiral metal catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7556-9	16.4	39
544	From allylic alcohols to chiral tertiary homoallylic alcohol: palladium-catalyzed asymmetric allylation of isatins. <b>2009</b> , 20, 1254-1261		66
543	Hydrothermal Synthesis of Chiral Metal(II) Phosphinates Derived from Camphor. <b>2009</b> , 635, 1412-1419		7
542	Synthesis of atropisomeric 5,5?-linked biphenyl bisaminophosphine ligands and their applications in asymmetric catalysis. <b>2009</b> , 65, 1281-1286		18

### (2010-2009)

541	mesoporous SBA-15-supported chiral catalysts: preparation, characterization and asymmetric catalysis. <b>2009</b> , 20, 240-246	17
540	Axially 4,4?-di-tert-butyl TunePhos-type chiral diphosphine ligand: synthesis and applications in asymmetric hydrogenation. <b>2009</b> , 50, 1038-1040	10
539	Group 9 half-sandwich complexes containing the unique P,P?-diphenyl-1,4-diphospha-cyclohexane ligand: Synthesis, X-ray structure analyses and spectroscopic studies. <b>2009</b> , 694, 3506-3510	1
538	Di- and tetranulcear RuII complexes of phenylene-1,4-diaminotetra(phosphonite), p-C6H4[N{P(OC6H4OMe-o)2}2]2 and their catalytic investigation towards transfer hydrogenation reactions. <b>2009</b> , 694, 3390-3394	16
537	Spiro skeletons: a class of privileged structure for chiral ligand design. <b>2009</b> , 4, 32-41	209
536	Enantioselective synthesis of C2-symmetric spirobilactams via Pd-catalyzed intramolecular double N-arylation. <i>Organic Letters</i> , <b>2009</b> , 11, 1483-6	37
535	Iridium-N,P-ligand-catalyzed enantioselective hydrogenation of diphenylvinylphosphine oxides and vinylphosphonates. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8285-9	78
534	Enantioselective intramolecular oxidative aminocarbonylation of alkenylureas catalyzed by palladium-spiro bis(isoxazoline) complexes. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 9274-9	84
533	Synthesis of a new spiro-BOX ligand and its application in enantioselective allylic cyclization based on carbopalladation of allenyl hydrazines. <b>2009</b> , 6198-200	23
532	Synthesis and application of bulky phosphoramidites: highly effective monophosphorus ligands for asymmetric hydrosilylation of styrenes. <b>2009</b> , 7, 4470-4	28
531	New Binaphthyl-basedC3-symmetric Chiral Hemilabile Monophosphite Ligands: Synthesis and Characterization of Their Platinum Complexes. <b>2009</b> , 38, 844-845	18
530	Development of Chiral Spiro Ligands for Metal-Catalyzed Asymmetric Reactions. <b>2009</b> , 82, 285-302	83
529	Hydrogenation⊞omogeneous. <b>2010</b> ,	
528	Axial [6,6?-(2,4-pentadioxy)]-1,1?-biphenyl-2,2?-diamine (PD-BIPHAM): practical synthesis and applications in asymmetric hydrogenation. <b>2010</b> , 66, 3702-3706	11
527	Asymmetric synthesis of chiral spiro bis(isoxazoline) and spiro (isoxazoleßoxazoline) ligands. <b>2010</b> , 21, 379-381	15
526	Nickel-catalyzed enantioselective hydrovinylation of silyl-protected allylic alcohols: An efficient access to homoallylic alcohols with a chiral quaternary center. <i>Science China Chemistry</i> , <b>2010</b> , 53, 1899-1906	12
525	Synthesis of novel chiral bisoxazoline ligands with a spiro[4,4]-1,6-nonadiene skeleton. <b>2010</b> , 55, 2840-2846	7
524	Asymmetric Organocatalytic Conjugate Addition of Diarylphosphane Oxides to Chalcones. <b>2010</b> , 2010, 6736-6739	29

523	Diastereoselective Hydrogenation of Substituted Quinolines to Enantiomerically Pure Decahydroquinolines. <b>2010</b> , 352, 357-362		50
522	Enantioselective Hydrogenation of $\square$ -Dehydroamino Acid Esters Catalyzed by Rhodium Complexes with Chiral Bisaminophosphine Ligands. <b>2010</b> , 352, 1150-1154		8
521	Catalytic Asymmetric Intramolecular Cascade Reaction for the Construction of Functionalized Benzobicyclo[4.3.0] Skeletons. Remote Control of Enantioselectivity. <b>2010</b> , 352, 1914-1919		84
520	Introduction. <b>2010</b> , 1-13		
519	Chiral Amines from Transition-Metal-Mediated Hydrogenation and Transfer Hydrogenation. <b>2010</b> , 179-7	223	5
518	Rhodium-Catalyzed Asymmetric Synthesis of Spirocarbocycles: Arylboron Reagents as Surrogates of 1,2-Dimetalloarenes. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 3883-3886	3.6	40
517	Phosphoramidites: privileged ligands in asymmetric catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2486-528	16.4	518
516	Rhodium-catalyzed asymmetric synthesis of spirocarbocycles: arylboron reagents as surrogates of 1,2-dimetalloarenes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3795-8	16.4	109
515	Bicyclic phosphine-thiazole ligands for the asymmetric hydrogenation of olefins. <b>2010</b> , 21, 1328-1333		32
514	Synthesis of a new type of P,N-ligand with a spiro skeleton for Ir-catalyzed asymmetric hydrogenations. <b>2010</b> , 21, 1529-1533		9
513	Highly efficient and diastereoselective synthesis of 1,3-oxazolidines featuring a palladium-catalyzed cyclization reaction of 2-butene-1,4-diol derivatives and imines. <b>2010</b> , 51, 5131-513	3	9
512	Preparation of 2-phospholene derivatives from zirconacyclopentenes. <b>2010</b> , 51, 6136-6138		9
511	The BaeyerVilliger oxidation of ketones: A paradigm for the role of soft Lewis acidity in homogeneous catalysis. <b>2010</b> , 254, 646-660		95
510	(11aR)-(+)-10,11,12,13-Tetrahydro-5-phenoxydiindeno[7,1-de:1?,7?-fg][1,3,2]dioxaphosphocin and (11aS)-(		
509	SPINOL-derived phosphoric acids: synthesis and application in enantioselective Friedel-Crafts reaction of indoles with imines. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 8677-80	4.2	211
508	Kinetic resolution of homoaldols via catalytic asymmetric transacetalization. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17370-3	16.4	285
507	Highly enantioselective hydrogenation of alpha-arylmethylene cycloalkanones catalyzed by iridium complexes of chiral spiro aminophosphine ligands. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4538-9	16.4	85
506	Asymmetric Synthesis of New Diphosphines and Pyridylphosphines via a Kinetic Resolution Process Promoted and Controlled by a Chiral Palladacycle. <i>Organometallics</i> , <b>2010</b> , 29, 3374-3386	3.8	27

# (2011-2010)

505	Regio- and enantioselective intermolecular hydroacylation: substrate-directed addition of salicylaldehydes to homoallylic sulfides. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16330-3	152
504	Enantiopure 1,2-bis(tert-butylmethylphosphino)benzene as a highly efficient ligand in rhodium-catalyzed asymmetric hydrogenation. <i>Organic Letters</i> , <b>2010</b> , 12, 4400-3	77
503	P-heterocycles as ligands in homogeneous catalytic reactions. <b>2010</b> , 110, 4257-302	223
502	New chiral and flexible metal-organic framework with a bifunctional spiro linker and Zn4O-nodes. <b>2010</b> , 49, 4440-6	48
501	Enantioselective Hydrogenation Catalysis Aided by a Bonded Calix[4]arene to a P-Chirogenic Aminophosphane Phosphinite Rhodium Complex Organometallics, <b>2010</b> , 29, 3622-3631	31
500	Novel Synthesis of Chiral 1,3-Diphosphines via Palladium Template Promoted Hydrophosphination and Functional Group Transformation Reactions. <i>Organometallics</i> , <b>2010</b> , 29, 3582-3588	18
499	A bifunctional spiro-type organocatalyst with high enantiocontrol: application to the aza-Morita-Baylis-Hillman reactions. <b>2011</b> , 47, 9227-9	46
498	Organocatalytic chemoselective asymmetric N-allylic alkylation of enamides. <b>2011</b> , 47, 4784-6	44
497	Spiro-2,2?-bichroman-based bisoxazoline (SPANbox) ligands for ZnII-catalyzed enantioselective hydroxylation of 帐eto esters and 1,3-diester. <b>2011</b> , 2, 1141	71
496	Highly enantioselective palladium-catalyzed umpolung allylation of aldehydes. <b>2011</b> , 2, 1135	48
495	Optically active 1,1'-spirobiindane-7,7'-diol (SPINOL)-based phosphoric acids as highly enantioselective catalysts for asymmetric organocatalysis. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 4125-3 <sup>12</sup>	119
494	A 9,9?-spirobifluorene based Metal©rganic Framework: synthesis, structure analysis and gas sorption properties. <b>2011</b> , 21, 18715	46
493	Chiral Spiro Ligands. <b>2011</b> , 137-170	34
492	Asymmetric Catalysis from a Chinese Perspective. 2011,	1
491	A facile Cu(I)/TF-BiphamPhos-catalyzed asymmetric approach to unnatural $\oplus$ -amino acid derivatives containing gem-bisphosphonates. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11757-65	80
490	An overview of chiral molybdenum complexes applied in enantioselective catalysis. <b>2011</b> , 1, 1109	27
489	Enantioselective \(\text{\textit{-}}\)-tosyloxylation of ketones catalyzed by spirobiindane scaffold-based chiral iodoarenes. <b>2011</b> , 22, 2039-2055	51
488	The Synthesis of Chiral Phosphorus Ligands for use in Homogeneous Metal Catalysis. <b>2011</b> , 3, 1708-1730	128

487	Chiral Spiro Catalysts. <b>2011</b> , 1-28		17
486	A Practical Asymmetric Synthesis of Enantiopure Spiro[4,4]nonane-1,6-dione. <b>2011</b> , 353, 1584-1590		27
485	The Growing Impact of Catalysis in the Pharmaceutical Industry. <b>2011</b> , 353, 1825-1864		359
484	P-Stereogenic Pinene-Derived Phosphoramidites and Their Use in Copper-Catalyzed Conjugate Additions. <b>2011</b> , 2011, 384-392		4
483	Enantioselective Rhodium-Catalyzed Allylic C?H Activation for the Addition to Conjugated Dienes. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2192-2195	3.6	30
482	A Highly Enantioselective One-Pot Synthesis of Spirolactones by an Organocatalyzed Michael Addition/Cyclization Sequence. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9554-9557	3.6	15
481	Asymmetric Hydrogenation of 日- and 駐namido Phosphonates: Rhodium(I)/Monodentate Phosphoramidite Catalyst. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11947-11951	3.6	14
480	Visual Chiral Recognition through Enantioselective Metallogel Collapsing: Synthesis, Characterization, and Application of PlatinumBteroid Low-Molecular-Mass Gelators. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6731-6735	3.6	58
479	Enantioselective rhodium-catalyzed allylic C-H activation for the addition to conjugated dienes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2144-7	16.4	69
478	Visual chiral recognition through enantioselective metallogel collapsing: synthesis, characterization, and application of platinum-steroid low-molecular-mass gelators. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6601-5	16.4	208
477	A highly enantioselective one-pot synthesis of spirolactones by an organocatalyzed Michael addition/cyclization sequence. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9382-5	16.4	47
476	Asymmetric hydrogenation of $\Box$ - and $\Box$ - and continuous phosphonates: rhodium(I)/monodentate phosphoramidite catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11743-7	16.4	59
475	Palladium-catalyzed asymmetric hydrogenation of simple ketones activated by Brfisted acids. <b>2011</b> , 52, 2826-2829		32
474	5.11 Reduction [Hydrogenation: C=O; Chemoselective. <b>2012</b> , 270-300		8
473	Pd(II)/Brlisted acid catalyzed enantioselective allylic C-H activation for the synthesis of spirocyclic rings. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3615-8	16.4	173
472	Organocatalytic Asymmetric Double Michael Reaction of Benzofuranone with Dienones to Construct Spirocyclic Benzofuranones. <b>2012</b> , 30, n/a-n/a		2
471	Spiroketal-based phosphorus ligands for highly regioselective hydroformylation of terminal and internal olefins. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 15288-95	4.8	44
470	Highly enantioselective asymmetric hydrogenation of (E)-刪isubstituted ∃,和nsaturated Weinreb amides catalyzed by Ir(I) complexes of SpinPhox ligands. <b>2012</b> , 48, 5172-4		67

