## PrzemysÅ,aw Kula

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6158192/publications.pdf

Version: 2024-02-01

106	1,788	23	37
papers	citations	h-index	g-index
106	106	106	1180 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Deuterated Liquid Crystals – practical synthesis of deuterium labeled 4-alkyl-4″-isothiocyanato-[1,1ʹ:4ʹ,1″]terphenyls. Journal of Molecular Liquids, 2022, 345, 117847.	4.9	4
2	Realizing Persistent-Spin-Helix Lasing in the Regime of Rashba-Dresselhaus Spin-Orbit Coupling in a Dye-Filled Liquid-Crystal Optical Microcavity. Physical Review Applied, 2022, 17, .	3.8	7
3	Insight into cold- and melt crystallization phenomena of a smectogenic liquid crystal. CrystEngComm, 2022, 24, 3074-3087.	2.6	10
4	Fluorophenol-Containing Hydrogen-Bond Acidic Polysiloxane for Gas Sensing-Synthesis and Characterization. Polymers, 2022, 14, 1147.	4.5	0
5	Thermal, optical, and volumetric studies on mixing properties of binary nematic mixtures of 9CHBT/11CHBT. Journal of Molecular Liquids, 2022, 360, 119411.	4.9	1
6	Induction of the smectic A phase in liquid crystalline mixtures formulated using non-chiral compounds with positive and negative dielectric anisotropy. Phase Transitions, 2022, 95, 523-536.	1.3	3
7	Effect of high pressure on relaxation dynamics and crystallization kinetics of chiral liquid crystal in its smectic phase. Physical Chemistry Chemical Physics, 2021, 23, 17466-17478.	2.8	11
8	Observation of second-order meron polarization textures in optical microcavities. Optica, 2021, 8, 255.	9.3	28
9	Electro-Optical and Photo Stabilization Study of Nematic Ternary Mixture. Materials, 2021, 14, 2283.	2.9	6
10	Phase behaviour and crystal structures of 2′,3′-difluorinated <i>p</i> terphenyl derivatives. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 435-440.	0.5	2
11	Self-assembling behaviour of chiral calamitic monoacrylates targeted for polymer stabilisation of polar smectic phases in chiral liquid crystals. Journal of Molecular Liquids, 2021, 331, 115723.	4.9	16
12	Synthesis, Mesomorphism and the Optical Properties of Alkyl-deuterated Nematogenic 4-[(2,6-Difluorophenyl)ethynyl]biphenyls. Materials, 2021, 14, 4653.	2.9	3
13	Light-emitting high birefringence chlorinated bistolanes. Journal of Molecular Liquids, 2021, 341, 117267.	4.9	2
14	On the relaxation dynamics of a double glass-forming antiferroelectric liquid crystal. Physical Chemistry Chemical Physics, 2021, 23, 8673-8688.	2.8	19
15	Realizing Optical Persistent Spin Helix and Stern-Gerlach Deflection in an Anisotropic Liquid Crystal Microcavity. Physical Review Letters, 2021, 127, 190401.	7.8	14
16	New Ferroelectric Liquid Crystalline Materials with Properties Suitable for Surface Stabilized and Deformed Helix Effects. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2021, 21, 61-73.	0.1	3
17	Synthesis and mesomorphic properties of four ring, rod-like fluorene derivatives – the influence of the lateral substitution on mesomorphic properties of 2,7-bis(4-alkylphenyl)-fluorenes. Liquid Crystals, 2020, 47, 17-27.	2.2	12
18	Liquid crystals for IR: Part I – synthesis and properties of perfluoroalkyl or perfluoroalkoxy terminated oligophenyls. Liquid Crystals, 2020, 47, 2122-2143.	2.2	8

