

Bruno Linclau

List of Publications by Year in descending order

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112
papers

2,625
citations

159525

30
h-index

254106

43
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138
all docs

138
docs citations

138
times ranked

2376
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the Influence of (Deoxy)fluorination on the Lipophilicity of Non-Active Fluorinated Alkanols and Carbohydrates by a New $\log P$ Determination Method. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 674-678.	7.2	111
2	Systematic Investigation of Lipophilicity Modulation by Aliphatic Fluorination Motifs. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1002-1031.	2.9	83
3	An Unexpected and Significantly Lower Hydrogen-Bond Donating Capacity of Fluorohydrins Compared to Nonfluorinated Alcohols. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6176-6180.	7.2	80
4	Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. <i>Chemical Society Reviews</i> , 2020, 49, 3863-3888.	18.7	77
5	Structural Basis of Ligand Binding to UDP-Galactopyranose Mutase from <i>Mycobacterium tuberculosis</i> Using Substrate and Tetrafluorinated Substrate Analogues. <i>Journal of the American Chemical Society</i> , 2015, 137, 1230-1244.	6.6	73
6	Benzotrifluoride and Derivatives: Useful Solvents for Organic Synthesis and Fluorous Synthesis. <i>Topics in Current Chemistry</i> , 1999, , 79-105.	4.0	67
7	Reducing the Lipophilicity of Perfluoroalkyl Groups by $CF_2=CF_2$ or CF_3/CH_3 Exchange. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10602-10618.	2.9	66
8	Invariant NKT Cells Promote CD8+ Cytotoxic T Cell Responses by Inducing CD70 Expression on Dendritic Cells. <i>Journal of Immunology</i> , 2008, 180, 4615-4620.	0.4	65
9	Fluorous Triphasic Reactions: Transportative Deprotection of Fluorous Silyl Ethers with Concomitant Purification. <i>Journal of the American Chemical Society</i> , 2001, 123, 10119-10120.	6.6	64
10	Tetrafluorination of Sugars as Strategy for Enhancing Protein-Carbohydrate Affinity: Application to UDP-Galactose 4-Epimerase Inhibition. <i>Chemistry - A European Journal</i> , 2014, 20, 106-112.	1.7	64
11	6-Deoxy-6-Deoxy-Galactose Analogues Capable of Inducing Strong CD1d-Mediated Th1-Biased NKT Cell Responses in Mice. <i>Journal of the American Chemical Society</i> , 2008, 130, 16468-16469.	6.6	62
12	Organic-Fluorous Phase Switches: A Fluorous Amine Scavenger for Purification in Solution Phase Parallel Synthesis. <i>Journal of Organic Chemistry</i> , 1999, 64, 2835-2842.	1.7	57
13	Enantioselective Synthesis of Tetrafluorinated Glucose and Galactose. <i>Organic Letters</i> , 2008, 10, 3673-3676.	2.4	57
14	Enantioselective Synthesis of Tetrafluoroethylene-Containing Monosaccharides. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5677-5679.	7.2	52
15	Plant cell wall imaging by metabolic click-mediated labelling of rhamnogalacturonan II using azido 3-deoxy-manno-2-ulonic acid. <i>Plant Journal</i> , 2016, 85, 437-447.	2.8	48
16	The synthesis of gemcitabine. <i>Carbohydrate Research</i> , 2014, 387, 59-73.	1.1	44
17	Intramolecular OH...F...Fluorine Hydrogen Bonding in Saturated, Acyclic Fluorohydrins: The β -Fluoropropanol Motif. <i>Chemistry - A European Journal</i> , 2015, 21, 17808-17816.	1.7	41
18	Microwave-Accelerated O-Alkylation of Carboxylic Acids with O-Alkylisoureas. <i>Organic Letters</i> , 2002, 4, 2961-2963.	2.4	40