### (2012-2012)

469	Bis(perfluoroalkyl) phosphino-oxazoline: a modular, stable, strongly Eaccepting ligand for asymmetric catalysis. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 7957-67	4.2	25
468	Rh(I)/DpenPhos catalyzed asymmetric hydrogenation of enol esters and potassium (E)-3-cyano-5-methylhex-3-enoate. <b>2012</b> , 68, 7581-7585		17
467	Enantioselective hydrogenation of (Z)- and (E)-to represent the second		20
466	Rhodium/tris-binaphthyl chiral monophosphite complexes: Efficient catalysts for the hydroformylation of disubstituted aryl olefins. <b>2012</b> , 698, 28-34		25
465	Aromatic Spiroketal Bisphosphine Ligands: Palladium-Catalyzed Asymmetric Allylic Amination of Racemic Morita <b>B</b> aylis⊞illman Adducts. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9410-9416	3.6	46
464	Aromatic spiroketal bisphosphine ligands: palladium-catalyzed asymmetric allylic amination of racemic Morita-Baylis-Hillman adducts. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9276-82	16.4	163
463	Stereoselective Synthesis of Optically Active Hydrobenzoins via Asymmetric Hydrogenation of Benzils with Ru(OTf)(TsDPEN)(Ib-cymene) as the Pre-catalyst. <b>2012</b> , 30, n/a-n/a		2
462	An Overview of Recent Developments in Metal-Catalyzed Asymmetric Transformations. <b>2012</b> , 335-366		4
461	CeCl3I7H2O catalyzed C-C and C-N bond-forming cascade cyclization with subsequent side-chain functionalization and rearrangement: a domino approach to pentasubstituted pyrrole analogues. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 10441-9	4.2	38
460	Developing Catalytic Asymmetric Acetalizations. <b>2012</b> , 165-193		44
460 459			24
	Developing Catalytic Asymmetric Acetalizations. <b>2012</b> , 165-193  Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene		
459	Developing Catalytic Asymmetric Acetalizations. 2012, 165-193  Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene units: Synthesis, thermal, optical and chiral properties. 2012, 53, 5706-5716		24
459 458	Developing Catalytic Asymmetric Acetalizations. 2012, 165-193  Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene units: Synthesis, thermal, optical and chiral properties. 2012, 53, 5706-5716  Phosphoramidite Ligands. 2012, 133-157  Asymmetric hydrogenation of ⊕- or ∰cyloxy ⊕, ∰unsaturated phosphonates catalyzed by a Rh(I)		24
459 458 457	Developing Catalytic Asymmetric Acetalizations. 2012, 165-193  Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene units: Synthesis, thermal, optical and chiral properties. 2012, 53, 5706-5716  Phosphoramidite Ligands. 2012, 133-157  Asymmetric hydrogenation of 🗄- or 🛱 cyloxy 🗗, 🖺 unsaturated phosphonates catalyzed by a Rh(I) complex of monodentate phosphoramidite. 2012, 10, 1598-601  Construction of adjacent spiro-quaternary and tertiary stereocenters through phosphine-catalyzed	3.8	24 4 23
459 458 457 456	Developing Catalytic Asymmetric Acetalizations. 2012, 165-193  Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene units: Synthesis, thermal, optical and chiral properties. 2012, 53, 5706-5716  Phosphoramidite Ligands. 2012, 133-157  Asymmetric hydrogenation of 日- or 軸cyloxy日,和nsaturated phosphonates catalyzed by a Rh(I) complex of monodentate phosphoramidite. 2012, 10, 1598-601  Construction of adjacent spiro-quaternary and tertiary stereocenters through phosphine-catalyzed asymmetric [3+2] annulation of allenoates with alkylidene azlactones. 2012, 48, 2764-6  Chiral Phosphapalladacycles as Efficient Catalysts for the Asymmetric Hydrophosphination of Substituted Methylidenemalonate Esters: Direct Access to Functionalized Tertiary Chiral	3.8	<ul><li>24</li><li>4</li><li>23</li><li>86</li></ul>
459 458 457 456 455	Novel soluble and optically active polyimides containing axially asymmetric 9,9?-spirobifluorene units: Synthesis, thermal, optical and chiral properties. 2012, 53, 5706-5716  Phosphoramidite Ligands. 2012, 133-157  Asymmetric hydrogenation of 日- or 軸cyloxy 日,和nsaturated phosphonates catalyzed by a Rh(I) complex of monodentate phosphoramidite. 2012, 10, 1598-601  Construction of adjacent spiro-quaternary and tertiary stereocenters through phosphine-catalyzed asymmetric [3+2] annulation of allenoates with alkylidene azlactones. 2012, 48, 2764-6  Chiral Phosphapalladacycles as Efficient Catalysts for the Asymmetric Hydrophosphination of Substituted Methylidenemalonate Esters: Direct Access to Functionalized Tertiary Chiral Phosphines. Organometallics, 2012, 31, 3022-3026  Rh(I)-catalyzed enantioselective hydrogenation of 日-substituted ethenylphosphonic acids. Journal		24 4 23 86 60

451	Transition-metal-catalyzed enantioselective heteroatom-hydrogen bond insertion reactions. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 1365-77	24.3	509
450	Rigid P-chiral phosphine ligands with tert-butylmethylphosphino groups for rhodium-catalyzed asymmetric hydrogenation of functionalized alkenes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1754-69	16.4	199
449	Catalytic Asymmetric Synthesis of Aromatic Spiroketals by SpinPhox/Iridium(I)-Catalyzed Hydrogenation and Spiroketalization of ⊞,⊞?-Bis(2-hydroxyarylidene) Ketones. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 960-964	3.6	60
448	Highly enantioselective iridium-catalyzed hydrogenation of 日,和nsaturated esters. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 10609-16	4.8	63
447	Copper-catalyzed highly efficient aerobic oxidative synthesis of imines from alcohols and amines. <b>2012</b> , 14, 1016		91
446	Chiral NHCEnetal-based asymmetric catalysis. <b>2012</b> , 256, 804-853		269
445	Asymmetric Allylboration of Aldehydes with Pinacol Allylboronates Catalyzed by 1,1?-Spirobiindane-7,7?-diol (SPINOL) Based Phosphoric Acids. <b>2012</b> , 2012, 1115-1118		45
444	Catalytic asymmetric synthesis of aromatic spiroketals by spinphox/iridium(I)-catalyzed hydrogenation and spiroketalization of \(\mathre{H}\),\(\mathre{H}'\)-bis(2-hydroxyarylidene) ketones. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 936-40	16.4	196
443	Palladium-Catalyzed Asymmetric Intermolecular Cyclization. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8838-8842	3.6	23
442	Highly active catalysts of bisphosphine oxides for asymmetric Heck reaction. <b>2013</b> , 49, 9425-7		56
441	Spiro[4,4]-1,6-nonadiene-based diphosphine oxides in lewis base catalyzed asymmetric double-aldol reactions. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11054-8	16.4	28
440	Chiral C2 Catalysts. <b>2013</b> , 161-193		1
439	Iridium catalysis: application of asymmetric reductive hydrogenation. 2013, 42, 14345-56		22
438	Tunable ferrocenyl-phosphinite ligands for the ruthenium(II)-catalyzed asymmetric transfer hydrogenation of ketones. <b>2013</b> , 379, 225-233		17
437	Comparison Of Asymmetric Hydrogenations Of Unsaturated- Carboxylic Acids And -Esters. <b>2013</b> , 3, 237-2	249	43
436	Development of a novel multifunctional n,p ligand for highly enantioselective palladium-catalyzed asymmetric allylic etherification of alcohols and silanols. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 15452	4 <del>7</del> 8	31
435	[3,3]Paracyclophanes as planar chiral scaffolds for the synthesis of new phosphoric acids. <b>2013</b> , 49, 6084	-6	26
434	Advances in transition metal-catalyzed asymmetric hydrogenation of heteroaromatic compounds. <b>2014</b> , 343, 145-90		94

Practical Asymmetric Catalytic Synthesis of Spiroketals and Chiral Diphosphine Ligands. 2013, 355, 2900-2907 51 433 Facile conversion of chromane-6-triflate to chromane-6-alanines under Palladium conditions. 2013, 432 54, 811-813 Asymmetric rearrangement of racemic epoxides catalyzed by chiral Brfisted acids. 2013, 11, 1460-2 431 27 Asymmetric Hydrogenation of  $\oplus$ , $\oplus$ ?-Disubstituted Cycloketones through Dynamic Kinetic Resolution: An Efficient Construction of Chiral Diols with Three Contiguous Stereocenters. 3.6 430 24 Angewandte Chemie, **2013**, 125, 621-624 Asymmetric hydrogenation of  $\exists_{\cdot}$   $\exists_{\cdot}$  disubstituted cycloketones through dynamic kinetic resolution: an efficient construction of chiral diols with three contiguous stereocenters. Angewandte Chemie -68 16.4 429 International Edition, 2013, 52, 593-6 Synthesis of Ar-BINMOL Ligands by [1,2]-Wittig Rearrangement to Probe Their Catalytic Activity in 428 41 1,2-Addition Reactions of Aldehydes with Grignard Reagents. 2013, 2013, 748-755 Aminocatalytic asymmetric Diels Alder reaction of phosphorus dienophiles and 2,4-dienals. 2013, 427 23 69, 10369-10374 Enantioselective Palladium-Catalyzed Ring-Opening Reaction of Azabenzonorbornadienes with 426 16 Methyl 2-Iodobenzoate: An Efficient Access to cis-Dihydrobenzo[c]phenanthridinones. 2013, 355, 2833-2838 Asymmetric Intramolecular Hydroamination of Allenes using Mononuclear Gold Catalysts. 3.8 425 44 Organometallics, 2013, 32, 5589-5600 Catalytic asymmetric C-N bond formation: phosphine-catalyzed intra- and intermolecular Enddition of nitrogen nucleophiles to allenoates and alkynoates. Angewandte Chemie - International Edition, 16.4 105 424 2013, 52, 2525-8 Enantioselective synthesis of 1,2,4-triazolines by chiral iron(II)-complex catalyzed cyclization of 31 423 ∃-isocyano esters and azodicarboxylates. 2013, 49, 2572-4 Enantioselective synthesis of multisubstituted biaryl skeleton by chiral phosphoric acid catalyzed 422 234 desymmetrization/kinetic resolution sequence. Journal of the American Chemical Society, 2013, 135, 396 $\frac{1670}{100}$ Recent developments in catalytic asymmetric inverse-electron-demand Diels-Alder reaction. 2013, 421 402 113, 5515-46 Catalytic asymmetric construction of quaternary  $\oplus$ -amino acid containing pyrrolidines through 1,3-dipolar cycloaddition of azomethine ylides to  $\Box$ -aminoacrylates. Chemistry - A European Journal, 4.8 47 **2013**, 19, 6739-45 Architectural spiroligomers designed for binuclear metal complex templating. 2013, 52, 6457-63 419 11 Gold/Brlisted acid relay catalysis for enantioselective construction of spirocyclic diketones. 4.8 418 52 Chemistry - A European Journal, 2013, 19, 6984-8 Catalytic Asymmetric Hydrogenation of  $\square$ -Arylcyclohexanones and Total Synthesis of 417 27 (№-Lycorane. **2013**, 355, 1597-1604 Palladium-catalyzed asymmetric intermolecular cyclization. Angewandte Chemie - International 416 16.4 66 Edition, 2013, 52, 8676-80

