

GÃ¼nter Helmchen

List of Publications by Year in descending order

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66
papers

7,071
citations

76326

40
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85541

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88
all docs

88
docs citations

88
times ranked

3746
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphinooxazolines A New Class of Versatile, Modular P,N-Ligands for Asymmetric Catalysis. <i>Accounts of Chemical Research</i> , 2000, 33, 336-345.	15.6	1,256
2	Basic Principles of the CIP-System and Proposals for a Revision. <i>Angewandte Chemie International Edition in English</i> , 1982, 21, 567-583.	4.4	555
3	Iridium-Catalyzed Asymmetric Allylic Substitution Reactions. <i>Chemical Reviews</i> , 2019, 119, 1855-1969.	47.7	547
4	Iridium-catalysed asymmetric allylic substitutions. <i>Chemical Communications</i> , 2007, , 675-691.	4.1	476
5	First Enantioselective Alkylations of Monosubstituted Allylic Acetates Catalyzed by Chiral Iridium Complexes. <i>Tetrahedron Letters</i> , 1997, 38, 8025-8026.	1.4	264
6	Applications of Iridium-Catalyzed Asymmetric Allylic Substitution Reactions in Target-Oriented Synthesis. <i>Accounts of Chemical Research</i> , 2017, 50, 2539-2555.	15.6	263
7	Ir-catalysed allylic substitution: mechanistic aspects and asymmetric synthesis with phosphorus amidites as ligands. <i>Chemical Communications</i> , 1999, , 741-742.	4.1	189
8	Iridium-Catalyzed Allylic Vinylation and Asymmetric Allylic Amination Reactions with <i>o</i> -Aminostyrenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 19006-19014.	13.7	178
9	Highly Enantioselective Syntheses of Heterocycles via Intramolecular Ir-Catalyzed Allylic Amination and Etherification. <i>Organic Letters</i> , 2005, 7, 1239-1242.	4.6	160
10	Salt-Free Iridium-Catalyzed Asymmetric Allylic Aminations with <i>N,N</i> -Diacylamines and <i>ortho</i> -Nosylamide as Ammonia Equivalents. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5546-5549.	13.8	154
11	Diastereoface-discriminative metal coordination in asymmetric synthesis: D-pantolactone as practical chiral auxiliary for Lewis acid catalyzed Diels-Alder reactions. <i>Tetrahedron Letters</i> , 1985, 26, 3095-3098.	1.4	144
12	Regio- and Enantioselective Iridium-Catalyzed Allylic Alkylation with In Situ Activated P,C-Chelate Complexes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4595-4597.	13.8	144
13	Iridium-Catalysed Allylic Substitution: Stereochemical Aspects and Isolation of Ir(III) Complexes Related to the Catalytic Cycle. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 2569-2586.	2.0	140
14	Iridium-Catalyzed Asymmetric Allylic Substitutions – Very High Regioselectivity and Air Stability with a Catalyst Derived from Dibenzo[<i>a</i>], [<i>e</i>]cyclooctatetraene and a Phosphoramidite. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7652-7655.	13.8	122
15	Enantio- and Regioselective Iridium-Catalyzed Allylic Hydroxylation. <i>Journal of the American Chemical Society</i> , 2011, 133, 2072-2075.	13.7	107
16	Gold-Catalyzed Intermolecular Addition of Carbonyl Compounds to 1,6-Enynes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5598-5601.	13.8	106
17	First intramolecular enantioselective iridium-catalysed allylic aminations. <i>Chemical Communications</i> , 2004, , 896.	4.1	103
18	Regio- and enantioselective iridium-catalysed allylic aminations and alkylations of dienyl esters. <i>Chemical Communications</i> , 2004, , 116.	4.1	95