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19	Polymer-Supported O-Alkylisoureas: A Useful Reagents for the O-Alkylation of Carboxylic Acids. <i>Journal of Organic Chemistry</i> , 2004, 69, 5897-5905.	1.7	40
20	Enantioselective synthesis of tetrafluorinated ribose and fructose. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 803.	1.5	39
21	Molecular Insights into DC-SIGN Binding to Self-Antigens: The Interaction with the Blood Group A/B Antigens. <i>ACS Chemical Biology</i> , 2019, 14, 1660-1671.	1.6	37
22	Synthesis of 2-oxazolines mediated by N,N'-diisopropylcarbodiimide. <i>Tetrahedron Letters</i> , 2004, 45, 9611-9615.	0.7	36
23	A Novel, Versatile D ⁺ BCD Steroid Construction Strategy, Illustrated by the Enantioselective Total Synthesis of Estrone. <i>Organic Letters</i> , 2010, 12, 680-683.	2.4	34
24	Unraveling Sugar Binding Modes to DC-SIGN by Employing Fluorinated Carbohydrates. <i>Molecules</i> , 2019, 24, 2337.	1.7	34
25	Cubane Electrochemistry: Direct Conversion of Cubane Carboxylic Acids to Alkoxy Cubanes Using the Hofmann-Löffler Reaction under Flow Conditions. <i>Chemistry - A European Journal</i> , 2020, 26, 374-378.	1.7	34
26	Synthesis and in vitro Evaluation of α -GalCer Epimers. <i>ChemMedChem</i> , 2008, 3, 1061-1070.	1.6	33
27	Polymer-Supported O-Methylisourea: A New Reagent for the O-Methylation of Carboxylic Acids. <i>Organic Letters</i> , 2002, 4, 1035-1037.	2.4	32
28	The conformation of tetrafluorinated methyl galactoside anomers: crystallographic and NMR studies. <i>Carbohydrate Research</i> , 2011, 346, 1129-1139.	1.1	32
29	Influence of Alcohol Fluorination on Hydrogen Bond Acidity of Conformationally Flexible Substrates. <i>Chemistry - A European Journal</i> , 2017, 23, 2811-2819.	1.7	31
30	Polymer-Supported O-Benzyl and O-Allylisoureas: Convenient Preparation and Use in Ester Synthesis from Carboxylic Acids. <i>Organic Letters</i> , 2003, 5, 853-856.	2.4	30
31	Synthesis and In Vivo Evaluation of 4-Deoxy-4,4-difluoro-KRN7000. <i>Organic Letters</i> , 2008, 10, 4433-4436.	2.4	30
32	Heavily fluorinated carbohydrates as enzyme substrates: oxidation of tetrafluorinated galactose by galactose oxidase. <i>Chemical Communications</i> , 2011, 47, 11228.	2.2	30
33	Microwave-Assisted Ester Formation Using O-Alkylisoureas: A Convenient Method for the Synthesis of Esters with Inversion of Configuration. <i>Journal of Organic Chemistry</i> , 2009, 74, 4753-4762.	1.7	29
34	Stereoselectivity of the Honda Reformatsky Reaction in Reactions with Ethyl Bromodifluoroacetate with α -Oxygenated Sulfinylimines. <i>Journal of Organic Chemistry</i> , 2014, 79, 4186-4195.	1.7	28
35	Minimising conformational bias in fluoroprolines through vicinal difluorination. <i>Chemical Communications</i> , 2018, 54, 5118-5121.	2.2	28
36	Divergent synthetic approach to α -modified α -GalCer analogues. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8413.	1.5	25