415	The origin of enantioselectivity in the L-threonine-derived phosphine-sulfonamide catalyzed aza-Morita-Baylis-Hillman reaction: effects of the intramolecular hydrogen bonding. <b>2013</b> , 11, 4818-24		39
414	Catalytic Asymmetric C?N Bond Formation: Phosphine-Catalyzed Intra- and Intermolecular FAddition of Nitrogen Nucleophiles to Allenoates and Alkynoates. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2585	3- <del>25</del> 88	31
413	Aminocatalytic asymmetric exo-Diels-Alder reaction with methiodide salts of Mannich bases and 2,4-dienals to construct chiral spirocycles. <i>Organic Letters</i> , <b>2013</b> , 15, 968-71	6.2	28
412	Pd-catalyzed desymmetric intramolecular O-arylation reaction: enantioselective synthesis of (3,4-dihydro-2H-chromen-3-yl)methanols. <i>Organic Letters</i> , <b>2013</b> , 15, 6022-5	6.2	33
411	Stereoselective Hydrogenation of C?C Bonds: Application to Drug and Natural Product Synthesis. <b>2013</b> , 1-50		
410	Spiro[4,4]-1,6-Nonadiene-Based Diphosphine Oxides in Lewis Base Catalyzed Asymmetric Double-Aldol Reactions. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11260-11264	3.6	4
409	Chemical Sciences: Contributions to Building a Sustainable Society and Sharing of International Responsibilities. <b>2014</b> , 101-139		
408	Fluxionally Chiral DMAP Catalysts: Kinetic Resolution of Axially Chiral Biaryl Compounds. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12012-12015	3.6	34
407	Sidearm as a Control in the Asymmetric Ring Opening Reaction of Donor-Acceptor Cyclopropane. <b>2014</b> , 32, 669-672		14
406	Stereoselective Formation of Amines. 2014,		40
405	Highly enantioselective kinetic resolution of axially chiral BINAM derivatives catalyzed by a Brfisted acid. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3684-7	16.4	101
404	Electron-deficient diphosphines: the impact of DIFLUORPHOS in asymmetric catalysis. <b>2014</b> , 114, 2824-	80	93
403	Synthesis of EDxo-日, 聞ehydro-日-amino Acids from NBert-Butyloxycarbonyl-日-Imino Esters and Carbonylmethyl 2-Pyridinylsulfones via an Mannich-Elimination Cascade. <b>2014</b> , 3, 766-768		1
402	SpinPhox/iridium(I)-catalyzed asymmetric hydrogenation of cyclic ∃-alkylidene carbonyl compounds. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1978-82	16.4	64
401	Catalytic asymmetric semipinacol rearrangements. <b>2014</b> , 50, 2393-408		94
400	The application of tunable tridendate P-based ligands for the Ru(II)-catalysed transfer hydrogenation of various ketones. <b>2014</b> , 28, 803-808		8
399	Flexible coordination of diphosphine ligands leading to cis and trans Pd(0), Pd(II), and Rh(I) complexes. <b>2014</b> , 53, 8517-28		27
398	Chiral N,N?-dioxide ligands: synthesis, coordination chemistry and asymmetric catalysis. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 298	5.2	291

397	Asymmetric Diels-Alder reaction of 3-olefinic benzofuran-2-ones and polyenals: construction of chiral spirocyclic benzofuran-2-ones. <i>Organic Letters</i> , <b>2014</b> , 16, 114-7	6.2	43
396	Mechanistic Insight into Asymmetric NH Insertion Cooperatively Catalyzed by a Dirhodium Compound and a Spiro Chiral Phosphoric Acid. <i>Organometallics</i> , <b>2014</b> , 33, 4042-4050	3.8	17
395	8.04 Reduction of CO to CHOH by Metal-Catalyzed Hydrogenation and Transfer Hydrogenation. <b>2014</b> , 198-273		6
394	Planar chiral phosphoric acids with biphenylene-tethered paracyclophane scaffolds: synthesis, characterization, and catalytic screening. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 9639-46	4.2	23
393	Mechanism and selectivity of N-triflylphosphoramide catalyzed (3(+) + 2) cycloaddition between hydrazones and alkenes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13769-80	16.4	58
392	Fluxionally chiral DMAP catalysts: kinetic resolution of axially chiral biaryl compounds. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11818-21	16.4	90
391	Pd(II)-Catalyzed Intermolecular Direct CH Bond Iodination: An Efficient Approach toward the Synthesis of Axially Chiral Compounds via Kinetic Resolution. <b>2014</b> , 4, 2741-2745		169
390	Synthesis, Chiral Resolution, and Absolute Configuration of C2-Symmetric, Chiral 9,9?-Spirobifluorenes. <b>2014</b> , 2014, 6513-6518		14
389	Expedient synthesis of chiral $\oplus$ -amino acids through nickel-catalyzed reductive cross-coupling. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15339-43	4.8	29
388	Synthesis of molecular tripods based on a rigid 9,9'-spirobifluorene scaffold. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 7342-57	4.2	37
387	Asymmetric hydrogenation in the core of dendrimers. Accounts of Chemical Research, 2014, 47, 2894-906	24.3	85
386	Phosphine-initiated domino reaction: a convenient method for the preparation of spirocyclopentanones. <b>2014</b> , 9, 1270-3		31
385	Readily available ferrocenyl-phosphinite ligands for Ru(II)-catalyzed enantioselective transfer hydrogenation of ketones and fabrication of hybrid heterojunctions. <b>2014</b> , 409, 244-253		19
384	SpinPhox/Iridium(I)-Catalyzed Asymmetric Hydrogenation of Cyclic ∃-Alkylidene Carbonyl Compounds. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2009-2013	3.6	16
383	2-Substituted vs 4-substituted-9,9?-spirobifluorene host materials for green and blue phosphorescent OLEDs: a structureproperty relationship study. <b>2014</b> , 70, 6337-6351		37
382	Highly Enantioselective Kinetic Resolution of Axially Chiral BINAM Derivatives Catalyzed by a Bristed Acid. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3758-3761	3.6	49
381	(11aR)-(+)-10,11,12,13-Tetrahydro-5-phenoxydiindeno[7,1-de:1?,7?-fg][1,3,2]dioxaphosphocin and (11aS)-(		
380	Iridium-Catalyzed Enantioselective Hydrogenation of 即isubstituted Nitroalkenes. <b>2015</b> , 357, 3875-3879	)	14

379	Rhodium-Catalyzed Enantioselective Intramolecular C?H Silylation for the Syntheses of Planar-Chiral Metallocene Siloles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7022-7025	3.6	42
378	An Enantioselective Synthesis of Spirobilactams through Copper-Catalyzed Intramolecular Double N-Arylation and Phase Separation. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10917-20	16.4	23
377	Asymmetric Synthesis of Axially Chiral Isoquinolones: Nickel-Catalyzed Denitrogenative Transannulation. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9528-32	16.4	67
376	Amine-Catalyzed Highly Regioselective and Stereoselective C(sp(2) )-C(sp(2) ) Cross-Coupling of Naphthols with trans-日,即nsaturated Aldehydes. <b>2015</b> , 10, 1859-63		5
375	Structural Features and Asymmetric Environment of i-Pr-SPRIX Ligand. <b>2015</b> , 27, 532-7		3
374	Development of Ar-BINMOL-Derived Atropisomeric Ligands with Matched Axial and sp(3) Central Chirality for Catalytic Asymmetric Transformations. <b>2015</b> , 15, 925-48		19
373	Asymmetric Synthesis of Axially Chiral Isoquinolones: Nickel-Catalyzed Denitrogenative Transannulation. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9664-9668	3.6	18
372	An Enantioselective Synthesis of Spirobilactams through Copper-Catalyzed Intramolecular Double N-Arylation and Phase Separation. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11067-11070	3.6	6
371	Development of Chiral Spiro P-N-S Ligands for Iridium-Catalyzed Asymmetric Hydrogenation of FAlkyl-Ketoesters. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8915-8918	3.6	11
370	Development of Chiral Spiro P-N-S Ligands for Iridium-Catalyzed Asymmetric Hydrogenation of	16.4	51
369	Deciphering the Origin of Stereoinduction in Cooperative Asymmetric Catalysis Involving Pd(II) and a Chiral Brflsted Acid. <i>Organic Letters</i> , <b>2015</b> , 17, 2874-7	6.2	11
368	A chiral phosphineBlefin ligand derived from l-hydroxyproline and its use in the rhodium-catalyzed asymmetric 1,4-addition. <b>2015</b> , 26, 679-682		9
367	Phosphine-catalyzed asymmetric [3 + 2] annulation of chalcones with allenoates for enantioselective synthesis of functionalized cyclopentenes. <i>RSC Advances</i> , <b>2015</b> , 5, 105359-105362	3.7	8
366	Iridium-catalyzed asymmetric hydrogenation of 2-pyridyl cyclic imines: a highly enantioselective approach to nicotine derivatives. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 90-3	16.4	51
365	Pd-catalyzed asymmetric intramolecular aryl C-O bond formation with SDP(O) ligand: enantioselective synthesis of (2,3-dihydrobenzo[b][1,4]dioxin-2-yl)methanols. <i>Organic Letters</i> , <b>2015</b> , 17, 840-3	6.2	33
364	Highly Efficient Rh-Catalyzed Asymmetric Hydrogenation of 日,即nsaturated Nitriles. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10177-81	16.4	44
363	Modulation of the Electronic and Mesomorphic Properties of Alkynyl®pirobifluorene Compounds as a Function of the Substitution Pattern. <b>2015</b> , 119, 10564-10575		16
362	Rhodium-catalyzed enantioselective intramolecular C-H silylation for the syntheses of planar-chiral metallocene siloles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6918-21	16.4	129

# (2016-2015)

361	Pd-catalyzed enantioselective intramolecular $\oplus$ -arylation of $\oplus$ -substituted cyclic ketones: facile synthesis of functionalized chiral spirobicycles. <b>2015</b> , 13, 4837-40		17
360	Pd(II)-catalyzed P(O)R(1)R(2)-directed asymmetric C-H activation and dynamic kinetic resolution for the synthesis of chiral biaryl phosphates. <i>Organic Letters</i> , <b>2015</b> , 17, 2034-7	6.2	105
359	Palladium-Catalyzed Asymmetric Reductive Heck Reaction of Aryl Halides. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6631-6635	3.6	56
358	Palladium-catalyzed asymmetric reductive heck reaction of aryl halides. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6531-5	16.4	125
357	Catalytic Kinetic Resolution of Biaryl Compounds. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 11644-57	4.8	140
356	Chiral phosphine-catalyzed tunable cycloaddition reactions of allenoates with benzofuranone-derived olefins for a highly regio-, diastereo- and enantioselective synthesis of spiro-benzofuranones. <b>2015</b> , 6, 7319-7325		69
355	The carbonyl group tuned electron-deficient phosphorus ligands and their application in Rhodium catalyzed arylation to aldehydes. <b>2015</b> , 56, 5673-5675		18
354	Highly Regio- and Enantioselective Alkoxycarbonylative Amination of Terminal Allenes Catalyzed by a Spiroketal-Based Diphosphine/Pd(II) Complex. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15346-9	16.4	74
353	Catalytic Enantioselective Nitroso Diels-Alder Reaction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15957-63	16.4	73
352	Enantioselective Synthesis of Chiral Biaryl Chlorides/Iodides by a Chiral Phosphoric Acid Catalyzed Sequential Halogenation Strategy. <b>2015</b> , 357, 35-40		15
351	Enantioselective synthesis of arylglycine derivatives by direct C-H oxidative cross-coupling. <b>2015</b> , 51, 832-5		70
350	Organosoluble and optically active polyamides based on axially asymmetric 9,9?-spirobifluorene moieties. <b>2015</b> , 27, 288-298		12
349	Enantioselective transfer hydrogenation of various ketones with novel efficient iridium(III) ferrocenyl-phosphinite catalysts. <b>2016</b> , 819, 120-128		13
348	Cooperative Indium(III)/Silver(I) System for Oxidative Coupling/Annulation of 1,3-Dicarbonyls and Styrenes: Construction of Five-Membered Heterocycles. <b>2016</b> , 358, 1934-1941		28
347	A d-Camphor-Based Schiff Base as a Highly Efficient N,P Ligand for Enantioselective Palladium-Catalyzed Allylic Substitutions. <b>2016</b> , 8, 1495-1499		26
346	Palladium-catalyzed CP(III) bond formation reaction with acylphosphines as phosphorus source. <b>2016</b> , 57, 3404-3406		20
345	Phosphoric Acid-Catalyzed Asymmetric Synthesis of SPINOL Derivatives. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16561-16566	16.4	70
344	Palladium-Catalyzed Asymmetric ⊞-Arylation of Alkylnitriles. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16240-16243	16.4	39

