

Dieter Lentz

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis of Fluorinated Building Blocks by Transition-Metal-Mediated Hydrodefluorination Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3328-3348.	13.8	357
2	The QTAIM Approach to Chemical Bonding Between Transition Metals and Carbocyclic Rings: A Combined Experimental and Theoretical Study of $(\text{I}^{\text{5-}}\text{-C}^{\text{5}}\text{H}^{\text{5}})\text{Mn}(\text{CO})_3$, $(\text{I}^{\text{6-}}\text{-C}^{\text{6}}\text{H}^{\text{6}})\text{Cr}(\text{CO})_3$, and $(\text{I}^{\text{E}}\text{-C}^{\text{5}}\text{H}^{\text{4}})\text{CF}_2\text{-CF}(\text{I}^{\text{5-}}\text{-C}^{\text{5}}\text{H}^{\text{4}})$. <i>Journal of the American Chemical Society</i> , 2009, 131, 1251-1268.	13.7	170
3	Accurate crystal structures and chemical properties from NoSpherA2. <i>Chemical Science</i> , 2021, 12, 1675-1692.	7.4	147
4	Titanium-Catalyzed C-F Activation of Fluoroalkenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2933-2936.	13.8	137
5	Electronic Properties of Trifluoromethylated Corannulenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11385-11388.	13.8	106
6	Titanium-Catalyzed Vinylic and Allylic C-F Bond Activation—Scope, Limitations and Mechanistic Insight. <i>Chemistry - A European Journal</i> , 2012, 18, 10701-10714.	3.3	86
7	Pentafluorosulfanyl as a Novel Building Block for Enzyme Inhibitors: Trypanothione Reductase Inhibition and Antiprotozoal Activities of Diarylamines. <i>ChemBioChem</i> , 2009, 10, 79-83.	2.6	85
8	Three-Component Synthesis of Highly Functionalized 5-Acetyloxazoles. <i>Chemistry - A European Journal</i> , 2009, 15, 5432-5435.	3.3	67
9	Syntheses and Properties of Buckybowls Bearing Electron-withdrawing Groups. <i>Chemistry Letters</i> , 2014, 43, 171-177.	1.3	67
10	Experimental electron density of sumanene, a bowl-shaped fullerene fragment; comparison with the related corannulene hydrocarbon. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2218.	2.8	59
11	Three-Component Synthesis of Perfluoroalkyl- or Perfluoroaryl-Substituted 4-Hydroxypyridine Derivatives and Their Palladium-Catalyzed Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2010, 75, 726-732.	3.2	53
12	Fluorinated and Trifluoromethylated Corannulenes. <i>Chemistry - A European Journal</i> , 2013, 19, 13872-13880.	3.3	53
13	Naphthocage: A Flexible yet Extremely Strong Binder for Singly Charged Organic Cations. <i>Journal of the American Chemical Society</i> , 2019, 141, 4468-4473.	13.7	53
14	Electron-poor N-substituted imide-fused corannulenes. <i>Chemical Communications</i> , 2012, 48, 6520.	4.1	49
15	Synthesis of 5-Acetyloxazoles and 1,2-Diketones from $\text{I}^{\text{2-}}\text{-Alkoxy-C}^{\text{2-}}\text{-ketoenamides}$ and Their Subsequent Transformations. <i>Chemistry - A European Journal</i> , 2011, 17, 7480-7491.	3.3	46
16	Real-Space Indicators for Chemical Bonding. Experimental and Theoretical Electron Density Studies of Four Tetrahedral Boranes. <i>Inorganic Chemistry</i> , 2011, 50, 90-103.	4.0	45
17	Synthesis of the Smallest Axially Chiral Molecule by Asymmetric Carbon-Fluorine Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2218-2220.	13.8	43
18	Organometallic Chemistry of Fluorinated Allenes. <i>Chemistry - A European Journal</i> , 2002, 8, 1205.	3.3	42

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19	Corannulenylferrocenes: towards a 1D, non-covalent metal-organic nanowire. <i>Chemical Communications</i> , 2012, 48, 6298.	4.1	37
20	Selective Catalytic Hydrodefluorination as a Key Step for the Synthesis of Hitherto Inaccessible Aminopyridine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9491-9494.	13.8	36