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37	Influence of Fluorination on the Conformational Properties and Hydrogen-Bond Acidity of Benzyl Alcohol Derivatives. <i>Chemistry - A European Journal</i> , 2015, 21, 11462-11474.	1.7	25
38	A mild, phosphine-free method for the conversion of alcohols into halides (Cl, Br, I) via the corresponding O-alkyl isoureas. <i>Tetrahedron Letters</i> , 2003, 44, 8143-8147.	0.7	24
39	A practical synthesis of a high-loading solid-supported IBX amide for the oxidation of alcohols. <i>Molecular Diversity</i> , 2005, 9, 341-351.	2.1	24
40	Total Synthesis of (±)-Paroxetine by Diastereoconvergent Cobalt-Catalysed Arylation. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4335-4341.	1.2	24
41	A Computational Study of Vicinal Fluorination in 2,3-Difluorobutane: Implications for Conformational Control in Alkane Chains. <i>Chemistry - A European Journal</i> , 2015, 21, 1682-1691.	1.7	24
42	The Synthesis and in vivo Evaluation of 2,2-Difluoro KRN7000. <i>ChemMedChem</i> , 2009, 4, 329-334.	1.6	21
43	Stereoarrays with an All-Carbon Quaternary Center: Diastereoselective Desymmetrization of Prochiral Malonaldehydes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1232-1235.	7.2	21
44	Introducing affinity and selectivity into galectin-targeting nanoparticles with fluorinated glycan ligands. <i>Chemical Science</i> , 2021, 12, 905-910.	3.7	21
45	Ready Synthetic Access to Enantiopure Allylic β -Branched Fluoroalkenes. <i>Organic Letters</i> , 2013, 15, 2450-2453.	2.4	20
46	Disubstituted Bis-THF Moieties as New P2 Ligands in Nonpeptidal HIV-1 Protease Inhibitors (II). <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4029-4038.	2.9	20
47	Enzymatic glycosylation involving fluorinated carbohydrates. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3423-3451.	1.5	20
48	The synthesis of CD-ring modified 1 β ,25-dihydroxy vitamin D analogues: Six-membered D-ring analogues I. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 1461-1464.	1.0	18
49	A convenient AIBN-initiated radical addition of ethyl iododifluoroacetate to alkenes. <i>Journal of Fluorine Chemistry</i> , 2008, 129, 986-990.	0.9	18
50	Stereoselective formation of (Z)-2-fluoroalkenoates via Julia-Kocienski reaction of aldehydes with pyrimidinyl-fluorosulfones. <i>Tetrahedron</i> , 2014, 70, 5632-5639.	1.0	17
51	Disubstituted Bis-THF Moieties as New P2 Ligands in Nonpeptidal HIV-1 Protease Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 461-465.	1.3	16
52	Effects of Sugar Functional Groups, Hydrophobicity, and Fluorination on Carbohydrate-DNA Stacking Interactions in Water. <i>Journal of Organic Chemistry</i> , 2014, 79, 2419-2429.	1.7	16
53	Enantioselective Synthesis of Dideoxy-tetrafluorinated Hexoses. <i>Journal of Organic Chemistry</i> , 2016, 81, 4434-4453.	1.7	16
54	Synthesis of 2,3,4-Trideoxy-2,3,4-trifluoroglucose. <i>Journal of Organic Chemistry</i> , 2019, 84, 5899-5906.	1.7	16

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55	Synthesis and Conformational Properties of 3,4-Difluoro-L-prolines. <i>Journal of Organic Chemistry</i> , 2019, 84, 3100-3120.	1.7	16
56	Efficient Desymmetrization of Pseudo-C ₂ -Symmetric Substrates: Illustration in the Synthesis of a Disubstituted Butenolide from Arabitol. <i>Journal of Organic Chemistry</i> , 2003, 68, 1821-1826.	1.7	15
57	The synthesis of mono- and difluorinated 2,3-dideoxy-d-glucopyranoses. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 92-96.	0.9	15
58	Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. <i>Cell Chemical Biology</i> , 2020, 27, 1199-1206.e5.	2.5	15
59	The Synthesis and Glycoside Formation of Polyfluorinated Carbohydrates. <i>Chemical Reviews</i> , 2022, 122, 15503-15602.	23.0	15
60	A Stereoselective Cyclization to Carba-furanose Derivatives Starting from 1,4-Bis-epoxides. <i>Organic Letters</i> , 2005, 7, 5183-5186.	2.4	14
61	Synthesis and Evaluation of Amino-Modified Î±-GalCer Analogues. <i>Organic Letters</i> , 2010, 12, 2928-2931.	2.4	14
62	A Study of Intramolecular Hydrogen Bonding in Levoglucosan Derivatives. <i>Molecules</i> , 2017, 22, 518.	1.7	14
63	A Linchpin Carbacyclization Approach for the Synthesis of Carbanucleosides. <i>Journal of Organic Chemistry</i> , 2008, 73, 9197-9206.	1.7	13
64	Lipophilicity trends upon fluorination of isopropyl, cyclopropyl and 3-oxetanyl groups. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2141-2150.	1.3	13
65	Decagram Synthesis of Dimethyl 1,4-Cubanedicarboxylate Using Continuous-Flow Photochemistry. <i>Synthesis</i> , 2021, 53, 1307-1314.	1.2	13
66	Rapid Screening of Diverse Biotransformations for Enzyme Evolution. <i>JACS Au</i> , 2021, 1, 508-516.	3.6	13
67	Microwaves, supported-reagents and parallel synthesis: Isocyanide and ester synthesis. <i>Molecular Diversity</i> , 2003, 7, 203-210.	2.1	12
68	Short Synthesis of Enantiopure C ₂ -Symmetric 1,2:4,5-Diepoxy-pentane and Pseudo-C ₂ -Symmetric 3-Azido-1,2:4,5-diepoxy-pentane from Arabitol. <i>Journal of Organic Chemistry</i> , 2003, 68, 8252-8255.	1.7	12
69	Fluoro-cresols: The Key Role of Intramolecular Hydrogen Bonding in Conformational Preference and Hydrogen-Bond Acidity. <i>ChemPhysChem</i> , 2016, 17, 2702-2709.	1.0	12
70	Transmembrane Exchange of Fluorosugars: Characterization of Red Cell GLUT1 Kinetics Using ¹⁹ F NMR. <i>Biophysical Journal</i> , 2018, 115, 1906-1919.	0.2	12
71	Skipped Fluorination Motifs: Synthesis of Building Blocks and Comparison of Lipophilicity Trends with Vicinal and Isolated Fluorination Motifs. <i>Journal of Organic Chemistry</i> , 2021, 86, 1882-1900.	1.7	12
72	Synthesis of Ortho-Functionalized 1,4-Cubanedicarboxylate Derivatives through Photochemical Chlorocarbonylation. <i>Organic Letters</i> , 2021, 23, 5164-5169.	2.4	12

