

Peer Kirsch

List of Publications by Year in descending order

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70
papers

4,813
citations

186265

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197818

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all docs

109
docs citations

109
times ranked

3477
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductance Switching in Liquid Crystal-Inspired Self-Assembled Monolayer Junctions. ACS Applied Materials & Interfaces, 2022, 14, 31044-31053.	8.0	1
2	Correlating Ultrafast Dynamics, Liquid Crystalline Phases, and Ambipolar Transport in Fluorinated Benzothiadiazole Dyes. Advanced Electronic Materials, 2021, 7, 2100186.	5.1	2
3	Thermal Stability of Phosphonic Acid Self-Assembled Monolayers on Alumina Substrates. Journal of Physical Chemistry C, 2020, 124, 2531-2542.	3.1	28
4	Synthesis of organic liquid crystals containing selectively fluorinated cyclopropanes. Beilstein Journal of Organic Chemistry, 2020, 16, 674-680.	2.2	9
5	The alignment of dichroic dyes in a nematic liquid crystal: a molecular dynamics investigation. Liquid Crystals, 2018, 45, 1377-1384.	2.2	11
6	Interplay between Long-Range Crystal Order and Short-Range Molecular Interactions Tunes Carrier Mobility in Liquid Crystal Dyes. ACS Applied Materials & Interfaces, 2017, 9, 6228-6236.	8.0	8
7	<i>C</i> ₃ -Symmetric Tricyclo[2.2.1.0 ^{2,6}]heptane-3,5,7-triol. Angewandte Chemie - International Edition, 2017, 56, 15456-15460.	13.8	9
8	Fluorinated Nematic Liquid Crystals. , 2016, , 159-176.		3
9	Fluorinated liquid crystals: evaluation of selectively fluorinated facially polarised cyclohexyl motifs for liquid crystal applications. Organic and Biomolecular Chemistry, 2016, 14, 9974-9980.	2.8	12
10	Fluorine in liquid crystal design for display applications. Journal of Fluorine Chemistry, 2015, 177, 29-36.	1.7	89
11	Preface to Special Issue "Fluorine in Soft Matter Science". Journal of Fluorine Chemistry, 2015, 177, 1.	1.7	0
12	Hypervalent Sulfur Fluorides and the Design of Liquid Crystals. Chimia, 2014, 68, 363.	0.6	16
13	The influence of vicinal threo-difluorination on electro-optic and mesogenic properties of propyleneoxy-linked nematic liquid crystals. Tetrahedron, 2014, 70, 4626-4630.	1.9	10
14	The TV in Your Pocket: Development of Liquid-Crystal Materials for the New Millennium. Angewandte Chemie - International Edition, 2013, 52, 8880-8896.	13.8	170
15	Efficient Preparations of Fluorine Compounds. Herausgegeben von Herbert W. Roesky. Angewandte Chemie, 2013, 125, 6028-6028.	2.0	0
16	Crystal design using multipolar electrostatic interactions: A concept study for organic electronics. Beilstein Journal of Organic Chemistry, 2013, 9, 2367-2373.	2.2	12
17	Fluorocyclohexanes: synthesis and structure of all-syn-1,2,4,5-tetrafluorocyclohexane. Chemical Communications, 2012, 48, 9643.	4.1	40
18	The preferred conformation of erythro- and threo-1,2-difluorocyclododecanes. Beilstein Journal of Organic Chemistry, 2012, 8, 1271-1278.	2.2	5