343	Electronically deficient (Rax, S, S)-F12-C3-TunePhos and its applications in asymmetric 1,4-addition reactions. <b>2016</b> , 57, 1925-1929		4
342	Synthesis of chiral lactams via asymmetric hydrogenation of ∃, Junsaturated nitriles. <b>2016</b> , 14, 4046-53		14
341	Enantioselective Synthesis of Spirobarbiturate-Cyclohexenes through Phosphine-Catalyzed Asymmetric [4 + 2] Annulation of Barbiturate-Derived Alkenes with Allenoates. <i>Organic Letters</i> , <b>2016</b> , 18, 1302-5	6.2	83
340	Enantioselective iridium-catalyzed hydrogenation of misubstituted nitroalkenes. 2016, 52, 4812-5		19
339	Synthesis and Application of Chiral Spiro Cp Ligands in Rhodium-Catalyzed Asymmetric Oxidative Coupling of Biaryl Compounds with Alkenes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5242-	5 <sup>16.4</sup>	252
338	Chiral oligomers of spiro-salencobalt(III)X for catalytic asymmetric cycloaddition of epoxides with CO2. <b>2016</b> , 81, 50-53		17
337	Asymmetric Hydrogenation of ⊞-Purine Nucleobase-Substituted Acrylates with Rhodium Diphosphine Complexes: Access to Tenofovir Analogues. <i>Organic Letters</i> , <b>2016</b> , 18, 2260-3	6.2	16
336	Catalytic Enantioselective Carbon-Oxygen Bond Formation: Phosphine-Catalyzed Synthesis of Benzylic Ethers via the Oxidation of Benzylic C-H Bonds. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12069-72	16.4	32
335	Spiro Ligands for Asymmetric Catalysis. <b>2016</b> , 66-103		2
334	Development of a Unique Class of Spiro-Type Two-Photon Functional Fluorescent Dyes and Their Applications for Sensing and Bioimaging. <b>2016</b> , 26, 8128-8136		37
333	Highly Efficient Cascade Reaction for Selective Formation of Spirocyclobutenes from Dienallenes via Palladium-Catalyzed Oxidative Double Carbocyclization-Carbonylation-Alkynylation. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13846-13849	16.4	41
332	Enantioselective Copper-Catalyzed Intramolecular NH Bond Insertion: Synthesis of Chiral 2-Carboxytetrahydroquinolines. <b>2016</b> , 358, 2366-2370		25
331	Asymmetric Construction of Highly Functionalized Spirobarbiturate-Cyclopentenes through Chiral Phosphine-Catalyzed [3+2] Annulation of MoritaBaylisHillman Carbonates with Barbiturate-Derived Alkenes. <b>2016</b> , 358, 2867-2872		39
330	A triazine-phosphite polymeric ligand bearing cage-like P,N-ligation sites: an efficient ligand in the nickel-catalyzed amination of aryl chlorides and phenols. <i>RSC Advances</i> , <b>2016</b> , 6, 80670-80678	3.7	10
329	Dioxygen-induced oxidative activation of a P-H bond: radical oxyphosphorylation of alkenes and alkynes toward bxy phosphonates. <b>2016</b> , 52, 12338-12341		45
328	Enantioselective Hydrogenation of Diarylmethanimines for Synthesis of Chiral Diarylmethylamines. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 6640-8	4.2	27
327	Convenient Access to Arylated Spirocyclic Bisphosphonates. <i>ChemistrySelect</i> , <b>2016</b> , 1, 2188-2191	1.8	1
326	Self-Assembled Single-Walled Metal-Helical Nanotube (M-HN): Creation of Efficient Supramolecular Catalysts for Asymmetric Reaction. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15629-15635	16.4	108

325	Chiral Phosphine-Catalyzed Enantioselective [3+2] Annulation of MoritaBaylisHillman Carbonates with Cyclic 1-Azadienes: Synthesis of Functionalized Cyclopentenes. <b>2016</b> , 358, 3517-3521		30
324	Synthesis of Amides with Remote Stereocenters by Catalytic Asymmetric EAlkynylation of 日,即Insaturated Amides. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14872-14875	16.4	35
323	Access to P-Stereogenic Phosphinates via N-Heterocyclic Carbene-Catalyzed Desymmetrization of Bisphenols. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7524-7	16.4	77
322	Asymmetric Synthesis of Chiral Atropisomeric Bis-Aryl Organophosphorus from Menthyl H-Phosphinate. <b>2016</b> , 16, 977-86		20
321	P,S Ligands for the Asymmetric Construction of Quaternary Stereocenters in Palladium-Catalyzed Decarboxylative [4+2] Cycloadditions. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2240-2244	3.6	29
320	The first catalytic asymmetric thioacetalization by chiral phosphoric acid catalysis. <b>2016</b> , 14, 2205-9		9
319	Asymmetric Conjugate Addition of Organoboron Reagents to Common Enones Using Copper Catalysts. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 742-5	16.4	67
318	Highly efficient asymmetric hydrogenation of cyano-substituted acrylate esters for synthesis of chiral 🛘 actams and amino acids. <b>2016</b> , 14, 1216-20		11
317	Enantioselective Rh-Catalyzed Carboacylation of C?N Bonds via C-C Activation of Benzocyclobutenones. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 369-74	16.4	106
316	P,S Ligands for the Asymmetric Construction of Quaternary Stereocenters in Palladium-Catalyzed Decarboxylative [4+2] Cycloadditions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2200-4	16.4	111
315	The enantioselectivity in asymmetric ketone hydrogenation catalyzed by RuH2(diphosphine)(diamine) complexes: insights from a 3D-QSSR and DFT study. <b>2016</b> , 6, 4450-4457		21
314	Incorporation of spirobifluorene regioisomers in electron-donating molecular systems for organic solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 25952-25959	3.7	13
313	Rhodium-Catalyzed Enantioselective Cycloisomerization to Cyclohexenes Bearing Quaternary Carbon Centers. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3310-3	16.4	35
312	A synthesis of functionalized spiro isobenzofuran-1,6?-[1,3] thiazines from phthalic anhydride-malononitrile adduct and ammonium carbamodithioates. <b>2016</b> , 37, 54-60		9
311	Stereoselective synthesis of diazaspiro[5.5]undecane derivatives via base promoted [5+1] double Michael addition of N,N-dimethylbarbituric acid to diaryliedene acetones. <b>2017</b> , 10, 1-9		10
310	Copper-Catalyzed P-H Insertions of ⊞-Imino Carbenes for the Preparation of 3-Phosphinoylindoles. <i>Organic Letters</i> , <b>2017</b> , 19, 782-785	6.2	28
309	General Enantioselective C-H Activation with Efficiently Tunable Cyclopentadienyl Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2429-2434	16.4	223
308	Modular Assembly of Spirocarbocyclic Scaffolds through Pd -Catalyzed Intermolecular Dearomatizing [2+2+1] Annulation of Bromonaphthols with Aryl Iodides and Alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2767-2771	16.4	84

307	Modular Assembly of Spirocarbocyclic Scaffolds through Pd0-Catalyzed Intermolecular Dearomatizing [2+2+1] Annulation of Bromonaphthols with Aryl Iodides and Alkynes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2811-2815	3.6	25
306	General Enantioselective CH Activation with Efficiently Tunable Cyclopentadienyl Ligands. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2469-2474	3.6	109
305	Synthesis of chiral cyclic amines via Ir-catalyzed enantioselective hydrogenation of cyclic imines. <b>2017</b> , 15, 3006-3012		17
304	Rhenium-Catalyzed Construction of Polycyclic Hydrocarbon Frameworks by a Unique Cyclization of 1,n-Diynes Initiated by 1,1-Difunctionalization with Carbon Nucleophiles. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5862-5866	16.4	31
303	Kinetic resolution of racemic 2-substituted 1,2-dihydroquinolines asymmetric Cu-catalyzed borylation. <b>2017</b> , 8, 4558-4564		23
302	Enantioselective Fluorescent Imaging of Free Amino Acids in Living Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2432-2438	4.8	26
301	Lu's [3 + 2] cycloaddition of allenes with electrophiles: discovery, development and synthetic application. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 1876-1890	5.2	109
300	Palladium-catalyzed carbon-sulfur or carbon-phosphorus bond metathesis by reversible arylation. <b>2017</b> , 356, 1059-1063		120
299	Catalytic Asymmetric Construction of the Tryptanthrin Skeleton via an Enantioselective Decarboxylative [4 + 2] Cyclization. <i>Organic Letters</i> , <b>2017</b> , 19, 3219-3222	6.2	52
298	Synthesis of 9,9'-Spirobifluorenes and 4,5-Diaza-9,9'-spirobifluorenes and Their Application as Affinity Materials for Quartz Crystal Microbalances. <i>ChemPlusChem</i> , <b>2017</b> , 82, 758-769	2.8	3
297	Influence of Fluorene and Spirobifluorene Regioisomerism on the Structure, Organization, and Permeation Properties of Monolayers. <b>2017</b> , 121, 14228-14237		12
296	Synthesis of 6-Phosphorylated Phenanthridines by Mn(II)-Promoted Tandem Reactions of 2-Biaryl Isothiocyanates with Phosphine Oxides. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 7015-7022	4.2	30
295	Pd(0)-Catalyzed intramolecular arylative dearomatization of haphthols. 2017, 53, 7553-7556		38
294	Iridium-Catalyzed Asymmetric Hydrogenation of Unsaturated Carboxylic Acids. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 988-1001	24.3	123
293	Asymmetric Synthesis of Spiropyrazolones by Rhodium-Catalyzed C(sp2)⊞ Functionalization/Annulation Reactions. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4611-4615	3.6	55
292	Differentially Substituted Phosphines via Decarbonylation of Acylphosphines. <i>Organic Letters</i> , <b>2017</b> , 19, 1808-1811	6.2	36
291	StructureBroperty relationship of 4-substituted-spirobifluorenes as hosts for phosphorescent organic light emitting diodes: an overview. <b>2017</b> , 5, 3869-3897		67
290	Asymmetric Synthesis of Spiropyrazolones by Rhodium-Catalyzed C(sp )-H Functionalization/Annulation Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4540-454	4 <sup>16.4</sup>	130

289	Palladium-Catalyzed Asymmetric Allylic Allylation of Racemic MoritaBaylisBillman Adducts.  Angewandte Chemie, <b>2017</b> , 129, 1136-1139	6	10
288	Coordination of bis(azol-1-yl)methane-based bisphosphines towards Ru, Rh, Pd and Pt: synthesis, structural and catalytic studies. <b>2016</b> , 46, 227-241		14
287	Rh-Catalyzed Asymmetric Hydrogenation of 1,2-Dicyanoalkenes. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 680-687	2	11
286	Palladium-Catalyzed Asymmetric Allylic Allylation of Racemic Morita-Baylis-Hillman Adducts.  Angewandte Chemie - International Edition, <b>2017</b> , 56, 1116-1119	.4	47
285	Phosphinoyl Radical Initiated Vicinal Cyanophosphinoylation of Alkenes. Organic Letters, 2017, 19, 5537-65	<b>2</b> 40	45
284	Ligand-Substrate Dispersion Facilitates the Copper-Catalyzed Hydroamination of Unactivated Olefins. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16548-16555	.4	116
283	Phosphinoyl Radical-Initiated $\Box$ , Aminophosphinoylation of Alkenes. <i>Organic Letters</i> , <b>2017</b> , 19, 4704-4706.2	2	38
282	Diastereodivergent and Enantioselective Access to Spiroepoxides via Organocatalytic Epoxidation of Unsaturated Pyrazolones. <i>Organic Letters</i> , <b>2017</b> , 19, 5030-5033	2	32
281	Design and Synthesis of Spirocycles. <b>2017</b> , 2017, 5316-5342		59
280	Copper-Catalyzed Enantioselective Domino Arylation/Semipinacol Rearrangement of Allylic Alcohols with Diaryliodonium Salts. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13037-13041	3	39
279	Chiral ligands designed in China. <b>2017</b> , 4, 326-358		43
278	Enantioselective Direct Synthesis of Free Cyclic Amines via Intramolecular Reductive Amination.  Organic Letters, <b>2017</b> , 19, 4215-4218	2	29
277	Rhenium-Catalyzed Construction of Polycyclic Hydrocarbon Frameworks by a Unique Cyclization of 1,n-Diynes Initiated by 1,1-Difunctionalization with Carbon Nucleophiles. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5956-5960	5	9
276	A catalytic asymmetric construction of a tetrahydroquinoline-based spirooxindole framework via a diastereo- and enantioselective decarboxylative [4+2] cycloaddition. <b>2017</b> , 53, 10030-10033		73
275	Hydrogenation. <b>2017</b> , 621-690		4
274	Synthesis of spiro heterocyclic systems from 2-(3-oxoisobenzofuran-1(3H)-ylidene)malononitrile and binucleophiles. <b>2017</b> , 41, 330-332		1
273	Synthesis and application of a new hexamethyl-1,1'-spirobiindane-based chiral bisphosphine (HMSI-PHOS) ligand in asymmetric allylic alkylation. <b>2018</b> , 16, 2239-2247		9
272	Design, Synthesis, and Application of Chiral C -Symmetric Spiroketal-Containing Ligands in Transition-Metal Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5325-5329	.4	25