21	Synthesis and Structure Revision of Dichrocephones...A and B. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2419-2422.	13.8	34
22	Synthesis of Fluorinated Dienes by Palladium-Catalyzed Coupling Reactions. <i>Chemistry - an Asian Journal</i> , 2008, 3, 719-731.	3.3	33
23	The Synthesis of Hexafluorosumanene and Its Congeners. <i>Chemistry - A European Journal</i> , 2013, 19, 3282-3286.	3.3	33
24	Corannulenes with Electron-Withdrawing Substituents: Synthetic Approaches and Resulting Structural and Electronic Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 3440-3454.	3.3	33
25	Synthesis of Strophasterol...A Guided by a Proposed Biosynthesis and Innate Reactivity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11656-11659.	13.8	31
26	Coordination Chemistry of Fluorinated Allenes. <i>Organometallics</i> , 1999, 18, 3962-3964.	2.3	29
27	Studies on the Synthesis of Specifically Fluorinated 4-Amino-pyridine Derivatives by Regioselective Nucleophilic Aromatic Substitution and Catalytic Hydrodefluorination. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3215-3228.	4.3	26
28	Synthesis of Enantioenriched Bromohydrins via Divergent Reactions of Racemic Intermediates from Anchimeric Oxygen Borrowing. <i>Journal of the American Chemical Society</i> , 2018, 140, 10677-10681.	13.7	26
29	Cyanoisocynoacetylene, N ₂ C ₂ C ₂ N ₂ C. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2879-2882.	2.3	25
30	Exploring the Chemistry of a Double-Stranded Cycle with the Carbon Skeleton of the Belt Region of the C ₈₄ Fullerene. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 88-100.	2.4	24
31	One-Pot Synthesis of 5-Hydroxy-4 <i>H</i> -1,3-thiazin-4-ones: Structure Revision, Synthesis, and NMR Shift Dependence of Thiasporine A. <i>Organic Letters</i> , 2016, 18, 3070-3073.	4.6	23
32	Fluorinated Bis(enyl) Ligands by Metal-Induced Dimerization of Fluorinated Allenes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2087-2091.	13.8	21
33	Hydrometalation of fluoroallenes. <i>Dalton Transactions</i> , 2009, , 4747.	3.3	21
34	Autocatalytic formation of fluorinated ferrocenophanes from 1,1-bis(trifluorovinyl)ferrocene. <i>Chemical Communications</i> , 2011, 47, 7239.	4.1	21
35	Ferrocenes with Perfluorinated Side Chains and Ferrocenophanes with Fluorinated Handles. <i>Chemistry - A European Journal</i> , 2012, 18, 3371-3389.	3.3	21
36	NHC-Alane Adducts as Hydride Sources in the Hydrodefluorination of Fluoroaromatics and Fluoroolefins. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4031-4043.	2.0	21

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37	Dienamine-Induced Divinylcyclopropane-Cycloheptadiene Rearrangements. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5075-5079.	13.8	21
38	Organometallic chemistry of fluorinated propadienes and butadienes. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 853-861.	1.7	20
39	Simultaneous introduction of trifluoromethyl and $\hat{\text{I}}^{6\text{-sup}}$ -pentafluorosulfanyl substituents using $\text{F}_5\text{S-CF}_3$ as a dienophile. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5625-5628.	2.8	20
40	How a Thermally Unstable Metal Hydrido Complex Can Yield High Catalytic Activity Even at Elevated Temperatures. <i>Chemistry - A European Journal</i> , 2016, 22, 9305-9310.	3.3	20
41	Trifluoromethyl Isocyanide as a Synthetic Building Block-Reaction with Trifluoroacetic Acid and with Hexafluoroacetone. <i>Angewandte Chemie International Edition in English</i> , 1987, 26, 921-923.	4.4	19
