

# Peer Kirsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6714085/publications.pdf>

Version: 2024-02-01

70  
papers

4,813  
citations

186265

28  
h-index

197818

49  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nematic Liquid Crystals for Active Matrix Displays: Molecular Design and Synthesis. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4216-4235.	13.8	378
2	The TV in Your Pocket: Development of Liquid-Crystal Materials for the New Millennium. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8880-8896.	13.8	170
3	Fluorine in liquid crystal design for display applications. <i>Journal of Fluorine Chemistry</i> , 2015, 177, 29-36.	1.7	89
4	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
5	Difluorooxymethylene-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
6	Synthesis and Structure of Stereoisomeric Multivincinal Hexafluoroalkanes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5457-5460.	13.8	74
7	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
8	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
9	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
10	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
11	Liquid Crystals Based on Hypervalent Sulfur Fluorides: The trans-(Trifluoromethyl)tetrafluorosulfuranyl Group. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1125-1131.	2.4	54
12	Inhibition of Human Glutathione Reductase by 10-Arylisoalloxazines: A Crystallographic, Kinetic, and Electrochemical Studies. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 1549-1554.	6.4	53
13	Nematic Liquid Crystals with Negative Dielectric Anisotropy: Molecular Design and Synthesis. <i>Synlett</i> , 1999, 1999, 389-396.	1.8	53
14	Synthesis, structure and reactivity of a trifluoromethyl sulfide anionic salt stabilized with tetrakis(dimethylamino)ethylene dication (TDAE <sup>2+</sup> ). <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 2183-2185.	1.3	51
15	Understanding Fluorine Effects in Liquid Crystals. <i>ChemPhysChem</i> , 2010, 11, 357-360.	2.1	51
16	Synthesis and Conformation of Multivincinal Fluoroalkane Diastereoisomers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7887-7890.	13.8	50
17	Liquid crystals carrying stereodefined vicinal difluoro- and trifluoro- alkyl motifs. <i>Chemical Communications</i> , 2007, , 5075.	4.1	48
18	Synthesis and Structural Characterization of Highly Fluorinated Sulfimides and Sulfoximides as Functional Building Blocks for Materials Science. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 797-802.	2.4	47

#	ARTICLE	IF	CITATIONS
19	Synthesis and structure of all-syn-1,2,3,4-tetrafluorocyclohexane. <i>Chemical Communications</i> , 2011, 47, 8265.	4.1	44
20	Liquid crystals with multiple fluorinated bridges in the mesogenic core structure. <i>Journal of Fluorine Chemistry</i> , 2001, 112, 69-72.	1.7	42
21	Superfluorinated Liquid Crystals: Towards the Limits of Polarity. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3479-3487.	2.4	40
22	Fluorocyclohexanes: synthesis and structure of all-syn-1,2,4,5-tetrafluorocyclohexane. <i>Chemical Communications</i> , 2012, 48, 9643.	4.1	40
23	Bis(4-nitrophenyl)tetrafluorosulfuranes: Synthesis, Isomerization and Structural Characterization. <i>Journal of the American Chemical Society</i> , 1999, 121, 11277-11280.	13.7	39
24	Design and synthesis of nematic liquid crystals with negative dielectric anisotropy. <i>Liquid Crystals</i> , 1999, 26, 449-452.	2.2	36
25	Liquid crystals based on hypervalent sulfur fluorides. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 610-619.	1.7	36
26	Diastereoselective Synthesis of 2,3,4,5,6-Pentafluoroheptanes. <i>Journal of Organic Chemistry</i> , 2009, 74, 7168-7171.	3.2	32
27	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
28	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
29	Alicyclic Ring Structure: Conformational Influence of the CF <sub>2</sub> Group in Cyclododecanes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10581-10584.	13.8	28
30	Thermal Stability of Phosphonic Acid Self-Assembled Monolayers on Alumina Substrates. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2531-2542.	3.1	28
31	Synthesis and analytical follow-up of the mineralization of a new fluorosurfactant prototype. <i>Chemosphere</i> , 2008, 72, 1534-1540.	8.2	25
32	The multi-vicinal fluoroalkane motif: an examination of 2,3,4,5-tetrafluorohexane stereoisomers. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3105.	2.8	24
33	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
34	A simple route to hexamethylguanidinium fluoride. <i>Journal of Fluorine Chemistry</i> , 2000, 103, 159-161.	1.7	22
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	Functional Compounds Based on Hypervalent Sulfur Fluorides. <i>ACS Symposium Series</i> , 2007, , 221-243.	0.5	21

