

# Lukas Hintermann

## List of Publications by Year in descending order

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78  
papers

3,766  
citations

147801

31  
h-index

128289

60  
g-index

111  
all docs

111  
docs citations

111  
times ranked

3477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic Hydration of Alkynes and Its Application in Synthesis. <i>Synthesis</i> , 2007, 2007, 1121-1150.	2.3	379
2	Catalytic Enantioselective Fluorination of $\beta^2$ -Ketoesters. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4359-4362.	13.8	354
3	Hidden Brønsted Acid Catalysis: Pathways of Accidental or Deliberate Generation of Triflic Acid from Metal Triflates. <i>Journal of Organic Chemistry</i> , 2011, 76, 9353-9361.	3.2	263
4	Expedient syntheses of the N-heterocyclic carbene precursor imidazolium salts IPr $\cdot$ HCl, IMes $\cdot$ HCl and IXy $\cdot$ HCl. <i>Beilstein Journal of Organic Chemistry</i> , 2007, 3, 22.	2.2	160
5	Strong Electronic Effects on Enantioselectivity in Rhodium-Catalyzed Hydroborations with Novel Pyrazole-Containing Ferrocenyl Ligands. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 931-933.	4.4	144
6	Catalytic Enantioselective Chlorination and Bromination of $\beta^2$ -Keto Esters. <i>Helvetica Chimica Acta</i> , 2000, 83, 2425-2435.	1.6	138
7	Titanium-Catalyzed Stereoselective Geminal Heterodihalogenation of $\beta^2$ -Ketoesters. <i>Organic Letters</i> , 2003, 5, 1709-1712.	4.6	127
8	Highly Active in Situ Catalysts for Anti-Markovnikov Hydration of Terminal Alkynes. <i>Organic Letters</i> , 2006, 8, 5853-5856.	4.6	120
9	Recent Developments in Metal-Catalyzed Additions of Oxygen Nucleophiles to Alkenes and Alkynes. <i>Topics in Organometallic Chemistry</i> , 2010, , 123-155.	0.7	120
10	Mixed Phosphane $\eta^5$ -CpRuCl(PR <sub>3</sub> ) <sub>2</sub> Complexes as Ambifunctional Catalysts for Anti-Markovnikov Hydration of Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2011, 133, 8138-8141.	13.7	90
11	A General and Selective Copper-Catalyzed Cross-Coupling of Tertiary Grignard Reagents with Azacyclic Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8246-8250.	13.8	82
12	The AZARYPHOS Family of Ligands for Ambifunctional Catalysis: Syntheses and Use in Ruthenium-Catalyzed anti-Markovnikov Hydration of Terminal Alkynes. <i>Chemistry - A European Journal</i> , 2009, 15, 7167-7179.	3.3	82
13	Synthesis and Structure of Pyrazole-Containing Ferrocenyl Ligands for Asymmetric Catalysis. <i>Organometallics</i> , 1995, 14, 5415-5425.	2.3	73
14	Asymmetric Cyclization of $\alpha^2$ -Hydroxychalcones to Flavanones: Catalysis by Chiral Brønsted Acids and Bases. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5886-5898.	2.4	72
15	Interactions of Cationic Palladium(II)- and Platinum(II)- $\eta^3$ -Allyl Complexes with Fluoride: Is Asymmetric Allylic Fluorination a Viable Reaction?. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1397-1412.	2.0	66
16	Structure of the Dioxygenase AsqJ: Mechanistic Insights into a One-Pot Multistep Quinolone Antibiotic Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 422-426.	13.8	65
17	Emission Properties of Oxyluciferin and Its Derivatives in Water: Revealing the Nature of the Emissive Species in Firefly Bioluminescence. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2638-2649.	2.6	63
18	Deciphering the protonation and tautomeric equilibria of firefly oxyluciferin by molecular engineering and multivariate curve resolution. <i>Chemical Science</i> , 2013, 4, 3803.	7.4	60