42	Formation of novel unsaturated fluorinated ligands by metal induced C-C coupling reaction of difluoroallene with fluoromethylidyne ligands of $\text{Fe}_3(\text{CO})_9(\text{I}^{\text{43}}\text{-CF})_2$. <i>Journal of Organometallic Chemistry</i> , 2002, 641, 215-219.	1.8	19
43	Electron Density of Corannulene from Synchrotron Data at 12 K, Comparison with Fullerenes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2010, 65, 452-460.	0.7	19
44	Fluorinated dienes in transition-metal chemistry - the rich chemistry of electron-poor ligands. <i>Dalton Transactions</i> , 2010, 39, 9745.	3.3	19
45	Stabilization of Tetrafluorobutatriene by Complex Formation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4902-4904.	13.8	18
46	Bulky-Alkyl-Substituted Bis(trifluorovinyl)ferrocenes: Redox-Autocatalytic Formation of Fluorinated Ferrocenophanes. <i>Organometallics</i> , 2012, 31, 1500-1510.	2.3	18
47	Fluorinated butatrienes. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1173-1181.	1.7	17
48	Synthesis of enantiomerically pure (2 <i>S</i> ,3 <i>S</i>)-5,5,5-trifluoroisoleucine and (2 <i>R</i> ,3 <i>S</i>)-5,5,5-trifluoro- <i>allo</i> -isoleucine. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2009-2014.	2.2	17
49	Organocatalytic C-F Bond Activation with Alanes. <i>Chemistry - A European Journal</i> , 2018, 24, 6769-6777.	3.3	17
50	Mechanistic Studies on the Organocatalytic $\hat{\text{I}}$ -Chlorination of Aldehydes: The Role and Nature of Off-Cycle Intermediates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11683-11687.	13.8	17
51	Synthesis and Reactions of Trifluorovinylferrocene. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4875-4878.	2.0	15
52	Syntheses and Properties of Multiferrocenylated Corannulenes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5391-5405.	2.0	15
53	Competition of Nucleophilic Aromatic Substitution, $\hat{\text{I}}$ -Bond Metathesis, and <i>syn</i> Hydrometalation in Titanium(III)-Catalyzed Hydrodefluorination of Arenes. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3062-3071.	3.3	15
54	Trifluormethylisocyanid als Synthesebaustein-Reaktion mit TrifluoressigsÄure und mit Hexafluoraceton. <i>Angewandte Chemie</i> , 1987, 99, 951-953.	2.0	14

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55	Cymantrene- and Ferrocene-Based Complexes with Perfluorinated Bridging Moieties. <i>Organometallics</i> , 2011, 30, 2063-2066.	2.3	13
56	Improving selectivity in catalytic hydrodefluorination by limiting S_NV reactivity. <i>Dalton Transactions</i> , 2016, 45, 16789-16798.	3.3	13
57	Solid state structures of fluorine-rich fluoranthenes. <i>CrystEngComm</i> , 2017, 19, 1328-1333.	2.6	12
58	Synthesis and Reactivity of Hexafluoro-1,2-diisocyanocyclobutanechromium Complexes. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1456-1458.	4.4	11
59	Percarboxylic Acid Oxidation of β -Hydroxy-Substituted Alkoxyallenes: The Unexpected Formation of Acyloxy-Substituted 1,2-Diketones and the Synthesis of Functionalized Quinoxalines. <i>Synthesis</i> , 2016, 48, 1491-1501.	2.3	11
60	Tuning the Electron Affinity and Stacking Properties of Corannulene by Introduction of Fluorinated Thioethers. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3022-3026.	3.3	10
61	Syntheses of Halogenated Ethenyl Isocyanide Chromium Complexes as Organometallic Precursor Molecules for Ethenyl and Ethynyl Isocyanides. <i>Chemistry - A European Journal</i> , 2001, 7, 881-893.	3.3	9
62	Synthesis of Thelepamide via Catalyst-Controlled 1,4-Addition of Cysteine Derivatives and Structure Revision of Thelepamide. <i>Organic Letters</i> , 2018, 20, 594-597.	4.6	9