271	Design, Synthesis, and Application of Chiral C2-Symmetric Spiroketal-Containing Ligands in Transition-Metal Catalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5423-5427	3.6	3
270	Chiral Ion-Pair Organocatalyst-Promoted Efficient Enantio-selective Reduction of ⊞-Hydroxy Ketones. <b>2018</b> , 360, 1926-1931		1
269	Transition-metal-catalyzed cyclization reactions using vinyl and ethynyl benzoxazinones as dipole precursors. <b>2018</b> , 59, 1521-1530		76
268	Access to Spiroindolines and Spirodihydrobenzofurans via Pd-Catalyzed Domino Heck Spiroyclization through C-H Activation and Carbene Insertion. <i>Organic Letters</i> , <b>2018</b> , 20, 2728-2732	6.2	27
267	Synthesis of 1,1'-Spirobiindane-7,7'-Disulfonic Acid and Disulfonimide: Application for Catalytic Asymmetric Aminalization. <b>2018</b> , 13, 2378-2381		16
266	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. <b>2018</b> , 8, 2479-2487		49
265	Construction of Axially Chiral Compounds via Asymmetric Organocatalysis. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 534-547	24.3	355
264	Organophosphines-Catalyzed Cycloaddition Reactions. 2018, 141-236		1
263	Chiral proton-transfer shuttle catalysts for carbene insertion reactions. 2018, 16, 3087-3094		109
262	Synthesis and Application of Hexamethyl-1,1'-spirobiindane-Based Phosphine-Oxazoline Ligands in Ni-Catalyzed Asymmetric Arylation of Cyclic Aldimines. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 4034-40	4 <sup>4.2</sup>	27
261	Dynamic kinetic resolution of biaryl atropisomers by chiral dialkylaminopyridine catalysts. <b>2018</b> , 16, 31	21-312	612
260	Evolving Green Chemistry Metrics into Predictive Tools for Decision Making and Benchmarking Analytics. <b>2018</b> , 6, 1121-1132		26
259	Asymmetric Dearomative Halogenation of Naphthols: The Axial Chirality Transfer Reaction. <b>2018</b> , 360, 401-405		26
258	The effect of an acylphosphine ligand on the rhodium-catalyzed hydrosilylation of alkenes. <b>2018</b> , 855, 7-11		11
257	Synthesis of six-membered spirooxindoles a chiral Brfisted acid-catalyzed asymmetric intramolecular Friedel-Crafts reaction <i>RSC Advances</i> , <b>2018</b> , 8, 37035-37039	3.7	4
256	Asymmetric intramolecular Friedel <b>©</b> rafts reaction catalyzed by a spiropyrrolidine organocatalyst: Enantioselective construction of indolizine and azepine frameworks. <b>2018</b> , 59, 4015-4018		8
255	Ruthenium-Catalyzed Atropoenantioselective Synthesis of Axial Biaryls via Reductive Amination and Dynamic Kinetic Resolution. <i>Organic Letters</i> , <b>2018</b> , 20, 6284-6288	6.2	12
254	A facile approach to synthesize azaindoline functionalized spirocarbocyclic scaffolds via a Pd-catalyzed cascade cyclization/dearomatization process. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 3310-3	314	15

253	Cℍ Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14446-14450	3.6	35	
252	Atroposelective Catalytic Asymmetric Allylic Alkylation Reaction for Axially Chiral Anilides with Achiral Morita-Baylis-Hillman Carbonates. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12836-1	284 <del>3</del>	61	
251	Asymmetric Synthesis of Chiral Spiroketal Bisphosphine Ligands and Their Application in Enantioselective Olefin Hydrogenation. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 12838-12846	4.2	16	
250	C-H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14250-14254	16.4	66	
249	Development and application of chiral spirocyclic phosphoric acids in asymmetric catalysis. <b>2018</b> , 16, 4753-4777		76	
248	Visible-Light-Mediated Metal-Free Synthesis of Aryl Phosphonates: Synthetic and Mechanistic Investigations. <i>Organic Letters</i> , <b>2018</b> , 20, 4164-4167	6.2	41	
247	Phosphinoyl-functionalization of unactivated alkenes through phosphinoyl radical-triggered distal functional group migration. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 2370-2374	5.2	33	
246	Nickel-Catalyzed Asymmetric [2+2] Cycloaddition Reaction of Hetero-Bicyclic Alkenes with Internal Alkynes. <b>2018</b> , 13, 2431-2434		23	
245	A series of spirofluorene-based host materials for efficient phosphorescent organic light-emitting diodes. <b>2018</b> , 61, 70-77		10	
244	Non-Bonding Interactions Enable the Selective Formation of Branched Products in Palladium-Catalyzed Allylic Substitution Reactions. <b>2018</b> , 13, 2174-2183		25	
243	Chiral Cyclohexyl-Fused Spirobiindanes: Practical Synthesis, Ligand Development, and Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10374-10381	16.4	58	
242	Making Spiroketal-based Diphosphine (SKP) Ligands via a Catalytic Asymmetric Approach. <b>2018</b> , 36, 89	9-903	13	
241	Metal- and Base-Free Electrophilic Addition of 3-Diazooxindoles with H-phosphine Oxides for NP Bond Formation. <b>2018</b> , 42, 63-67		3	
240	Oxidant-free oxidation of CH bonds by cathodic hydrogen evolution: a phosphonic Kolbe oxidation/cyclization process. <b>2018</b> , 20, 3916-3920		23	
239	Toward a Predictive Understanding of Phosphine-Catalyzed [3 + 2] Annulation of Allenoates with Acrylate or Imine. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 9729-9740	4.2	15	
238	Synthesis and application of a new chiral monodentate spiro phosphoramidite ligand based on hexamethyl-1,1'-spirobiindane backbone in asymmetric hydroamination/arylation of alkenes. <b>2018</b> , 16, 6183-6186		5	
237	Highly Enantioselective Nickel-Catalyzed Intramolecular Hydroalkenylation of N- and O-Tethered 1,6-Dienes To Form Six-Membered Heterocycles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7458-7461	16.4	30	
236	Synthesis of electron-deficient (Sa,R,R)-(CF 3) 2-C 3-TunePhos and its applications in asymmetric hydrogenation of ∃-iminophosphonates. <b>2018</b> , 59, 2960-2964		7	

235	Design and Synthesis of Chiral oxa-Spirocyclic Ligands for Ir-Catalyzed Direct Asymmetric Reduction of Bringmann's Lactones with Molecular H. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8064-80	o 68·4	61
234	A Monophosphine Ligand Derived from Anthracene Photodimer: Synthetic Applications for Palladium-Catalyzed Coupling Reactions. <i>Organic Letters</i> , <b>2019</b> , 21, 8158-8163	6.2	12
233	Efficient Construction of Atropisomeric Arylamines through a Diastereoselective Buchwald-Hartwig Amination. <b>2019</b> , 8, 1846-1849		4
232	Stereoselective synthesis of medium lactams enabled by metal-free hydroalkoxylation/stereospecific [1,3]-rearrangement. <b>2019</b> , 10, 3234		71
231	Pd(0)-Catalyzed Cyclizative Phosphorylation of (Z)-1-Iodo-1,6-diene: Synthesis of Alkylphosphonate and Alkylthionophosphonate. <i>Organic Letters</i> , <b>2019</b> , 21, 5742-5746	6.2	9
230	Dynamic Kinetic Resolution of Axially Chiral Naphthamides via Atroposelective Allylic Alkylation Reaction. <i>Organic Letters</i> , <b>2019</b> , 21, 5495-5499	6.2	8
229	Synthesis of Diiodinated All-Carbon 3,3'-Diphenyl-1,1'-spirobiindene Derivatives via Cascade Enyne Cyclization and Electrophilic Aromatic Substitution. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 9282-9296	4.2	5
228	Lanthanum-Catalyzed Regioselective Anti-Markovnikov Hydrophosphinylation of Styrenes. <i>Organometallics</i> , <b>2019</b> , 38, 4261-4270	3.8	12
227	Cobalt(II)-Catalyzed Bisfunctionalization of Alkenes with Diarylphosphine Oxide and Peroxide. <b>2019</b> , 361, 5198-5209		6
226	Synthesis of Four Illudalane Sesquiterpenes Utilizing a One-Pot Diels-Alder/Oxidative Aromatization Sequence. <i>Organic Letters</i> , <b>2019</b> , 21, 6879-6883	6.2	9
225	Five complexes based on a new racemic tetraoxaspiro ligand: correlation of potential coordination preferences with the structure, magnetic properties and luminescence properties. <b>2019</b> , 48, 3862-3873		9
224	Innovation in protecting-group-free natural product synthesis. <b>2019</b> , 3, 85-107		34
223	Catalytic Enantioselective Construction of Spiro Quaternary Carbon Stereocenters. <b>2019</b> , 9, 1820-1882		148
222	Enantioselective Access to Axial Biaryls via Ruthenium-Catalyzed Hydrogen-Transfer Reductive Amination. <i>ChemistrySelect</i> , <b>2019</b> , 4, 1195-1198	1.8	2
221	An Atropo-enantioselective Synthesis of Benzo-Linked Axially Chiral Indoles via Hydrogen-Bond Catalysis. <i>Organic Letters</i> , <b>2019</b> , 21, 5219-5224	6.2	29
220	Highly Enantioselective Hydrogenation of NonSubstituted 2-Pyridyl Aryl Ketones via IridiumDiaphos Catalysis. <i>Organic Letters</i> , <b>2019</b> , 21, 5392-5396	6.2	18
219	Enhancing the dienic reactivity of phospholes: An access to chiral 7-phosphanorbornenes. <b>2019</b> , 194, 992-994		
218	Preparation and Application of Amino Phosphine Ligands Bearing Spiro[indane-1,2'-pyrrolidine] Backbone. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 9460-9473	4.2	3

217	Oxidation and chalcogenylative disproportionation of anionic phosphide ligands in yttrium complexes with elemental sulfur and selenium. <b>2019</b> , 48, 10596-10603		3
216	From Alkyl Halides to Ketones: Nickel-Catalyzed Reductive Carbonylation Utilizing Ethyl Chloroformate as the Carbonyl Source. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7532-7536	3.6	8
215	d-Fructose Based Spiro-Fused PHOX Ligands: Palladium Complexes and Application in Catalysis. <b>2019</b> , 2019, 3955-3963		4
214	Highly Enantioselective Synthesis of Chiral Benzhydrols via Manganese Catalyzed Asymmetric Hydrogenation of Unsymmetrical Benzophenones Using an Imidazole-Based Chiral PNN Tridentate Ligand. <i>Organic Letters</i> , <b>2019</b> , 21, 3937-3941	6.2	43
213	Rational design, enantioselective synthesis and catalytic applications of axially chiral EBINOLs. <b>2019</b> , 2, 504-513		71
212	Rh(III)-Catalyzed Asymmetric Synthesis of Axially Chiral Biindolyls by Merging C-H Activation and Nucleophilic Cyclization. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9527-9532	16.4	146
211	Construction of Acyclic Quaternary Carbon Stereocenters by Catalytic Asymmetric Hydroalkynylation of Unactivated Alkenes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9312-93	<del>16</del> .4	30
210	Highly Regio- and Enantioselective Dienylation of p-Quinone Methides Enabled by an Organocatalyzed Isomerization/Addition Cascade of Allenoates. <i>Organic Letters</i> , <b>2019</b> , 21, 3963-3967	6.2	28
209	Asymmetric Synthesis of P-Stereogenic Compounds via Thulium(III)-Catalyzed Desymmetrization of Dialkynylphosphine Oxides. <b>2019</b> , 9, 4834-4840		31
208	Catalysts for the asymmetric transfer hydrogenation of various ketones from [3-[(2S)-2-[(diphenylphosphanyl)oxy]-3-phenoxypropyl]-1-methyl-1H-imidazol-3-ium chloride] and [Ru([͡b-arene)(ECl)Cl]2, Ir([͡b-C5Me5)(ECl)Cl]2 or [Rh(ECl)(cod)]2. <b>2019</b> , 492, 108-118		4
207	Enantioselective Synthesis of Biaryl Atropisomers by Pd-Catalyzed CH Olefination using Chiral Spiro Phosphoric Acid Ligands. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6780-6784	3.6	44
206	Catalytic asymmetric synthesis of a new class of CyPHOX ligands. <b>2019</b> , 75, 3282-3291		1
205	Enantioselective Synthesis of Biaryl Atropisomers by Pd-Catalyzed C-H Olefination using Chiral Spiro Phosphoric Acid Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6708-6712	16.4	121
204	Metal-free construction of contiguous quaternary stereocentres with a polycyclic framework. <b>2019</b> , 55, 4631-4634		2
203	Palladium-catalyzed dearomative arylphosphorylation of indoles. <i>Organic Chemistry Frontiers</i> , <b>2019</b> , 6, 1577-1580	5.2	26
202	Lutidine-Based Chiral Pincer Manganese Catalysts for Enantioselective Hydrogenation of Ketones. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5027-5031	3.6	23
201	Access to P-chiral phosphine oxides by enantioselective allylic alkylation of bisphenols. <b>2019</b> , 10, 4322-4	327	24
200	Asymmetric N-Hydroxyalkylation of Indoles with Ethyl Glyoxalates Catalyzed by a Chiral Phosphoric Acid: Highly Enantioselective Synthesis of Chiral N,O-Aminal Indole Derivatives. <i>Organic Letters</i> , <b>2019</b> , 21, 2795-2799	6.2	15