#	Article	IF	Citations
19	Liquid crystals for IR: Part II synthesis and properties of perfluoroalkyl- or perfluoroalkoxy-terminated tolanes. Liquid Crystals, 2020, 47, 2144-2160.	2.2	8
20	Molecular dynamics and cold crystallization process in a liquid-crystalline substance with para-, ferro- and antiferro-electric phases as studied by dielectric spectroscopy and scanning calorimetry. Journal of Molecular Liquids, 2020, 297, 111913.	4.9	23
21	Effect of fluorinated achiral chain length on structural, dielectric and electro-optic properties of two terphenyl based antiferroelectric liquid crystals. Journal of Molecular Liquids, 2020, 298, 112056.	4.9	11
22	Fast-response halogenated 4-alkyl-4′′-cyano-p-terphenyls as dual frequency addressing nematics. Fluid Phase Equilibria, 2020, 522, 112770.	2.5	14
23	Vibrational Dynamics of a Chiral Smectic Liquid Crystal Undergoing Vitrification and Cold Crystallization. Crystals, 2020, 10, 655.	2.2	17
24	The effect of partially fluorinated chain length on the mesomorphic properties of chiral 2',3'-difluoroterphenylates. Liquid Crystals, 2020, 47, 2332-2340.	2.2	4
25	Liquid Crystals for IR: Part III - Bi- and multicomponent mixtures based on perfluoroalkyl or perfluoroalkoxy terminated oligophenyls and tolanes. Liquid Crystals, 2020, 47, 2161-2170.	2.2	4
26	Orientation control of ideal blue phase photonic crystals. Scientific Reports, 2020, 10, 10148.	3.3	24
27	Pyrimidine-based ferroelectric mixtures – The influence of oligophenyl based chiral doping system. Journal of Molecular Liquids, 2020, 303, 112693.	4.9	10
28	Engineering spin-orbit synthetic Hamiltonians in liquid-crystal optical cavities. Science, 2019, 366, 727-730.	12.6	93
29	Relaxation dynamics and crystallization study of glass-forming chiral-nematic liquid crystal S,S-2,7-bis(4-pentylphenyl)-9,9-dimethylbutyl 9H-fluorene (5P-Am*FLAm*-P5). European Physical Journal E, 2019, 42, 121.	1.6	17
30	Multifrequency Driven Nematics. Crystals, 2019, 9, 275.	2.2	3
31	Memory effect in nematic phase of liquid crystal doped with magnetic and non-magnetic nanoparticles. Journal of Molecular Liquids, 2019, 282, 286-291.	4.9	24
32	Electro-Steering Tapered Fiber-Optic Device with Liquid Crystal Cladding. Journal of Sensors, 2019, 2019, 1-11.	1.1	5
33	On the balance between nematic and smectic phases in 2′,3′-difluoro-4,4″-dialkyl-p-terphenyls. Liquid Crystals, 2019, 46, 1558-1567.	2.2	13
34	Ultrafast electrical switching of nanostructured metadevice with dual-frequency liquid crystal. Scientific Reports, 2019, 9, 20367.	3.3	39
35	A new mesogenic fluorene derivative: 2,7-bis(4-pentylphenyl)-9,9-diethyl-9H-fluorene. Liquid Crystals, 2019, 46, 543-549.	2.2	5
36	Synthesis and mesomorphic properties of 4,4―dialkynyl-2',3'-difluoro-p-terphenyls – the influence of C≡C acetylene linking bridge. Liquid Crystals, 2019, 46, 618-628.	2,2	12

#	Article	IF	CITATIONS
37	Optical properties of cubic blue phase liquid crystal in photonic microstructures. Optics Express, 2019, 27, 14270.	3.4	10
38	Polarization properties of an optical fiber biconical taper with a liquid crystal cladding. , 2019, , .		0
39	Liquid crystal based tunable spurline filters with notch frequencies at 50 and 85 GHz. Microwave and Optical Technology Letters, 2018, 60, 672-679.	1.4	5