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19	First Stereoselective Total Synthesis of FDâ€594 Aglycon. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3462-3465.	13.8	59
20	On the Influence of Water on the Electronic Structure of Firefly Oxyluciferin Anions from Absorption Spectroscopy of Bare and Monohydrated Ions in Vacuo. <i>Journal of the American Chemical Society</i> , 2013, 135, 6485-6493.	13.7	55
21	Carbonâ~Fluorine Bond Formation via a Five-Coordinate Fluoro Complex of Ruthenium(II), Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1999, 82, 2448-2453.	1.6	51
22	Substrate Range of the Titanium TADDOLate Catalyzed Asymmetric Fluorination of Activated Carbonyl Compounds. <i>Helvetica Chimica Acta</i> , 2012, 95, 353-403.	1.6	51
23	[CpRu(Î<sup>6</sup>-naphthalene)]PF<sub>6</sub> as Precursor in Complex Synthesis and Catalysis with the Cyclopentadienyl-Ruthenium(II) Cation. <i>Organometallics</i> , 2009, 28, 5739-5748.	2.3	46
24	Redox-Neutral Synthesis of Î²-Amino Aldehydes from Imines by an Alkynylation/Hydration Sequence. <i>Journal of Organic Chemistry</i> , 2007, 72, 5704-5708.	3.2	44
25	Starke EinflÃ¼sse der elektronischen Struktur auf die EnantioselektivitÃ¤t in der Rhodiumkatalysierten Hydroborierung mit neuen, Pyrazolylâ€haltigen Ferrocenylliganden. <i>Angewandte Chemie</i> , 1995, 107, 996-998.	2.0	42
26	Inner Workings of a Cinchona Alkaloid Catalyzed Oxaâ€Michael Cyclization: Evidence for a Concerted Hydrogenâ€Bondâ€Network Mechanism. <i>Chemistry - A European Journal</i> , 2013, 19, 2311-2321.	3.3	40
27	Asymmetric Ionâ€Pairing Catalysis of the Reversible Cyclization of 2â€â€Hydroxychalcone to Flavanone: Asymmetric Catalysis of an Equilibrating Reaction. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 5573-5584.	2.4	39
28	Solvent-Controlled Leaving-Group Selectivity in Aromatic Nucleophilic Substitution. <i>Organic Letters</i> , 2008, 10, 4859-4862.	4.6	38
29	Asymmetric Hydroalkoxylation of Nonâ€Activated Alkenes: Titaniumâ€Catalyzed Cycloisomerization of Allylphenols at High Temperatures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4014-4017.	13.8	38
30	Nucleophilic Addition of Organometallic Reagents to Cinchona Alkaloids: Simple Access to Diverse Architectures. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5164-5167.	13.8	37
31	Synthesis of Soai Aldehydes for Asymmetric Autocatalysis by Desulfurative Cross-Coupling. <i>Organic Letters</i> , 2014, 16, 1282-1285.	4.6	30
32	Development of the titaniumâ€TADDOLate-catalyzed asymmetric fluorination of Î²-ketoesters. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 1421-1435.	2.2	29
33	Why is Firefly Oxyluciferin a Notoriously Labile Substance?. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 847-850.	13.8	29
34	Cyclization of <i>ortho</i>-hydroxycinnamates to coumarins under mild conditions: A nucleophilic organocatalysis approach. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1630-1636.	2.2	28
35	Aluminumâ€Catalyzed Hydroalkoxylation at Elevated Temperatures: Fast and Simple Access to Coumarans and Other Oxygen Heterocycles. <i>ChemCatChem</i> , 2013, 5, 3309-3315.	3.7	28
36	Synthesis of Chiral Cyrhetrenes and Their Application in Asymmetric Catalysis. <i>Organometallics</i> , 2004, 23, 2362-2369.	2.3	27