#	ARTICLE	IF	CITATIONS
37	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
38	Structure of Ions in Liquid-Crystalline Materials. <i>Materials Research Society Symposia Proceedings</i> , 1998, 508, 235.	0.1	18
39	Combinatorial parallel synthesis and automated screening of a novel class of liquid crystalline materials. <i>Chemical Communications</i> , 2002, , 2762-2763.	4.1	17
40	2-Trifluoromethyl-1,3-dithianylum triflate: a convenient "masked" electrophilic pentafluoroethylation reagent. <i>Tetrahedron Letters</i> , 2003, 44, 5995-5998.	1.4	16
41	Hypervalent Sulfur Fluorides and the Design of Liquid Crystals. <i>Chimia</i> , 2014, 68, 363.	0.6	16
42	Synthesis and characterization of water-soluble and photolabile 10-arylisalloxazines: Tools for studying the mechanism of action of flavin-type antimalarials. <i>Liebigs Annalen</i> , 1995, 1995, 1275-1281.	0.8	15
43	[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
44	Crystal design using multipolar electrostatic interactions: A concept study for organic electronics. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2367-2373.	2.2	12
45	Fluorinated liquid crystals: evaluation of selectively fluorinated facially polarised cyclohexyl motifs for liquid crystal applications. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9974-9980.	2.8	12
46	The alignment of dichroic dyes in a nematic liquid crystal: a molecular dynamics investigation. <i>Liquid Crystals</i> , 2018, 45, 1377-1384.	2.2	11
47	The influence of vicinal threo-difluorination on electro-optic and mesogenic properties of propyleneoxy-linked nematic liquid crystals. <i>Tetrahedron</i> , 2014, 70, 4626-4630.	1.9	10
48	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
49	C <sub>3</sub> -Symmetric Tricyclo[2.2.1.0 <sup>2,6</sup> ]heptane-3,5,7-triol. <i>Angewandte Chemie International Edition</i> , 2017, 56, 15456-15460.	13.8	9
50	Synthesis of organic liquid crystals containing selectively fluorinated cyclopropanes. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 674-680.	2.2	9
51	Liquid Crystals with Pentafluorosulfuranyl as a Polar Terminal Group. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 29-33.	0.3	8
52	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
53	Interplay between Long-Range Crystal Order and Short-Range Molecular Interactions Tunes Carrier Mobility in Liquid Crystal Dyes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6228-6236.	8.0	8
54	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

#	ARTICLE	IF	CITATIONS
55	Synthesis of N-acetylglucosaminyl asparagine-substituted puromycin analogues. <i>Bioorganic and Medicinal Chemistry</i> , 1995, 3, 1631-1636.	3.0	6
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 of a Mesogenic Compound with a Defined Conformation. <i>Synlett</i> , 2001, 2001, 0960-0963.	1.8	6
58	Cholestane-based liquid crystals containing a difluorooxymethylene bridge. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 146-149.	1.7	6
59	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
60	The preferred conformation of erythro- and threo-1,2-difluorocyclododecanes. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1271-1278.	2.2	5
61	Fluorinated Nematic Liquid Crystals. , 2016, , 159-176.		3
62	Fluorotris(trifluoromethylsulfonyl)methane: synthesis, characterization and reactivity. <i>Journal of Fluorine Chemistry</i> , 2003, 122, 233-236.	1.7	2
63	Light-emitting materials based on liquid crystals. , 2004, , .		2
64	Correlating Ultrafast Dynamics, Liquid Crystalline Phases, and Ambipolar Transport in Fluorinated Benzothiadiazole Dyes. <i>Advanced Electronic Materials</i> , 2021, 7, 2100186.	5.1	2
65	<a href="#">Difluorooxymethylene-Bridged Liquid Crystals: A Novel Synthesis Based on the Oxidative Alkoxydifluorodesulfuration of Dithianylum Salts</a> 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
66	Conductance Switching in Liquid Crystal-Inspired Self-Assembled Monolayer Junctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31044-31053.	8.0	1
67	2-Trifluoromethyl-1,3-dithianylum Triflate: A Convenient "Masked" Electrophilic Pentafluoroethylation Reagent.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
68	Reductive Dimerization of Dithianylum Salts and Fluorodesulfuration: A New Synthetic Approach to Tetrafluoroethylene Substructures.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
69	Efficient Preparations of Fluorine Compounds. Herausgegeben von Herbert W. Roesky.. <i>Angewandte Chemie</i> , 2013, 125, 6028-6028.	2.0	0
70	Preface to Special Issue "Fluorine in Soft Matter Science". <i>Journal of Fluorine Chemistry</i> , 2015, 177, 1.	1.7	0