40	The influence of the dialkylphenyltolaneâ∈™s difluorosubstitution on mesomorphic and dielectric properties. Liquid Crystals, 2018, 45, 1460-1469.	2.2	19
41	A direct assessment of refractive indices of nematic liquid crystals at broad VIS - MWIR range. Liquid Crystals, 2018, 45, 703-714.	2.2	6
42	Molecular Ordering of Nematic Liquid Crystals in Tubular Nanopores: Tailoring of Optical Anisotropy at the Nanoscale by Polymer Pore-surface Grafting. , $2018$ , , .		0
43	Tunable optical spin Hall effect in a liquid crystal microcavity. Light: Science and Applications, 2018, 7, 74.	16.6	44
44	Interplay between Crystallization and Glass Transition in Nematic Liquid Crystal 2,7-Bis(4-pentylphenyl)-9,9-diethyl-9H-fluorene. Journal of Physical Chemistry B, 2018, 122, 10627-10636.	2.6	21
45	Application of retardation-modulation polarimetry in studies of nanocomposite materials. , 2018, , .		1
46	Refractive index matched liquid crystal cell for laser metrology application. Liquid Crystals, 2018, 45, 1690-1698.	2.2	3
47	Synthesis and properties of chosen 4-butyl-phenyltolane derivatives – On the influence of core substitution on birefringence, mesomorphic and dielectric properties. Journal of Molecular Liquids, 2018, 267, 511-519.	4.9	24
48	The influence of orienting layers on blue phase liquid crystals in rectangular geometries. Photonics Letters of Poland, 2018, 10, 100.	0.4	2
49	Design of new super-high birefringent isothiocyanato bistolanes – synthesis and properties. Liquid Crystals, 2017, 44, 1462-1467.	2.2	44
50	Solc filters in a reflective geometry. Journal of Optics (United Kingdom), 2017, 19, 045703.	2.2	3
51	Mid-wave infrared liquid crystal shutter for breathalyzer applications. Opto-electronics Review, 2017, 25, 103-109.	2.4	3
52	A ferroelectric liquid crystal confined in cylindrical nanopores: reversible smectic layer buckling, enhanced light rotation and extremely fast electro-optically active Goldstone excitations. Nanoscale, 2017, 9, 19086-19099.	5.6	22
53	Low aberration and fast switching microlenses based on a novel liquid crystal mixture. Optics Express, 2017, 25, 14795.	3.4	28
54	Investigation of Kerr effect in a blue phase liquid crystal using wedge-cell technique. Photonics Letters of Poland, 2017, 9, 54.	0.4	2

#	Article	IF	CITATIONS
55	Perdeuterated liquid crystals for near infrared applications. Optical Materials, 2016, 60, 209-213.	3.6	13
56	New low polar tolane cholesterics designed for infrared applications. RSC Advances, 2016, 6, 84231-84235.	3.6	5
57	Dielectric investigation of the liquid crystal compound with the directSmA*–SmC <sub>A</sub> * phase transition. Liquid Crystals, 2016, 43, 654-663.	2.2	7
58	High birefringence bistolane liquid crystals: synthesis and properties. RSC Advances, 2016, 6, 403-408.	3.6	46
59	Long Term Stability of Polymer Stabilized Blue Phase Liquid Crystals. Journal of Display Technology, 2015, 11, 703-708.	1.2	2
60	Hybrid Young interferometer for high resolution measurement of dynamic speckle using high birefringence liquid crystal. Proceedings of SPIE, 2015, , .	0.8	0
61	Properties of 2,3, and 2″,3″-difluorosubstituted 4″-alkyl[1,1′:4′,1″]terphenyl-4-yl alkyl carbonates phase. Phase Transitions, 2014, 87, 814-819.	with SmC 1.3	O
62	Synthesis and properties of new non-symmetric 2,5-bis(4-alkylphenylethynyl)thiophenes. Liquid Crystals, 2014, 41, 1647-1652.	2.2	16