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37	Thieme Chemistry Journal Awardees - Where Are They Now? Aldol Synthesis by anti-Markovnikov Hydration of Propargyloxy Substrates: Feasibility, Stereospecificity, and Reiterative Alkynylation-Hydration. <i>Synlett</i> , 2009, 2009, 2412-2416.	1.8	25
38	Medium Buffer Effects on the Condensation of L-Cysteine and Aryl Nitriles to (R)-2-Aryl-4,5-dihydrothiazole-4-carboxylic Acids. <i>Synthesis</i> , 2013, 45, 2763-2767.	2.3	22
39	Wacker-Type Oxidations. , 0, , 379-388.		21
40	A Direct Synthesis of Symmetrical ( <i>cis</i> )-1,4-Diaryla-1,3-butadienes by Wenkert Arylation of Thiophene. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 2411-2415.	4.3	18
41	Anti-Markovnikov Hydration of Terminal Alkenes: A Coupled Catalytic Cycle Approach. <i>ChemCatChem</i> , 2012, 4, 321-322.	3.7	18
42	Enantioselective Synthesis of Phospholenes via Asymmetric Organocatalytic Alkene Isomerization. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1469-1473.	4.3	17
43	Titanium Lewis Acids for Asymmetric Catalysis: Synthesis and Structural Characterization of Dichloro[diolato(2- $\text{P}^{\text{O}}$ )]bis(solvent)titanium ( $[\text{TiCl}_2(\text{diolato})(\text{solvent})_2]$ ) Complexes. <i>Helvetica Chimica Acta</i> , 2002, 85, 1597-1612.	1.6	16
44	A Sequential Homologation of Alkynes and Aldehydes for Chain Elongation with Optional $^{13}\text{C}$ -Labeling. <i>Chemistry - A European Journal</i> , 2016, 22, 2787-2792.	3.3	16
45	Flaud's Acid: A Brønsted Acid Catalyst for Enantioselective Friedel-Crafts Alkylation of Indoles with 2-Alkene-1,4-diones. <i>Organic Letters</i> , 2017, 19, 3426-3429.	4.6	15
46	Generation of Organozinc Reagents by Nickel Diazadiene Complex Catalyzed Zinc Insertion into Aryl Sulfonates. <i>Chemistry - A European Journal</i> , 2020, 26, 176-180.	3.3	14
47	Bioinspired Molecular Lantern: Tuning the Firefly Oxyluciferin Emission with Host-Guest Chemistry. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7671-7680.	2.6	12
48	Complexes of Rhodium(I) and Iridium(I) with the Chiral Tridentate Phosphane Pigiphos: Structure and Reactivity Studies. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 601-609.	2.0	11
49	Peak Separation by Adventitious or Added Water in Normal-Phase Chiral HPLC. <i>Journal of Organic Chemistry</i> , 2007, 72, 9790-9793.	3.2	11
50	Catalytic C-Alkylation of Pyrroles with Primary Alcohols: Hans Fischer's Alkali and a New Method with Iridium P,N-Pincer Complexes. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1624-1633.	2.4	11
51	Configurational Assignment of $\alpha$ -Cryptochiral 10-Hydroxystearic Acid Through an Asymmetric Catalytic Synthesis. <i>Helvetica Chimica Acta</i> , 2016, 99, 928-943.	1.6	10
52	Oxyluciferin Derivatives: A Toolbox of Environment-Sensitive Fluorescence Probes for Molecular and Cellular Applications. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1566-1575.	2.6	10
53	Is the tungsten(IV) complex $(\text{NEt}_4)_2[\text{WO}(\text{mnt})_2]$ a functional analogue of acetylene hydratase?. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2332-2339.	2.2	9
54	Stereochemistry of the Menthyl Grignard Reagent: Generation, Composition, Dynamics, and Reactions with Electrophiles. <i>Journal of Organic Chemistry</i> , 2018, 83, 15009-15028.	3.2	9