199	Access to a Key Building Block for the Prostaglandin Family via Stereocontrolled Organocatalytic Baeyer Villiger Oxidation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10028-10032	3.6	5
198	Access to a Key Building Block for the Prostaglandin Family via Stereocontrolled Organocatalytic Baeyer-Villiger Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9923-9927	16.4	16
197	From Alkyl Halides to Ketones: Nickel-Catalyzed Reductive Carbonylation Utilizing Ethyl Chloroformate as the Carbonyl Source. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7454-7458	16.4	38
196	Asymmetric Barton ard Reaction To Access 3-Pyrrole-Containing Axially Chiral Skeletons. 2019, 9, 4374	-4381	79
195	Lutidine-Based Chiral Pincer Manganese Catalysts for Enantioselective Hydrogenation of Ketones. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4973-4977	16.4	94
194	Development of Chiral Spiro Phosphoramidites for Rhodium-Catalyzed Enantioselective Reactions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 9491-9497	4.8	6
193	Copper-Catalyzed Asymmetric Arylation of N-Heteroaryl Aldimines: Elementary Step of a 1,4-Insertion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2731-2735	3.6	2
192	Mechanisms of Ketone/Imine Hydrogenation Catalyzed by Transition-Metal Complexes. <b>2019</b> , 2, 292-31	2	15
191	Ru-Catalyzed Chemo- and Enantioselective Hydrogenation of 2,4-Pentadien-1-ones: Synthesis of Chiral 2,4-Pentadien-1-ols. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 16086-16094	4.2	2
190	Structural Diversity Ranging from Oligonuclear Complexes to 1-D and 2-D Coordination Polymers Generated by Tetrasubstituted Adamantane and Spirobifluorene Derivatives. <b>2019</b> , 2019, 5025-5038		0
189	Chiral Spiro Phosphoramide-Catalyzed Sulfa-Michael Addition/Enantioselective Protonation of Exocyclic Enones. <i>Organic Letters</i> , <b>2019</b> , 21, 9391-9395	6.2	19
188	Asymmetric synthesis of atropisomeric pyrazole via an enantioselective reaction of azonaphthalene with pyrazolone. <b>2019</b> , 55, 12715-12718		20
187	New generations of spirobifluorene regioisomers for organic electronics: tuning electronic properties with the substitution pattern. <b>2019</b> , 55, 14238-14254		49
186	Enantioselective Synthesis of 3,3'-Diaryl-SPINOLs: Rhodium-Catalyzed Asymmetric Arylation/BF -Promoted Spirocyclization Sequence. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2474-2478	16.4	25
185	Access to All-Carbon Spirocycles through a Carbene and Thiourea Cocatalytic Desymmetrization Cascade Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1798-1802	3.6	10
184	Copper-Catalysed Double O-Arylation for Enantioselective Synthesis of oxa-Spirocycles. <b>2019</b> , 361, 562-	·568	6
183	Access to All-Carbon Spirocycles through a Carbene and Thiourea Cocatalytic Desymmetrization Cascade Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1784-1788	16.4	35
182	Enantioselective Synthesis of 3,3?-Diaryl-SPINOLs: Rhodium-Catalyzed Asymmetric Arylation/BF3-Promoted Spirocyclization Sequence. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2496-2500	3.6	7

181	NHC-Catalyzed Kinetic Resolution, Desymmetrization, and DKR Strategies. 2019, 287-308		2
180	Copper-Catalyzed Asymmetric Arylation of N-Heteroaryl Aldimines: Elementary Step of a 1,4-Insertion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2705-2709	16.4	7
179	Ir-Catalyzed Atroposelective Desymmetrization of Heterobiaryls: Hydroarylation of Vinyl Ethers and Bicycloalkenes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2628-2639	16.4	65
178	Synthesis of Axially Chiral Biaryl-2-amines by Pd -Catalyzed Free-Amine-Directed Atroposelective C-H Olefination. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3568-3572	16.4	71
177	Enantioselective transfer hydrogenation of pro-chiral ketones catalyzed by novel ruthenium and iridium complexes of well-designed phosphinite ligand. <b>2020</b> , 195, 628-637		О
176	Quantitative Structure-Selectivity Relationships in Enantioselective Catalysis: Past, Present, and Future. <b>2020</b> , 120, 1620-1689		62
175	Enantioselective assembly of multi-layer chirality. <b>2020</b> , 7, 588-599		23
174	Polyketide Cyclizations for the Synthesis of Polyaromatics. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 7039-7047	3.6	4
173	Enantioselective synthesis of -chiral tertiary phosphine oxides with an ethynyl group Cu(i)-catalyzed azide-alkyne cycloaddition. <b>2020</b> , 11, 97-106		25
172	Polyketide Cyclizations for the Synthesis of Polyaromatics. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6975-6983	16.4	9
172 171		16.4	9
	Edition, 2020, 59, 6975-6983  One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under	16.4 5.2	
171	Edition, 2020, 59, 6975-6983  One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under Mild Conditions. 2020, 5, 18273-18288  Chiral phosphoric acid catalyzed atroposelective and diastereoselective synthesis of		4
171 170	One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under Mild Conditions. 2020, 5, 18273-18288  Chiral phosphoric acid catalyzed atroposelective and diastereoselective synthesis of 9-aryltetrahydroacridines. Organic Chemistry Frontiers, 2020, 7, 2255-2262  Desymmetrization of Cyclopentene-1,3-Diones via Alkylation, Arylation, Amidation and	5.2	<ul><li>4</li><li>5</li><li>9</li></ul>
171 170 169	One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under Mild Conditions. 2020, 5, 18273-18288  Chiral phosphoric acid catalyzed atroposelective and diastereoselective synthesis of 9-aryltetrahydroacridines. Organic Chemistry Frontiers, 2020, 7, 2255-2262  Desymmetrization of Cyclopentene-1,3-Diones via Alkylation, Arylation, Amidation and Cycloaddition Reactions. ChemistrySelect, 2020, 5, 14484-14509	5.2	<ul><li>4</li><li>5</li><li>9</li></ul>
171 170 169	One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under Mild Conditions. 2020, 5, 18273-18288  Chiral phosphoric acid catalyzed atroposelective and diastereoselective synthesis of 9-aryltetrahydroacridines. Organic Chemistry Frontiers, 2020, 7, 2255-2262  Desymmetrization of Cyclopentene-1,3-Diones via Alkylation, Arylation, Amidation and Cycloaddition Reactions. ChemistrySelect, 2020, 5, 14484-14509  Development of Immobilized SPINOL-Derived Chiral Phosphoric Acids for Catalytic Continuous Flow Processes. Use in the Catalytic Desymmetrization of 3,3-Disubstituted Oxetanes. 2020, 10, 14971-Synthesis of Axially Chiral Olefin-Oxazoline Ligands via Pd-Catalyzed Multiple C-H	5.2 1.8	4 5 9 8
171 170 169 168	One-Pot Synthesis of Spiro-isobenzofuran Compounds the Sequential Condensation/Oxidation Reaction of Ninhydrin with 4-Amino-1,2-naphthoquinones/2-Amino-1,4-naphthoquinones under Mild Conditions. 2020, 5, 18273-18288  Chiral phosphoric acid catalyzed atroposelective and diastereoselective synthesis of 9-aryltetrahydroacridines. Organic Chemistry Frontiers, 2020, 7, 2255-2262  Desymmetrization of Cyclopentene-1,3-Diones via Alkylation, Arylation, Amidation and Cycloaddition Reactions. ChemistrySelect, 2020, 5, 14484-14509  Development of Immobilized SPINOL-Derived Chiral Phosphoric Acids for Catalytic Continuous Flow Processes. Use in the Catalytic Desymmetrization of 3,3-Disubstituted Oxetanes. 2020, 10, 14971-Synthesis of Axially Chiral Olefin-Oxazoline Ligands via Pd-Catalyzed Multiple C-H Functionalization. Organic Letters, 2020, 22, 9169-9173  Biaryl diphosphine ligands and their ruthenium complexes: Preparation and use for catalytic	5.2 1.8	4 5 9 8 3

163	Double Hydrophosphorylation of Nitriles Catalyzed by Rare-Earth-Metal Lanthanum. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 14720-14729	4.2	О
162	Palladium-Catalyzed Directed Atroposelective C-H Allylation via & Elimination: 1,1-Disubstituted Alkenes as Allyl Surrogates. <i>Organic Letters</i> , <b>2020</b> , 22, 9693-9698	6.2	18
161	Construction of Alkenyl-Functionalized Spirocarbocyclic Scaffolds from Alkyne-Containing Phenol-Based Biaryls via Sequential Iodine-Induced Cyclization/Dearomatization and Pd-Catalyzed Coupling of N-Tosylhydrazones. <b>2020</b> , 38, 1257-1262		6
160	Transient-axial-chirality controlled asymmetric rhodium-carbene C(sp)-H functionalization for the synthesis of chiral fluorenes. <b>2020</b> , 11, 2363		21
159	Asymmetric Reactions Catalyzed by Chiral Tertiary Phosphines. <b>2020</b> , 38, 1395-1421		14
158	Exploration of chiral diastereomeric spiroketal (SPIROL)-based phosphinite ligands in asymmetric hydrogenation of heterocycles. <b>2020</b> , 56, 8432-8435		10
157	Tandem approach to NOBIN analogues from arylhydroxylamines and diaryliodonium salts via [3,3]-sigmatropic rearrangement. <b>2020</b> , 56, 8226-8229		14
156	Palladium-catalyzed C(sp3) <b>P</b> (III) bond formation reaction with acylphosphines as phosphorus source. <b>2020</b> , 61, 152125		3
155	Catalytic Asymmetric [4 + 2] Cycloaddition of -Alkenyl Naphthols/Phenols with -Quinone Methides: Highly Stereoselective Synthesis of Chiral 2,3,4-Trisubstituted Chromans. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 5231-5244	4.2	11
154	Visible Light Induced Cyclization to Spirobi[indene] Skeletons from Functionalized Alkylidienecyclopropanes. <i>Organic Letters</i> , <b>2020</b> , 22, 2494-2499	6.2	9
153	Development of a -Symmetric Chiral Spirocyclic Diol. <i>Organic Letters</i> , <b>2020</b> , 22, 3110-3113	6.2	5
152	Photocatalytic Difunctionalization of Vinyl Ureas by Radical Addition Polar Truce-Smiles Rearrangement Cascades. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11600-11606	16.4	24
151	Optically Active 10,10?-Spirobi[10H-phenoxasilin]-1,1?-diol: Synthesis, Structure, and Application of its Phosphoramidite Derivative to Palladium-catalyzed Asymmetric Allylic Amination. <b>2020</b> , 49, 550-552		1
150	Asymmetric Synthesis and Application of Chiral Spirosilabiindanes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 902	2 <sub>3</sub> 96025	7
149	Asymmetric Synthesis and Application of Chiral Spirosilabiindanes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8937-8940	16.4	24
148	Enantioselective Type II Cycloaddition of Alkynes via C-C Activation of Cyclobutanones: Rapid and Asymmetric Construction of [3.3.1] Bridged Bicycles. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 13180-13189	16.4	19
147	A Simple Strategy for the Preparation of P-Chirogenic Trost Ligands with Different Absolute Configurations. <b>2020</b> , 2020, 5003-5008		3
146	Organocatalytic asymmetric N-sulfonyl amide C-N bond activation to access axially chiral biaryl amino acids. <b>2020</b> , 11, 946		37