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19	Asymmetric Ir-Catalysed Allylic Alkylation Of Monosubstituted Allylic Acetates With Phosphorus Amidites As Ligands. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1097-1103.	2.4	93
20	Enantioselective Total Synthesis of (±)-Kainic Acid. <i>Organic Letters</i> , 2010, 12, 1108-1111.	4.6	92
21	Ir-Catalysed Asymmetric Allylic Substitutions with Cyclometalated (Phosphoramidite)Ir Complexes—Resting States, Catalytically Active (Ir-Allyl)Ir Complexes and Computational Exploration. <i>Chemistry - A European Journal</i> , 2010, 16, 6601-6615.	3.3	82
22	Highly enantioselective iridium-catalysed allylic aminations with anionic N-nucleophiles. <i>Chemical Communications</i> , 2005, , 3541.	4.1	79
23	Ir-Catalyzed Asymmetric Allylic Substitutions with (Phosphoramidite)Ir Complexes—Resting States, Synthesis, and Characterization of Catalytically Active (Ir-Allyl)Ir Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 11087-11090.	3.3	74
24	Enantioselective synthesis of (+)(R)- and (±)(S)-nicotine based on Ir-catalysed allylic amination. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3266.	2.8	73
25	Addition of Organometallic Reagents to Chiral <i>N</i> -Methoxylactams: Enantioselective Syntheses of Pyrrolidines and Piperidines. <i>Chemistry - A European Journal</i> , 2013, 19, 16746-16755.	3.3	73
26	Asymmetric Iridium(I)-Catalyzed Allylic Alkylation of Monosubstituted Allylic Substrates with Phosphinooxazolines as Ligands. Isolation, Characterization, and Reactivity of Chiral (Allyl)iridium(III) Complexes. <i>Organometallics</i> , 2004, 23, 5459-5470.	2.3	71
27	Carbocycles via enantioselective inter- and intramolecular iridium-catalysed allylic alkylations. <i>Chemical Communications</i> , 2005, , 2957.	4.1	69
28	Enantioselective Modular Synthesis of 2,4-Disubstituted Cyclopentenones by Iridium-Catalyzed Allylic Alkylation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2466-2469.	13.8	69
29	Stereoselective Synthesis of 2,6-Disubstituted Piperidines Using the Iridium-Catalyzed Allylic Cyclization as Configurational Switch: Asymmetric Total Synthesis of (+)-241%D and Related Piperidine Alkaloids. <i>Chemistry - A European Journal</i> , 2009, 15, 2050-2054.	3.3	62
30	Enantioselective Syntheses of 2,5-Disubstituted Pyrrolidines Based on Iridium-Catalyzed Allylic Aminations—Total Syntheses of Alkaloids from Amphibian Skins. <i>Chemistry - A European Journal</i> , 2011, 17, 7605-7622.	3.3	61
31	A Configurational Switch Based on Iridium-Catalyzed Allylic Cyclization: Application in Asymmetric Total Syntheses of Prosopis, Dendrobate, and Spruce Alkaloids. <i>Chemistry - A European Journal</i> , 2009, 15, 10514-10532.	3.3	58
32	Enantio- and Regioselective Iridium-Catalyzed Allylic Esterification. <i>Journal of the American Chemical Society</i> , 2014, 136, 1272-1275.	13.7	56
33	Differential effects of the brefeldin A analogue (6R)-hydroxy-BFA in tobacco and Arabidopsis. <i>Journal of Experimental Botany</i> , 2011, 62, 2949-2957.	4.8	55
34	Gold-Catalyzed Intermolecular Addition of Carbonyl Compounds to 1,6-Enynes: Reactivity, Scope, and Mechanistic Aspects. <i>Chemistry - A European Journal</i> , 2009, 15, 10888-10900.	3.3	53
35	Preparation of 2,4-Disubstituted Cyclopentenones by Enantioselective Iridium-Catalyzed Allylic Alkylation: Synthesis of 2-Methylcarbovir and <i>TEL</i> . <i>Chemistry - A European Journal</i> , 2008, 14, 6722-6733.	3.3	50
36	Synthesis of β,γ -unsaturated β -lactams via asymmetric iridium-catalysed allylic substitution. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2357-2360.	2.8	46