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19	Synthesis and structure of all-syn-1,2,3,4-tetrafluorocyclohexane. <i>Chemical Communications</i> , 2011, 47, 8265.	4.1	44
20	Alicyclic Ring Structure: Conformational Influence of the CF ₂ Group in Cyclododecanes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10581-10584.	13.8	28
21	Understanding Fluorine Effects in Liquid Crystals. <i>ChemPhysChem</i> , 2010, 11, 357-360.	2.1	51
22	Synthesis and Structure of Stereoisomeric Multivincinal Hexafluoroalkanes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5457-5460.	13.8	74
23	Diastereoselective Synthesis of 2,3,4,5,6-Pentafluoroheptanes. <i>Journal of Organic Chemistry</i> , 2009, 74, 7168-7171.	3.2	32
24	Superfluorinated Liquid Crystals: Towards the Limits of Polarity. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3479-3487.	2.4	40
25	Synthesis and analytical follow-up of the mineralization of a new fluorosurfactant prototype. <i>Chemosphere</i> , 2008, 72, 1534-1540.	8.2	25
26	The multi-vincinal fluoroalkane motif: an examination of 2,3,4,5-tetrafluorohexane stereoisomers. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3105.	2.8	24
27	Functional Compounds Based on Hypervalent Sulfur Fluorides. <i>ACS Symposium Series</i> , 2007, , 221-243.	0.5	21
28	Liquid crystals carrying stereodefined vicinal difluoro- and trifluoro- alkyl motifs. <i>Chemical Communications</i> , 2007, , 5075.	4.1	48
29	Synthesis and Conformation of Multi-vincinal Fluoroalkane Diastereoisomers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7887-7890.	13.8	50
30	Synthesis of New Enantiopure Fluorinated Phenylcyclopropanecarboxylates – Potential Chiral Dopants for Liquid-Crystal Compositions. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 141-148.	2.4	23
31	Liquid crystals with partially fluorinated side chains: Highly polar materials with very low birefringence. <i>Journal of Fluorine Chemistry</i> , 2007, 128, 1221-1226.	1.7	8
32	Cholestane-based liquid crystals containing a difluoroxyethylene bridge. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 146-149.	1.7	6
33	Liquid crystals based on hypervalent sulfur fluorides. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 610-619.	1.7	36
34	Liquid Crystals Based on Hypervalent Sulfur Fluorides: The trans-(Trifluoromethyl)tetrafluorosulfanyl Group. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1125-1131.	2.4	54
35	A Convenient Synthetic Route to Tetrahydropyran-Based Liquid Crystals. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3326-3331.	2.4	21
36	Liquid Crystals Based on Axially Fluorinated 1,3-Dioxanes: Synthesis, Properties and Computational Study. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4819-4824.	2.4	20

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37	Synthesis and Structural Characterization of Highly Fluorinated Sulfoximides and Sulfoximides as Functional Building Blocks for Materials Science. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 797-802.	2.4	47
38	Liquid Crystals Based on Hypervalent Sulfur Fluorides: Exploring the Steric Effects of ortho-Fluorine Substituents. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3095-3100.	2.4	58
39	Reductive dimerization of dithianylum salts and fluorodesulfuration: a new synthetic approach to tetrafluoroethylene substructures. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1025-1029.	1.7	9
40	Reductive Dimerization of Dithianylum Salts and Fluorodesulfuration: A New Synthetic Approach to Tetrafluoroethylene Substructures.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
41	Light-emitting materials based on liquid crystals. , 2004, , .		2
42	2-Trifluoromethyl-1,3-dithianylum Triflate: A Convenient "Masked" Electrophilic Pentafluoroethylation Reagent.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
43	2-Trifluoromethyl-1,3-dithianylum triflate: a convenient "masked" electrophilic pentafluoroethylation reagent. <i>Tetrahedron Letters</i> , 2003, 44, 5995-5998.	1.4	16
44	Fluorotrakis(trifluoromethylsulfonyl)methane: synthesis, characterization and reactivity. <i>Journal of Fluorine Chemistry</i> , 2003, 122, 233-236.	1.7	2
45	Combinatorial parallel synthesis and automated screening of a novel class of liquid crystalline materials. <i>Chemical Communications</i> , 2002, , 2762-2763.	4.1	17
46	Dithianylum Salts as Versatile Reagents for Organofluorine Chemistry: Fluorodesulfuration in the Presence of Various O- and N-Nucleophiles. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 3923-3926.	2.4	7
47	Nematic Liquid Crystals with a Tetrafluoroethylene Bridge in the Mesogenic Core Structure. <i>Journal of the American Chemical Society</i> , 2001, 123, 5414-5417.	13.7	63
48	Liquid crystals with multiple fluorinated bridges in the mesogenic core structure. <i>Journal of Fluorine Chemistry</i> , 2001, 112, 69-72.	1.7	42
49	Difluoroxyethylene-Bridged Liquid Crystals: A Novel Synthesis Based on the Oxidative Alkoxydifluorodesulfuration of Dithianylum Salts. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1480-1484.	13.8	83
50	Synthesis of a Mesogenic Compound with a Defined Conformation. <i>Synlett</i> , 2001, 2001, 0960-0963.	1.8	6
51	A Facile New Method for the Two-step Substitution of Hydroxy Groups in Primary Alcohols for Trifluoromethyl and Pentafluoroethyl Moieties. <i>Synlett</i> , 2001, 2001, 0379-0381.	1.8	28
52	Difluoroxyethylene-Bridged Liquid Crystals: A Novel Synthesis Based on the Oxidative Alkoxydifluorodesulfuration of Dithianylum Salts We thank A. Hahn and R. Sander for experimental assistance, and Dr. J. Krause, J. Haas, and H. Heldmann for the physical evaluation of the new substances. A part of the work presented in this article was performed under the management of the Association of Super-Advanced Electronics Industries (ASET) in the R&D program of the Japanese Ministry of International Trade and In. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1480-1484.	13.8	1
53	Nematic Liquid Crystals for Active Matrix Displays: Molecular Design and Synthesis. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4216-4235.	13.8	378
54	A simple route to hexamethylguanidinium fluoride. <i>Journal of Fluorine Chemistry</i> , 2000, 103, 159-161.	1.7	22