145	Access to Chiral Bisphenol Ligands (BPOL) through Desymmetrizing Asymmetric Ortho-Selective Halogenation. <b>2020</b> , 6, 919-932		13	
144	[4 + 1] annulation reaction of cyclic pyridinium ylides with in situ generated azoalkenes for the construction of spirocyclic skeletons. <b>2020</b> , 18, 1886-1891		13	
143	Rhodium(III)-Catalyzed Asymmetric Access to Spirocycles through CH Activation and Axial-to-Central Chirality Transfer. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 7255-7259	3.6	16	
142	Cu(i)-Catalyzed asymmetric intramolecular addition of aryl pinacolboronic esters to unactivated ketones: enantioselective synthesis of 2,3-dihydrobenzofuran-3-ol derivatives. <b>2020</b> , 56, 2654-2657		8	
141	Palladium Complexes Bearing Chiral bis(NHC) Chelating Ligands on a Spiro Scaffold: Synthesis, Characterization, and Their Application in the Oxidative Kinetic Resolution of Secondary Alcohols. <i>Organometallics</i> , <b>2020</b> , 39, 605-613	3.8	3	
140	Continuous Flow Preparation of Enantiomerically Pure BINOL(s) by Acylative Kinetic Resolution. <b>2020</b> , 362, 1370-1377		9	
139	Synthesis of Axially Chiral Biaryl-2-amines by PdII-Catalyzed Free-Amine-Directed Atroposelective CH Olefination. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3596-3600	3.6	26	
138	Catalyst-Controlled Chemodivergent Synthesis of Spirochromans from Diarylideneacetones and Organoboronic Acids. <b>2020</b> , 10, 2596-2602		4	
137	Palladium-Catalyzed Cascade Cyclization/Dearomatization/Arylation of Alkyne-Containing Phenol-Based Biaryls with Aryl Halides: An Entry to Diversely Functionalized Spirocyclohexadienones. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 6687-6696	4.2	8	
136	Photocatalytic Difunctionalization of Vinyl Ureas by Radical Addition Polar Truce <b>S</b> miles Rearrangement Cascades. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11697-11703	3.6	15	
135	Multi-layer 3D chirality: new synthesis, AIE and computational studies. <i>Science China Chemistry</i> , <b>2020</b> , 63, 692-698	7.9	14	
134	New chiral ferrocene/indole-based diphosphine ligands for Rh-catalyzed asymmetric hydrogenation of functionalized olefins. <b>2020</b> , 61, 151860		3	
133	Highly Enantioselective Construction of Fully Substituted Stereocenters Enabled by In Situ Phosphonium-Containing Organocatalysis. <b>2020</b> , 10, 5698-5706		18	
132	Chiral Catalysts for Pd -Catalyzed Enantioselective C-H Activation. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 1231-1257	4.8	25	
131	Chiral Spirocyclic Phosphoric Acids and Their Growing Applications. <b>2021</b> , 39, 802-824		13	
130	Enantioselective Total Synthesis of Pentacyclic Proaporphine Alkaloid ([]-Misramine. 2021, 363, 785-790	)	О	
129	A one-pot stepwise approach to axially chiral quinoline-3-carbaldehydes enabled by iminium llenamine cascade catalysis. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 605-612	5.2	10	
128	Metal-Catalyzed Asymmetric Hydrogenation of C?N Bonds. <b>2021</b> , 11, 215-247		25	

127	Design, synthesis, molecular docking, anti-proliferative and anti-TB studies of 2H-chromen-8-azaspiro[4.5]decane-7,9-dione conjugates. <b>2021</b> , 1227, 129530		2
126	Chiral and robust Zr(IV)-based metal-organic frameworks built from spiro skeletons. <b>2021</b> , 231, 168-180		1
125	Recent progress on the construction of axial chirality through transition-metal-catalyzed benzannulation. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 2772-2785	5.2	8
124	Recent quinone diazide based transformations via metalBarbene formation. <i>New Journal of Chemistry</i> ,	3.6	6
123	Rhodium(iii)-catalyzed asymmetric [4+1] spiroannulations of O-pivaloyl oximes with ⊞-diazo compounds. <b>2021</b> , 57, 8268-8271		6
122	Phosphorus Ligands. <b>2021</b> , 32-59		1
121	Enantioselective synthesis of polycyclic pyrrole derivatives by iridium-catalyzed asymmetric allylic dearomatization and ring-expansive migration reactions. <b>2021</b> , 57, 5390-5393		1
120	Y(OTf)-catalyzed phosphorylation of 2H-chromene hemiacetals with P(O)-H compounds to 2-phosphorylated 2H-chromenes. <b>2021</b> , 19, 6812-6816		1
119	A Type of Structurally Adaptable Aromatic Spiroketal Based Chiral Diphosphine Ligands in Asymmetric Catalysis. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 668-684	24.3	20
118	Asymmetric hydrogenation catalyzed by first-row transition metal complexes. <b>2021</b> , 50, 3211-3237		53
117	Palladium-catalyzed CP bond activation of aroyl phosphine oxides without the adjacent Enchoring atom[]2021, 81, 131912		1
116	Ruthenium-Catalyzed P-Directed Remote C-H Alkylation of Phosphines. <i>Organic Letters</i> , <b>2021</b> , 23, 2052	- <b>Ø</b> <u>0</u> 56	8
115	Chiral Spiro-Axis Induced Blue Thermally Activated Delayed Fluorescence Material for Efficient Circularly Polarized OLEDs with Low Efficiency Roll-Off. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8516-8521	3.6	6
114	Development of -Symmetric Chiral Spirocyclic Phase-Transfer Catalysts: Synthesis and Application to Asymmetric Alkylation of Glycinate Schiff Base. <i>Organic Letters</i> , <b>2021</b> , 23, 2890-2894	6.2	2
113	Chiral Spiro-Axis Induced Blue Thermally Activated Delayed Fluorescence Material for Efficient Circularly Polarized OLEDs with Low Efficiency Roll-Off. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8435-8440	16.4	39
112	Relay Cu(I)/Brfisted Base Catalysis for Phospha-Michael Addition/5-exo-dig Cyclization/Isomerization of in situ Formed aza-Alkynyl o-quinone methides with P(O)H compounds to C3-Phosphorylated Indoles. <b>2021</b> , 363, 3006-3012		3
111	Ruthenium-Catalyzed Enantioselective Propargylic Phosphinylation of Propargylic Alcohols with Phosphine Oxides. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11231-11236	16.4	14
110	Catalytic Asymmetric Hydrogenation of 3-Ethoxycarbonyl Quinolin-2-ones and Coumarins. <i>Organic Letters</i> , <b>2021</b> , 23, 3593-3598	6.2	5

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108	Ruthenium-Catalyzed Enantioselective Propargylic Phosphinylation of Propargylic Alcohols with Phosphine Oxides. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11331-11336	3.6	6
107	Nickel-Catalyzed Desymmetrizing Cyclization of 1,6-Dienes to Construct Quaternary Stereocenters. <i>Organic Letters</i> , <b>2021</b> , 23, 3814-3817	6.2	2
106	Chiral Tridentate Ligands in Transition Metal-Catalyzed Asymmetric Hydrogenation. <b>2021</b> , 121, 7530-75	567	25
105	SCpRh(III)-Catalyzed Enantioselective Aryl CH Addition to Nitroalkenes. 2021, 10, 1722-1725		2
104	Green Chemistry Meets Asymmetric Organocatalysis: A Critical Overview on Catalysts Synthesis. <b>2021</b> , 14, 2785-2853		19
103	Dearomative spirocyclization via visible-light-induced reductive hydroarylation of non-activated arenes. <b>2021</b> , 6417		1
102	Palladium-Catalyzed C-P(III) Bond Formation by Coupling ArBr/ArOTf with Acylphosphines. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 8987-8996	4.2	1
101	Chiral Dirhodium Tetraphosphate-Catalyzed Enantioselective Si-H Bond Insertion of $\Box$ -Aryldiazoacetates. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 9692-9698	4.2	О
100	Amino Acid Derived Chiral Aminobenzimidazole Manganese Catalysts for Asymmetric Transfer Hydrogenation of Ketones. <b>2021</b> , 11, 8033-8041		6
99	Dynamic Kinetic Resolution of Eubstituted Cyclic Ketoesters via Asymmetric Hydrogenation: Constructing Chiral Cyclic Hydroxyesters with Three Contiguous Stereocenters. <i>Organic Letters</i> , <b>2021</b> , 23, 5153-5157	6.2	2
98	Palladium-Catalyzed Desymmetric Intermolecular C-N Coupling Enabled by a Chiral Monophosphine Ligand Derived from Anthracene Photodimer. <i>Organic Letters</i> , <b>2021</b> , 23, 5485-5490	6.2	2
97	Recent Advances in Catalytic Atroposelective Construction of Pentatomic Heterobiaryl Scaffolds. <b>2021</b> , 13, 3547-3564		5
96	Nitrogen-Radical-Triggered Trifunctionalizing ipso-Spirocyclization of Unactivated Alkenes with Vinyl Azides: A Modular Access to Spiroaminal Frameworks. <b>2021</b> , 363, 3762-3768		1
95	Enantioselective Synthesis of Chiral Phosphonates via Rh/f-spiroPhos Catalyzed Asymmetric Hydrogenation of moisubstituted Unsaturated Phosphonates. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 12034-12045	4.2	0
94	SPHENOL, A New Chiral Framework for Asymmetric Synthesis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12445-12449	16.4	7
93	Introduction and Characteristics. <b>2021</b> , 1-12		
92	Asymmetric hydrogenation of Ebranched allylamines for the efficient synthesis of Ethirogenic amines. e10021		1

91	Asymmetric synthesis of atropisomers enabled by N-heterocyclic carbene catalysis. <b>2021</b> , 100, 132456		4
90	Synthesis and Evaluation of C2-Symmetric SPIROL-Based bis-Oxazoline Ligands. <b>2021</b> , 13, 1667		
89	Recent Progress toward the Construction of Axially Chiral Molecules Catalyzed by an N-heterocyclic Carbene. 12520-12531		17
88	Ronald C.D. Breslow (1931-2017): A career in review. <b>2021</b> , 115, 104868		O
87	Evolution in heterodonor P-N, P-S and P-O chiral ligands for preparing efficient catalysts for asymmetric catalysis. From design to applications. <b>2021</b> , 446, 214120		8
86	Palladium-catalyzed intramolecular diastereoselective dearomatization reaction of indoles with N-tosylhydrazones. <i>Organic Chemistry Frontiers</i> ,	5.2	1
85	Rhodium(III)-Catalyzed Asymmetric Access to Spirocycles through C-H Activation and Axial-to-Central Chirality Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7188-7192	16.4	48
84	Transition Metal-Catalyzed Asymmetric Allylation. <b>2011</b> , 247-285		14
83	Construction of Spiro Skeletons in 2,2',3,3'-Tetrahydro-1,1'- spirobi[1H-indene]-7,7'-diol (SPINOL) and Analogues. <b>2021</b> , 41, 3400		
82	Asymmetric cycloisomerization/[3 + 2] cycloaddition for the synthesis of chiral spiroisobenzofuran-1,3?-pyrrolidine derivatives. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 6874-6880	5.2	O
81	Recent Advances in the Enantioselective Synthesis of Chiral Amines via Transition Metal-Catalyzed Asymmetric Hydrogenation. <b>2021</b> ,		21
80	CHAPTER 13. Recent Advances in Asymmetric Catalysis by Chiral Phosphines. <b>2020</b> , 348-403		
79	Palladium-Catalyzed Cascade Allylative Dicarbofunctionalization of Aryl Phenol-Tethered Alkynes with Allyl Iodides: Synthesis of Skipped Dienes. <i>Organic Letters</i> , <b>2021</b> , 23, 8333-8337	6.2	2
78	Organocatalytic cycloaddition-elimination cascade for atroposelective construction of heterobiaryls. <b>2021</b> , 12, 14920-14926		11
77	Precious metal complexes of bis(pyridyl)allenes: synthesis and catalytic and medicinal applications. <b>2021</b> , 50, 16739-16750		O
76	ShiP.		
75	SIPHOS, siphos.		
74	spirobifluorene diphosphine.		