63	NIR and MWIR transparent liquid crystals. , 2014, , .		3
64	Liquid crystalline blue phase in mixtures of fluorinated compounds with positive and negative dielectric anisotropy and its electro-optic performance. Liquid Crystals, 2014, 41, 15-24.	2.2	12
65	Birefringence, permittivity, elasticity and rotational viscosity of ambient temperature, high birefringent nematic liquid crystal mixtures. Liquid Crystals, 2014, 41, 591-596.	2.2	18
66	Synthesis and mesomorphic properties of laterally fluorinated alkyl $4\hat{a}\in^2\hat{a}\in^2$ -alkylterphenyl-4-yl carbonate liquid crystals. Journal of Materials Chemistry C, 2014, 2, 891-900.	5.5	17
67	Synthesis and mesomorphic properties of laterally substituted 4,4′′′-dialkyl-p-quaterphenyls. Liquid Crystals, 2014, 41, 503-513.	2.2	34
68	Terahertz properties of fluorinated liquid crystals. Liquid Crystals, 2013, 40, 1586-1590.	2.2	21
69	Spectroscopic investigation of the far-infrared properties of liquid crystals. , 2013, , .		O
70	On the influence of the chiral side linking bridge type upon the synclinic vs. anticlinic balance in the case of $2\hat{a} \in ^2$ , $3\hat{a} \in ^2$ -difluoroterphenyl derivatives. Liquid Crystals, 2013, 40, 256-266.	2.2	14
71	Novel high birefringent isothiocyanates based on quaterphenyl and phenylethynyltolane molecular cores. Liquid Crystals, 2013, 40, 1174-1182.	2.2	44
72	The synthesis and properties of fluoro-substituted analogues of 4-butyl-4′-[(4-butylphenyl)ethynyl]biphenyls. Liquid Crystals, 2013, 40, 482-491.	2.2	29

#	Article	IF	CITATIONS
73	Synthesis and properties of terphenyl- and quaterphenyl-based chiral diesters. Liquid Crystals, 2013, 40, 83-90.	2.2	31
74	The synthesis of chiral fluorinated 4-alkyl-4′-[(4-alkylphenyl)ethynyl]biphenyls. Tetrahedron Letters, 2013, 54, 3621-3623.	1.4	7
75	Compounds with low relaxation frequency and dual frequency mixtures useful for active matrix addressing. Liquid Crystals, 2013, 40, 1339-1353.	2.2	26
76	High Birefringence Liquid Crystals. Crystals, 2013, 3, 443-482.	2.2	218
77	Ultrabroadband terahertz spectroscopy of a liquid crystal. Optics Express, 2012, 20, 28249.	3.4	69
78	General synthesis method of alkyl–alkoxy multi-fluorotolanes for negative high birefringence nematic mixtures. Liquid Crystals, 2012, 39, 239-247.	2.2	41
79	X-ray diffraction and dielectric spectroscopy studies on a partially fluorinated ferroelectric liquid crystal from the family of terphenyl esters. Liquid Crystals, 2012, 39, 1196-1203.	2.2	26
80	Studies of Phase Diagram of a Liquid Crystal with 4-[2-(3-Fluorophenyl)ethyl]biphenyl Core of Molecules. Acta Physica Polonica A, 2012, 122, 370-374.	0.5	10
81	Determination of Order Parameters in Laterally Fluorosubstituted Terphenyls by sup > 19 / sup > F-NMR, Optical and Dielectric Anisotropies. Molecular Crystals and Liquid Crystals, 2011, 541, 104/[342]-117/[355].	0.9	9
82	Low absorption liquid crystals for mid-wave infrared applications. Optics Express, 2011, 19, 10843.	3.4	48
83	New Orthoconic Antiferroelectrics Useful for Applications. Ferroelectrics, 2010, 395, 116-132.	0.6	39
84	Synthesis of New Chiral Smectic Mesogenes with 4-(2-Phenylethyl)biphenyl and 4-[2-(3-Fluorophenyl)ethyl]biphenyl Molecular Cores. Synlett, 2010, 2010, 1394-1396.	1.8	7