63	Tetracyanocorannulene – an Easily Accessible and Strongly Electron-Deficient Compound. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6338-6342.	2.4	9
64	Synthese und Reaktionen von Hexafluor-1,2-diisocyanocyclobutan-Chromkomplexen. <i>Angewandte Chemie</i> , 1993, 105, 1547-1549.	2.0	8
65	Octafluor-1, 2-dimethylcyclobutan, ein perfluoriertes Dien-Komplexligand Carbonyl(η -5-cyclopentadienyl)(η -4-octafluor-1, 2-dimethylcyclobutan)mangan. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 973-976.	1.2	8
66	Synthesis and Structure Revision of Dichrocephones...A and B. <i>Angewandte Chemie</i> , 2018, 130, 2443-2446.	2.0	8
67	Synthesis of (+)-Vitepyrroloid A and (+)-Vitepyrroloid B by Late-Stage Ni-Catalyzed C(sp ²)–C(sp ³) Cross-Electrophile Coupling. <i>Journal of Organic Chemistry</i> , 2018, 83, 6793-6797.	3.2	8
68	Gallium Hydrides and O/N-Donors as Tunable Systems in C–F Bond Activation. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2908-2915.	3.3	7
69	Reactivity of rhodium hydrido and silyl complexes towards 1,1-difluoroallene. <i>Journal of Fluorine Chemistry</i> , 2018, 214, 80-85.	1.7	7
70	Theoretical AIM and ELM Study of Ammonium Hexahydrohexaborate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 2057-2064.	1.2	6
71	Selective Synthesis of Perfluoroalkylated Corannulenes and Investigation of their Structural, Dynamic and Electrochemical Behavior. <i>Chemistry - A European Journal</i> , 2018, 24, 10756-10765.	3.3	6
72	Mechanistic Studies on the Organocatalytic α -Chlorination of Aldehydes: The Role and Nature of Off-Cycle Intermediates. <i>Angewandte Chemie</i> , 2018, 130, 11857-11861.	2.0	5

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73	Organic Additives to Improve Catalyst Performance for High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>ChemElectroChem</i> , 2019, 6, 3892-3900.	3.4	5
74	C-C Coupling Reactions of Pentacarbonyl(trifluoroethyl isocyanide)chromium with Cyclopentadienyl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2967-2970.	2.0	4
75	Partially Fluorinated Butatrienes: A Coupled Cluster Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3609-3614.	2.5	4
76	Synthese von Strophasterol...A einer Biosynthesevermutung und inhÄrenter ReaktivitÄt folgend. <i>Angewandte Chemie</i> , 2016, 128, 11828-11831.	2.0	4
77	To Anion- or not to Anion-: The Case of Anion-Binding to Divalent Fluorinated Pyridines in the Gas Phase. <i>Chemistry - A European Journal</i> , 2018, 24, 12879-12889.	3.3	4
78	Alkoxyallene-Based LANCA Three-Component Synthesis of 1,2-Diketones, Quinoxalines, and Unique Isoindenone Dimers and a Computational Study of the Isoindenone Dimerization. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1753-1763.	2.4	4
79	Substitution Pattern-Controlled Fluorescence Lifetimes of Fluoranthene Dyes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1207-1213.	2.6	2
80	Coordination chemistry and oxidative addition of trifluorovinylferrocene derivatives. <i>Journal of Fluorine Chemistry</i> , 2016, 192, 105-112.	1.7	1
81	Rare Earth Metal Catalyzed C-F Bond Activation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1229-1233.	1.2	1
82	Tetraethylammonium Hexafluoro Uranate(IV), Hafnate(IV), and Cerate(IV) Salts: Preparation and Solid-State Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 1052-1056.	1.2	1
83	Synthesis of Cyclopentadiene Ligands with Fluorinated Substituents by Reaction of Cobaltocene with Fluoroalkenes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5103-5106.	2.0	0