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73	The synthesis of CD - ring modified 1 \pm ,25-dihydroxy vitamin D analogues: Six-membered D-ring analogues II. Bioorganic and Medicinal Chemistry Letters, 1997, 7, 1465-1468.	1.0	11
74	A novel stereoselective one-pot conversion of alcohols into alkyl halides mediated by N,N ϵ -diisopropylcarbodiimide. Chemical Communications, 2003, , 260-261.	2.2	11
75	Improved synthesis of enantiopure pseudo-C2-symmetric 1,4-bis-epoxide building blocks from arabitol. Tetrahedron: Asymmetry, 2005, 16, 2449-2453.	1.8	11
76	Dietary Phytosterols Protective Against Peptic Ulceration. Gastroenterology Research, 2011, 4, 149-156.	0.4	11
77	3,4-Dideoxy-3,3,4,4-tetrafluoro- and 4-OH epimeric 3-deoxy-3,3-difluoro-1 \pm -GalCer analogues: Synthesis and biological evaluation on human iNKT cells stimulation. European Journal of Medicinal Chemistry, 2019, 178, 195-213.	2.6	11
78	Full and partial differentiation of tris-1,1,1-(hydroxymethyl)ethane via direct and indirect methodology. Tetrahedron, 2004, 60, 3625-3636.	1.0	10
79	Decarboxylation of fluorosulfones for the preparation fluoroalkylidene precursors. Journal of Fluorine Chemistry, 2012, 134, 128-135.	0.9	10
80	Stereocontrol by Quaternary Centres: A Stereoselective Synthesis of (â ν)â€Luminacinâ€...D. Chemistry - A European Journal, 2014, 20, 3306-3310.	1.7	10
81	A linear synthesis of gemcitabine. Carbohydrate Research, 2015, 406, 71-75.	1.1	10
82	Relating Conformational Equilibria to Conformerâ€Specific Lipophilicities: New Opportunities in Drug Discovery. Angewandte Chemie - International Edition, 2022, 61, e202114862.	7.2	10
83	Synthesis of Heterocycles Using Polymer-Supported Reagents under Microwave Irradiation. Topics in Heterocyclic Chemistry, 2006, , 129-154.	0.2	8
84	The synthesis of the 2,3-difluorobutan-1,4-diol diastereomers. Beilstein Journal of Organic Chemistry, 2017, 13, 2883-2887.	1.3	8
85	Chemoenzymatic synthesis of 3-deoxy-3-fluoro- <i>l</i> -fucose and its enzymatic incorporation into glycoconjugates. Chemical Communications, 2020, 56, 6408-6411.	2.2	8
86	The Crystal Structure of 4,6-Di- <i>O</i> -Benzyl-2,3-Dideoxy-2,2,3,3-Tetrafluorogalactose. Journal of Carbohydrate Chemistry, 2011, 30, 618-625.	0.4	7
87	The synthesis of tetrafluorinated aminosugars. Journal of Fluorine Chemistry, 2015, 174, 95-101.	0.9	7
88	Synthesis of vicinal dideoxy-difluorinated galactoses. Organic and Biomolecular Chemistry, 2019, 17, 5331-5340.	1.5	7
89	Synthesis and Structural Characteristics of all Mono- and Difluorinated 4,6-Dideoxy- <i>d</i> -xylo- <i>h</i> -hexopyranoses. Journal of Organic Chemistry, 2021, 86, 7725-7756.	1.7	7
90	Synthesis and diastereoselective Dielsâ€Alder reactions of homochiral C2-symmetric butane-1,2-diacetal-based 1,3-dienes. Tetrahedron Letters, 2009, 50, 7144-7147.	0.7	6