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55	Organocatalytic Stereoisomerization versus Alkene Isomerization: Catalytic Asymmetric Synthesis of 1-Hydroxy-trans-2,5-diphenylphospholane 1-Oxide. <i>Synthesis</i> , 2013, 45, 308-325.	2.3	8
56	Synthesis of Soai Type 2- <i>Aryl</i> pyrimidine-5-carbaldehydes through Desulfurative Cross-Coupling with Arylboronic Acids. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7426-7432.	2.4	8
57	Dimethylphosphine <i>P</i> -Oxide as a Synthetic Platform for Bulky and Chiral Ligands with Dimethylphosphino Donor Groups. <i>Organometallics</i> , 2022, 41, 1-19.	2.3	7
58	Reversible Generation of Metastable Enols in the 1,4-Addition of Thioacetic Acid to $\hat{1},\hat{1}^2$ -Unsaturated Carbonyl Compounds. <i>Journal of Organic Chemistry</i> , 2012, 77, 11345-11348.	3.2	6
59	Axially Chiral 1,1'-Binaphthyl-2-Carboxylic Acid (BINA-Cox) as Ligands for Titanium-Catalyzed Asymmetric Hydroalkoxylation. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 2062-2076.	2.4	6
60	Cationic Zirconocene Species in Organic Synthesis. , 0, , 282-318.		5
61	Iterative Synthesis of Oligo-1,4-diols via Catalytic Anti-Markovnikov Hydration of Terminal Alkynes. <i>Synthesis</i> , 2007, 2007, 2809-2818.	2.3	5
62	Vibrational Spectra of Chemical and Isotopic Variants of Oxyluciferin, the Light Emitter of Firefly Bioluminescence. <i>Chemistry - A European Journal</i> , 2014, 20, 10782-10790.	3.3	5
63	Rearrangement in Stereoretentive Syntheses of Menthyl Chloride from Menthol: Insight into Competing Reaction Pathways through Component Quantification Analysis. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5527-5536.	2.4	5
64	2,5-Dihydroxyterephthalates, 2,5-Dichloro-1,4-benzoquinone-3,6-dicarboxylates, and Polymorphic 2,5-Dichloro-3,6-dihydroxyterephthalates. <i>Synthesis</i> , 2008, 2008, 2303-2306.	2.3	4
65	Photoinduced dissociation mass spectroscopy of firefly oxyluciferin anions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 3-9.	1.5	4
66	2-Amino-1,3,5-triazine chemistry: hydrogen-bond networks, Takemoto thiourea catalyst analogs, and olfactory mapping of a sweet-smelling triazine. <i>Monatshefte für Chemie</i> , 2015, 146, 1529-1539.	1.8	4
67	Synthesis of Tetraoxygenated Terephthalates via a Dichloroquinone Route: Characterization of Cross-Conjugated Liebermann Betaine Intermediates. <i>Helvetica Chimica Acta</i> , 2017, 100, e1600392.	1.6	4
68	Discovery and Comparison of Homogeneous Catalysts in a Standardized HOT-CAT Screen with Microwave Heating and qNMR Analysis: Exploring Catalytic Hydration of Alkynes. <i>ChemCatChem</i> , 2020, 12, 152-168.	3.7	4
69	Greener aromatic antioxidants for aviation and beyond. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2153-2163.	4.9	4
70	Metal-catalysis in Industrial Organic Processes. <i>Synthesis</i> , 2007, 2007, 2064-2064.	2.3	2
71	New Access Routes to Privileged and Chiral Ligands for Transition-Metal Catalyzed Hydrogen Autotransfer (Borrowing Hydrogen), Dehydrogenative Condensation, and Alkene Isomerization Reactions. <i>Helvetica Chimica Acta</i> , 2021, 104, e2100175.	1.6	2
72	Transfer Hydrogenations of Alkenes with Formate on Pd/C: Synthesis of Dihydrocinchona Alkaloids. <i>Synthesis</i> , 2013, 45, 888-892.	2.3	1

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73	Structure Elucidation of a Cryptic Condensation Product from Diacetyl and Arylamine " Then and Now. <i>Chimia</i> , 2020, 74, 293-297.	0.6	1
74	Titanium-Catalyzed Stereoselective Geminal Heterodihalogenation of $\alpha^2$ -Ketoesters.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
75	Cationic Zirconocene Species in Organic Synthesis. <i>ChemInform</i> , 2004, 35, no.	0.0	0
76	Wacker-Type Oxidations. <i>ChemInform</i> , 2005, 36, no.	0.0	0
77	"Chemie-Emmys" in Aachen. <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 579-579.	0.0	0
78	Mannich N-Indolylmethylation of Amino Acids. <i>Synthesis</i> , 2017, 49, 2257-2265.	2.3	0