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37	Asymmetric Diels-Alder reactions: EPC-synthesis of a stable sarkomycin precursor (cyclosarkomycin). <i>Tetrahedron Letters</i> , 1989, 30, 5599-5602.	1.4	45
38	Enantioselective Iridium-Catalyzed Allylic Substitutions with Hydroxamic Acid Derivatives as N-Nucleophiles. <i>Organic Letters</i> , 2011, 13, 2810-2813.	4.6	39
39	A New Synthesis Route to Enantiomerically Pure Jasmonoids. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4054-4056.	13.8	38
40	Enantioselective Modular Synthesis of Cyclohexenones: Total Syntheses of (+)-Crypto- and (+)-Infectocaryone. <i>Organic Letters</i> , 2010, 12, 3886-3889.	4.6	35
41	Enantioselective Syntheses of Tetrahydroquinolines Based on Iridium-Catalyzed Allylic Substitutions: Total Syntheses of (+)-Angustureine and (-)-Cuspareine. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6877-6886.	2.4	35
42	Building Blocks for the Synthesis of Enantiomerically Pure Jasmonoids: Synthesis of (+)-Methyl Epijasmonate. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 1024-1025.	4.4	34
43	Iridium-Catalyzed Allylic Substitutions with Cyclometalated Phosphoramidite Complexes Bearing a Dibenzocyclooctatetraene Ligand: Preparation of (Î€Allyl)Ir Complexes and Computational and NMR Spectroscopic Studies. <i>Chemistry - A European Journal</i> , 2012, 18, 14314-14328.	3.3	34
44	Bicyclic Cyclopentenones <i>via</i> the Combination of an Iridium-Catalyzed Allylic Substitution with a Diastereoselective Intramolecular Pauson-Khand Reaction. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 349-370.	4.3	33
45	Malononitrile as Acylanion Equivalent. <i>Synlett</i> , 2008, 2008, 2803-2806.	1.8	30
46	Enantioselective Syntheses of the Alkaloids <i>cis</i>-195A (Pumiliotoxin C) and <i>trans</i>-195A Based on Multiple Applications of Asymmetric Catalysis. <i>Journal of Organic Chemistry</i> , 2012, 77, 1186-1190.	3.2	28
47	Stereoselective Synthesis of Î€Proline Derivatives from Allylamines <i>via</i> Domino Hydroformylation/Wittig Olefination and Aza-Michael Addition. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1023-1032.	4.3	26
48	Synthesis and Biological Properties of Novel Brefeldin A Analogues. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5872-5884.	6.4	26
49	Syntheses and Biological Properties of Brefeldin Analogues. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 878-891.	2.4	22
50	Platinum(II) Chloride-Catalyzed Stereoselective Domino Enyne Isomerization/Diels-Alder Reaction. <i>Journal of Organic Chemistry</i> , 2010, 75, 7917-7919.	3.2	20
51	Enantio- and Diastereoselective Syntheses of Î€Hydroxypiperidines through Iridium-Catalyzed Allylic Substitution. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5149-5159.	2.4	17
52	Enantioselective Syntheses of Bicyclic Lactams Based on Iridium-Catalyzed Asymmetric Allylic Substitution and Heck Cyclization. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2242-2252.	2.4	13
53	Immobilized Catalysts for Iridium-Catalyzed Allylic Amination: Rate Enhancement by Immobilization. <i>Chemistry - A European Journal</i> , 2015, 21, 7127-7134.	3.3	13
54	Enantioselective Iridium-Catalyzed Allylic Alkylations - Improvements and Applications Based on Salt-Free Reaction Conditions. <i>Synlett</i> , 2007, 2007, 0790-0794.	1.8	12

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55	Enantioselective Iridium-Catalyzed Allylic Aminations of Allylic Carbonates with Functionalized Side Chains. <i>Asymmetric Total Synthesis of (S)-Vigabatrin</i> . <i>Synthesis</i> , 2008, 2008, 3331-3350.	2.3	12
56	Enantioselective Syntheses of 2-Substituted Pyrrolidines from Allylamines by Domino Hydroformylation-Condensation: Short Syntheses of (S)-Nicotine and the Alkaloid 225C. <i>Synlett</i> , 2009, 2009, 1413-1416.	1.8	12
57	Enantioselective Total Synthesis and Absolute Configuration of Apiosporic Acid. <i>Journal of Organic Chemistry</i> , 2012, 77, 4491-4495.	3.2	12
58	Syntheses of the Hexahydroindene Cores of Indanomycin and Stawamycin by Combinations of Iridium-Catalyzed Asymmetric Allylic Alkylations and Intramolecular Diels-Alder Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 400-405.	3.3	12
59	The 50th Anniversary of the Cahn-Ingold-Prelog Specification of Molecular Chirality. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6798-6799.	13.8	12
60	Stereoselective Synthesis of a <i>cis</i> -1,2-Dialkylcyclopentane Building Block and Its Application in Isoprostane Synthesis (5 <i>ent</i> -F _{2c} -IsoP). <i>European Journal of Organic Chemistry</i> , 2008, 2008, 2551-2563.	2.4	9
61	Iridium-Catalyzed Asymmetric Allylic Substitutions with Bulky Amines/Oxidative Double Bond Cleavage - Entry into the Retz Synthesis of Amino Alcohols. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 493-501.	2.4	9
62	Ein neuer Syntheseweg zu enantiomerenreinen Jasmonoiden. <i>Angewandte Chemie</i> , 2002, 114, 4231-4234.	2.0	7
63	Stereoselective Synthesis of a Lactam Analogue of Brefeldin C. <i>Synlett</i> , 2008, 2008, 831-836.	1.8	6
64	Iridium-Catalyzed Enantioselective Allylic Substitutions with Aliphatic Nitro Compounds as Prenucleophiles. <i>Synlett</i> , 2006, 2006, 0697-0700.	1.8	5
65	50 Jahre Spezifikation der molekularen ChiralitÄt durch Cahn, Ingold und Prelog. <i>Angewandte Chemie</i> , 2016, 128, 6910-6911.	2.0	1
66	Andreas Pfaltz: on the Occasion of his 60th Birthday. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 951-952.	4.3	0