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91	The development of a short route to the API ropinirole hydrochloride. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10532-10539.	1.5	6
92	An enantioselective desymmetrisation approach to C9-substituted trans-hydrindene rings based on a diastereotopic group-selective intramolecular Diels-Alder reaction. <i>Chemical Communications</i> , 2006, , 4909-4911.	2.2	5
93	Synthesis and crystallographic analysis of <i>meso</i> -2,3-difluoro-1,4-butanediol and <i>meso</i> -1,4-dibenzyloxy-2,3-difluorobutane. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 62.	1.3	5
94	Total Synthesis of (âˆ™)-Luminacin D. <i>Journal of Organic Chemistry</i> , 2016, 81, 3818-3837.	1.7	5
95	TRIS (perfluoroalkylethyl)silyl alkyl amines as calibration standards for electron ionization mass spectrometry in the mass range of 100â€“3000 Da. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1050-1054.	1.2	4
96	Enantioselective Synthesis and Selective Monofunctionalization of (4R,6R)-4,6-Dihydroxy-2,8-dioxabicyclo[3.3.0]octane. <i>Organic Letters</i> , 2006, 8, 5821-5824.	2.4	4
97	An enantioselective synthesis of carba-furanose sugars based on a linchpin carbocyclisation approach. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 821-831.	1.8	4
98	A New Straightforward Method for Lipophilicity (log <i>P</i>) Measurement using ¹⁹ F NMR Spectroscopy. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	4
99	1,1,1-Trifluoropropan-2-ammonium triflate enantiomers: stereoselective synthesis and direct use in reaction with epoxides. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 539-544.	1.8	3
100	Exploring anomeric glycosylation of phosphoric acid: Optimisation and scope for non-native substrates. <i>Carbohydrate Research</i> , 2020, 488, 107896.	1.1	3
101	Anomerisation of Fluorinated Sugars by Mutarotase Studied Using ¹⁹ F NMR Two-Dimensional Exchange Spectroscopy. <i>Australian Journal of Chemistry</i> , 2020, 73, 117.	0.5	3
102	Fluorine NMR study of proline-rich sequences using fluoroprolines. <i>Magnetic Resonance</i> , 2021, 2, 795-813.	0.8	3
103	Design of fluorinated 5-HT4R antagonists: Influence of the basicity and lipophilicity toward the 5-HT4R binding affinities. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7529-7538.	1.4	2
104	Conformational influence of fluorinated building blocks on the physical properties of polyesters. <i>Polymer</i> , 2019, 164, 134-141.	1.8	2
105	Influence of fluorination on alcohol hydrogen-bond donating properties. , 2019, , 301-324.		2
106	Isolation and characterisation of an unexpected byproduct in the regioselective butane diacetal protection of β -methyl galactopyranoside. <i>Carbohydrate Research</i> , 2018, 455, 14-17.	1.1	1
107	A Novel Stereoselective One-Pot Conversion of Alcohols into Alkyl Halides Mediated by N,N'-Diisopropylcarbodiimide.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
108	A Mild, Phosphine-Free Method for the Conversion of Alcohols into Halides (Cl, Br, I) via the Corresponding O-Alkyl Isoureas.. <i>ChemInform</i> , 2004, 35, no.	0.1	0

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109	Synthesis of 2-Oxazolines Mediated by N,N'-Diisopropylcarbodiimide.. ChemInform, 2005, 36, no.	0.1	0
110	Microwaveâ€Accelerated Oâ€Alkylation of Carboxylic Acids with Oâ€Alkylisoureas.. ChemInform, 2002, 33, 59-59.	0.1	0
111	Review of Mutarotase in â€Metabolic Subcultureâ€™ and Analytical Biochemistry: Prelude to 19F NMR Studies of its Substrate Specificity and Mechanism. Australian Journal of Chemistry, 2020, 73, 112.	0.5	0
112	Relating Conformational Equilibria to Conformerâ€Specific Lipophilicities: New Opportunities in Drug Discovery. Angewandte Chemie, 2022, 134, .	1.6	0