73	P-chirogenic Trost ligands mediated asymmetric hydrogenation of simple ketones. <b>2020</b> , 61, 152386-15	2386	О
72	Concise synthesis and applications of enantiopure spirobiphenoxasilin-diol and its related chiral ligands. <b>2021</b> , 57, 13365-13368		O
71	Recent advances in the asymmetric phosphoric acid-catalyzed synthesis of axially chiral compounds. <b>2021</b> , 17, 2729-2764		3
70	Hydrogen Bond Assisted Central-to-Spiro Chirality Transfer and Central-to-Axial Chirality Conversion: Asymmetric Synthesis of Spirocycles. <i>Organic Letters</i> , <b>2021</b> , 23, 9315-9320	6.2	2
69	Rational Design of Axially Chiral Styrene-Based Organocatalysts and Their Application in Catalytic Asymmetric (2+4) Cyclizations. <i>Angewandte Chemie</i> , e202112226	3.6	
68	Rational Design of Axially Chiral Styrene-Based Organocatalysts and Their Application in Catalytic Asymmetric (2+4) Cyclizations. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , e202112226	16.4	7
67	Accessing Medicinally Relevant O -Benzofused Heterocycles through C $\! \mathbf{K} \!$ Activation: Recent Trends.		0
66	Construction of axially chiral styrene-type allylamines via chiral phosphoric acid-catalyzed asymmetric reductive amination. <i>Organic Chemistry Frontiers</i> , <b>2022</b> , 9, 764-770	5.2	1
65	Mechanistically Guided One Pot Synthesis of Phosphine-Phosphite and Its Implication in Asymmetric Hydrogenation. <b>2022</b> , 2022,		0
64	Asymmetric synthesis of N-N axially chiral compounds organocatalytic atroposelective -acylation <b>2021</b> , 13, 141-148		9
63	Asymmetric Hydrosilylation of	4.2	2
62	Total Synthesis of (⊞)-Spiroaxillarone A via a Reversible Sulfa-Michael Addition <i>Organic Letters</i> , <b>2022</b> ,	6.2	O
61	Rh(III)-Catalyzed C-H bond activation/annulation reactions of arylacyl ammonium salts with 4-diazoisochroman-3-imines and 4-diazoisoquinolin-3-ones <b>2022</b> ,		1
60	Leveraging Chiral Zr(IV)-Based Metal-Organic Frameworks To Elucidate Catalytically Active Rh Species in Asymmetric Hydrogenation Reactions <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	2
59	Synthesis of spiropyrans the Rh(III)-catalyzed annulation of 3-aryl-2-benzo[[1,4]oxazines with diazo ketoesters <b>2022</b> ,		1
58	The Co(ii)/spiroBox-catalyzed enantioselective Mukaiyama-Mannich reaction for the synthesis of quaternary ∃-amino acid derivatives. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 6121-6125	3.6	O
57	Guest-Driven Self-Assembly and Chiral Induction of Photofunctional Lanthanide Tetrahedral Cages <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	14
56	Locking the Spiro Carbon in Spirobisindane Using Sulfur and Phosphorus to Form "Olympic Ring"-like Molecules <i>Journal of Organic Chemistry</i> , <b>2022</b> ,	4.2	

55	Palladium-Catalyzed Intramolecular Diarylation of 1,3-Diketone in Total Synthesis of (日)-Spiroaxillarone A <i>Organic Letters</i> , <b>2022</b> ,	6.2	1
54	Copper-Catalyzed Dynamic Kinetic C-P Cross-Coupling/ Cyclization for Concise Asymmetric Synthesis of Six-, Seven- and Eight-Membered P-Stereogenic Phosphorus Heterocycles <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	4
53	Chiral Phosphoric Acid-Catalyzed Asymmetric Arylation of Indolizines: Atroposelective Access to Axially Chiral 3-Arylindolizines <i>Organic Letters</i> , <b>2022</b> ,	6.2	1
52	Iridium-Catalyzed Regiodivergent and Enantioselective Hydroalkynylation of Unactivated 1,1-Disubstituted Alkenes <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	O
51	Organocatalytic dynamic kinetic resolution of N-arylindole lactams: atroposelective construction of axially chiral amino acids bearing a C-N chiral axis. <i>Science China Chemistry</i> , 1	7.9	1
50	Iridium-Catalyzed Regiodivergent and Enantioselective Hydroalkynylation of Unactivated 1,1-Disubstituted Alkenes. <i>Angewandte Chemie</i> ,	3.6	
49	ON/OFF Spiroconjugation through Peripheral Functionalization: Impact on the Reactivity and Chiroptical Properties of Spirobifluorenes <i>ChemPlusChem</i> , <b>2022</b> , e202100554	2.8	О
48	Copper-Catalyzed Dynamic Kinetic CP Cross-Coupling/Cyclization for Concise Asymmetric Synthesis of Six-, Seven- and Eight-Membered P-Stereogenic Phosphorus Heterocycles.  Angewandte Chemie,	3.6	
47	Electrophilic Spirocyclization of a 2-Biphenylacetylene via Conformational Fixing within a Hollow-Cage Host <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	O
46	Circularly Polarized White Organic Light-Emitting Diodes Based on Spiro-Type Thermally Activated Delayed Fluorescence Materials. <i>Angewandte Chemie</i> ,	3.6	
45	Electrophilic Spirocyclization of a 2-Biphenylacetylene via Conformational Fixing within a Hollow-Cage Host. <i>Angewandte Chemie</i> ,	3.6	1
44	Circularly Polarized White Organic Light-Emitting Diodes Based on Spiro-type Thermally Activated Delayed Fluorescence Materials <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	1
43	Synthesis of Spirocyclic Cyclobutenes through Desulfinative Spirocyclisation of gem-Bis(triflyl)cyclobutenes <i>Chemistry - A European Journal</i> , <b>2022</b> ,	4.8	
42	Homogeneous and Heterogeneous Pd-Catalyzed Selective C-P Activation and Transfer Hydrogenation for "Group-Substitution" Synthesis of Trivalent Phosphines <i>Organic Letters</i> , <b>2022</b> ,	6.2	O
41	Recent Advances in Catalytic Alkyne Transformation via Copper Carbene Intermediates. <i>Molecules</i> , <b>2022</b> , 27, 3088	4.8	1
40	Enantioselective Synthesis of Atropisomeric Biaryl Phosphorus Compounds by Chiral Phosphonium-Salt-Enabled Cascade Arene Formation. <i>Angewandte Chemie</i> ,	3.6	
39	Enantioselective Synthesis of Atropisomeric Biaryl Phosphorus Compounds by Chiral Phosphonium-Salt-Enabled Cascade Arene Formation <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	1
38	Modular synthesis of diphosphoramidite ligands derived from 1,8,10,9-triazaboradecalin and their complexes with Ni, Pd, and Pt. <i>Polyhedron</i> , <b>2022</b> , 221, 115877	2.7	1

37	Theoretical Study of Rhodium-Catalyzed Dual CH Activation to Synthesize CN Axially Chiral N-Aryloxindoles: Origin of Axial Chirality. <i>Organometallics</i> ,	3.8	
36	Asymmetric 1,3-dipolar cycloaddition of 4-aminopyrazolone-based azomethine ylides: a straightforward approach to spiropyrazolones. <i>Organic Chemistry Frontiers</i> ,	5.2	
35	Diastereoselective Synthesis of Amide-Bridged Axially Chiral Biaryls through Point-to-Axial Asymmetric C-H Arylation. <i>Heterocycles</i> , <b>2022</b> , 104, 1026	0.8	
34	Ruthenium-catalyzed asymmetric hydrogenation of aromatic and heteroaromatic ketones using cinchona alkaloid-derived NNP ligands. <i>RSC Advances</i> , <b>2022</b> , 12, 14912-14916	3.7	O
33	Efficient circularly polarized photoluminescence and electroluminescence of chiral spiro-skeleton based thermally activated delayed fluorescence molecules. <i>Science China Chemistry</i> ,	7.9	1
32	ASYMMETRIC NUCLEOPHILIC ADDITION TO KETONES AND KETIMINES AND CONJUGATE ADDITION REACTIONS. <b>2022</b> , 617-659		
31	Chiral oxamidephosphinepalladium catalyzed highly asymmetric allylic amination: carbonyl assistance for high regio- and enantiocontrols. <i>Organic Chemistry Frontiers</i> ,	5.2	1
30	Recent Advances in the Synthesis of 5-Membered N -Heterocycles via Rhodium Catalysed Cascade Reactions. <i>ChemistrySelect</i> , <b>2022</b> , 7,	1.8	3
29	The mechanism of formation of 3-substituted phospholanes in the reaction of alumolanes with PhPCl2. <i>Russian Chemical Bulletin</i> , <b>2022</b> , 71, 1143-1150	1.7	
28	Catalytic Asymmetric Axially Chiral Allenyl CP Bond Formation. <i>Journal of the American Chemical Society</i> ,	16.4	2
27	Activation of CS2 with the 2H-Phosphindole Complex to Construct P,S-Polycycles. <i>Organic Letters</i> ,	6.2	1
26	Manganese-catalyzed asymmetric transfer hydrogenation of hydrazones. <i>Journal of Catalysis</i> , <b>2022</b> , 413, 487-497	7.3	O
25	Construction of axial chirality by asymmetric alpha CH alkenylation of aryl alkenes.		0
24	Indane-Based Chiral Aryl Chalcogenide Catalysts: Development and Applications in Asymmetric Electrophilic Reactions.		3
23	Cu-Catalyzed synthesis of spiroimidazole derivatives via an indolyl mediated cyclizationEearrangement reaction.		0
22	10 Gram-scale synthesis of TY-Phos ligand and its application in carbene insertion of Si-H bonds. <b>2022</b> , 107, 154120		O
21	Palladium-catalyzed asymmetric hydrophosphination of internal alkynes: Atroposelective access to phosphine-functionalized olefins. <b>2022</b> ,		2
20	Enantioselective Synthesis of Spirosilabicyclohexenes by Asymmetric Dual Ring Expansion of Spirosilabicyclobutane with Alkynes.		1

19	Enantioselective Synthesis of Spirosilabicyclohexenes by Asymmetric Dual Ring Expansion of Spirosilabicyclobutane with Alkynes.	0
18	Asymmetric transfer hydrogenation of quinoline derivatives catalyzed by chiral iridium-imidazoline complex in water. <b>2022</b> , 532, 112715	0
17	Development of spirocyclic phosphoramidite-based hybrid diphosphorus ligands for enantioselective iridium-catalyzed hydrogenation of imines.	0
16	New tertiary amine-derived C2-symmetric chiral pyridine-N,N'-dioxide ligands and their applications in asymmetric catalysis.	O
15	Exploring Molecular Complexity by N-Heterocyclic Carbene Organocatalysis: New Activation and Reaction Diversity.	1
14	Theoretical evaluation of spirocyclic compounds as green corrosion inhibitors for carbon steel. <b>2022</b> , 139658	O
13	Diastereodivergent cis- and trans-fused [4+2] annulations of cyclic 1,3-dienes and 1-azadienes via ligand-controlled palladium catalysis.	0
12	Highly Efficient Asymmetric Hydrogenation Catalyzed by Iridium Complexes with Tridentate Chiral Spiro Aminophosphine Ligands. <b>2023</b> , 56, 332-349	O
11	Ni-Catalyzed Asymmetric Hydrogenation of ⊞-Substituted ⊞,∰Unsaturated Phosphine Oxides/Phosphonates/Phosphoric Acids. <b>2023</b> , 25, 738-743	0
10	Synthesis of P-stereogenic cyclicphosphinic amide via electrochemical enabled cobalt-catalyzed enantioselective CH annulation.	O
9	Atroposelective Synthesis of Heterobiaryls through Ring Formation.	0
8	Csp 3 <b>P</b> III Bond Formation via Cross-Coupling of Umpolung Carbonyls with Phosphine Halides Catalyzed by Nickel.	0
7	Csp 3 <b>P</b> III Bond Formation via Cross-Coupling of Umpolung Carbonyls with Phosphine Halides Catalyzed by Nickel.	0
6	Cu(ii)-catalyzed domino construction of spironaphthalenones by dearomatization of 即aphthols and using N,N-dimethylaminoethanol as a C1 synthon. <b>2023</b> , 21, 3101-3104	O
5	Chiral spirosiladiphosphines: ligand development and applications in Rh-catalyzed asymmetric hydrosilylation/cyclization of 1,6-enynes with enhanced reactivity.	0
4	Transition Metal-Catalyzed Cℍ Functionalization of Benzofused Azoles with Two or More Heteroatoms. <b>2023</b> , 319-356	O
3	Rh(III)-catalyzed cascade annulation of 4-diazoisoquinolin-3-ones with benzoic acids to access spiro[isobenzofuran-1,4?-isoquinoline]-3,3?-diones. <b>2023</b> , 137, 133392	О
2	(NHC)Ni(II)-Directed Insertions and Higher Substituted Olefin Synthesis from Simple Olefins.	O

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