85	Dielectric properties of selected laterally fluoro-substituted 4,4′′-dialkyl, dialkoxy and alkyl-alkoxy [1:1′;4′:1′′]terphenyls. Liquid Crystals, 2010, 37, 1321-1330.	2.2	19
86	High Birefringence and Low Viscosity Liquid Crystals with Negative Dielectric Anisotropy. Molecular Crystals and Liquid Crystals, 2009, 509, 47/[789]-59/[801].	0.9	10
87	Powdered activated carbon and carbon paste electrodes: comparison of electrochemical behaviour. Journal of Applied Electrochemistry, 2009, 39, 593-600.	2.9	5
88	Mesomorphic and dielectric properties of esters useful for formulation of nematic mixtures for dual frequency addressing system. Opto-electronics Review, 2009, 17, .	2.4	17
89	Modification of High Tilted Antiferroelectric Mixture for Display Applications. Molecular Crystals and Liquid Crystals, 2009, 509, 336/[1078]-348/[1090].	0.9	7
90	66.1: High Birefringence and Negative Dielectric Anisotropy Liquid Crystal Mixtures for Vertical Alignment Applications. Digest of Technical Papers SID International Symposium, 2009, 40, 992-995.	0.3	0

#	Article	IF	CITATIONS
91	Mesomorphic, dielectric, and optical properties of fluorosubstituted biphenyls, terphenyls, and quaterphenyls. Opto-electronics Review, 2008, 16, .	2.4	36
92	High birefringence and low viscosity negative dielectric anisotropy liquid crystals. Liquid Crystals, 2008, 35, 1401-1408.	2.2	22
93	High birefringence liquid crystalline materials. , 2008, , .		O
94	An Influence of a Single Fluorine Atom Position in the Molecular Rigid Core on Physical Properties of Orthoconic Antiferroelectric Liquid Crystal. Ferroelectrics, 2008, 365, 78-87.	0.6	23
95	UV Dichroism in Vertically Aligned Nematic Displays. Molecular Crystals and Liquid Crystals, 2008, 494, 205-212.	0.9	1
96	Orthoconic antiferroelectric liquid crystals containing a terphenyl rigid core. Phase Transitions, 2007, 80, 771-780.	1.3	24
97	See-through Passive Antiferroelectric Helmet-Mounted Liquid Crystal Display. , 2007, , .		O
98	X-ray Investigation of Smectic Layers in Homologous Series of Chiral Three Ring Esters. Molecular Crystals and Liquid Crystals, 2007, 475, 137-149.	0.9	5
99	Orthoconic antiferroelectric liquid crystals containing biphenyl, terphenyl, or naphthyl mesogenic unit. Opto-electronics Review, 2007, 15, .	2.4	22
100	A 4k projection display for D-cinema, medical imaging and simulation. , 2007, , .		0
101	New Antiferroelectric Compounds from Chiral Terphenyls. Ferroelectrics, 2006, 343, 19-26.	0.6	28
102	Optical microscopy, DSC and dielectric relaxation spectroscopy studies on a partially fluorinated ferroelectric liquid crystalline compound MHPO(13F)BC. Phase Transitions, 2006, 79, 223-235.	1.3	29
103	The Role of Alignment Layers on the Induced Relaxation of Passively Multiplexed Antiferroelectric Liquid Crystal Displays. Molecular Crystals and Liquid Crystals, 2005, 433, 207-216.	0.9	2
104	Orthoconic antiferroelectric liquid crystalline materials. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Ove	erlock 10 T	Tf 50 222 Td (
105	Non-conventional Alignment Surfaces for Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2004, 422, 37-45.	0.9	10
106	<title>Thermodynamic studies of induced antiferroelectric phases in chiral and racemic systems</title> ., 2004,,.		O