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55	Liquid Crystals with Pentafluorosulfuranyl as a Polar Terminal Group. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 29-33.	0.3	8
56	Materials for Liquid Crystal Displays with Reduced Power Consumption. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 193-199.	0.3	6
57	Synthesis, structure and reactivity of a trifluoromethyl sulfide anionic salt stabilized with tetrakis(dimethylamino)ethylene dication (TDAE2+). <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 2183-2185.	1.3	51
58	Nematic Liquid Crystals with Negative Dielectric Anisotropy: Molecular Design and Synthesis. <i>Synlett</i> , 1999, 1999, 389-396.	1.8	53
59	Liquid Crystals Based on Hypervalent Sulfur Fluorides: Pentafluorosulfuranyl as Polar Terminal Group. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1989-1992.	13.8	88
60	Design and synthesis of nematic liquid crystals with negative dielectric anisotropy. <i>Liquid Crystals</i> , 1999, 26, 449-452.	2.2	36
61	Different fluoride anion sources and (trifluoromethyl)trimethylsilane: molecular structure of tris(dimethylamino)sulfonium bis(trifluoromethyl)trimethylsiliconate, the first isolated pentacoordinate silicon species with five Si-C bonds. <i>Chemical Communications</i> , 1999, , 1017-1018.	4.1	56
62	Bis(4-nitrophenyl)tetrafluorosulfuranes: Synthesis, Isomerization and Structural Characterization. <i>Journal of the American Chemical Society</i> , 1999, 121, 11277-11280.	13.7	39
63	Novel Polar Liquid Crystals with Very Low Birefringence Based on trans-1,3-Dioxane Building Blocks. <i>Advanced Materials</i> , 1998, 10, 602-606.	21.0	28
64	A Novel Type of Liquid Crystals Based on Axially Fluorinated Cyclohexane Units. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 484-489.	13.8	57
65	Structure of Ions in Liquid-Crystalline Materials. <i>Materials Research Society Symposia Proceedings</i> , 1998, 508, 235.	0.1	18
66	Inhibition of Human Glutathione Reductase by 10-Arylisoalloxazines: Crystallographic, Kinetic, and Electrochemical Studies. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 1549-1554.	6.4	53
67	Synthesis and characterization of water-soluble and photolabile 10-arylisoalloxazines: Tools for studying the mechanism of action of flavin-type antimalarials. <i>Liebigs Annalen</i> , 1995, 1995, 1275-1281.	0.8	15
68	π - π interactions of flavins, 5. Syntheses, structures and physical properties of flavin systems with covalent bonding to π donors and π acceptors (quinones). <i>Liebigs Annalen</i> , 1995, 1995, 1827-1836.	0.8	5
69	Synthesis of N-acetylglucosaminyl asparagine-substituted puromycin analogues. <i>Bioorganic and Medicinal Chemistry</i> , 1995, 3, 1631-1636.	3.0	6
70	[3.3]Isoalloxazinophanes and Arene-Bridged Bis(isoalloxazines): Syntheses, Characterizations and Properties Related to Intramolecular Interactions. <i>Chemische Berichte</i> , 1994, 127, 1653-1665.	0.2	12