

Robert J Twieg

List of Publications by Year in descending order

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1168
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorinated triphenylenes and a path to short tailed discotic liquid crystals: synthesis, structure and transport properties. <i>Materials Advances</i> , 2022, 3, 534-546.	5.4	10
2	Multiple ferroelectric nematic phases of a highly polar liquid crystal compound. <i>Liquid Crystals</i> , 2022, 49, 1784-1796.	2.2	39
3	Influence of multifluorophenoxy terminus on the mesomorphism of the alkoxy and alkyl cyanobiphenyl compounds in search of new ambient nematic liquid crystals and mixtures. <i>Liquid Crystals</i> , 2021, 48, 672-688.	2.2	8
4	Designing chemically selective liquid crystalline materials that respond to oxidizing gases. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6507-6517.	5.5	9
5	Design of Chemoresponsive Soft Matter Using Hydrogen-Bonded Liquid Crystals. <i>Materials</i> , 2021, 14, 1055.	2.9	4
6	Synthesis and liquid crystalline studies of biphenyl-1,3,4-thiadiazoles and diphenyl-1,3,4-thiadiazoles: influence of side chain semifluorination and lateral ring fluorination. <i>Liquid Crystals</i> , 2021, 48, 1758-1768.	2.2	2
7	Synthesis and Characterization of Novel Bio-Chiral Dopants Obtained from Bio-Betulin Produced by a Fermentation Process. <i>Crystals</i> , 2021, 11, 785.	2.2	5
8	Synthesis and properties of fluorine tail-terminated cyanobiphenyls and terphenyls for chemoresponsive liquid crystals. <i>Liquid Crystals</i> , 2020, 47, 3-16.	2.2	17
9	New room temperature nematogens by cyano tail termination of alkoxy and alkylcyanobiphenyls and their anchoring behavior on metal salt-decorated surface. <i>Liquid Crystals</i> , 2020, 47, 540-556.	2.2	10
10	Enhancing charge mobilities in self-assembled Nâ€¹ halogen bonded organic semiconductors: A design approach based on experimental and computational perspectives. <i>Organic Electronics</i> , 2020, 79, 105637.	2.6	3
11	Synthesis and properties of hydroxy tail-terminated cyanobiphenyl liquid crystals. <i>Liquid Crystals</i> , 2019, 46, 397-407.	2.2	22
12	The synthesis of [1,2,3]-triazole-based bent core liquid crystals via microwave-mediated â€œClick Reactionâ€™ and their mesomorphic behaviour. <i>Liquid Crystals</i> , 2019, 46, 257-271.	2.2	14
13	Amplification of Elementary Surface Reaction Steps on Transition Metal Surfaces Using Liquid Crystals: Dissociative Adsorption and Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2019, 141, 16003-16013.	13.7	18
14	Dispersion of Thirdâ€™ Harmonic Generation in Organic Cavity Polaritons. <i>Advanced Optical Materials</i> , 2019, 7, 1801682.	7.3	24
15	Biphenyl-1,2,4-oxadiazole based liquid crystals â€™ synthesis, mesomorphism, effect of lateral monofluorination. <i>Liquid Crystals</i> , 2019, 46, 2281-2290.	2.2	9
16	Enhancing charge mobilities in selectively fluorinated oligophenyl organic semiconductors: a design approach based on experimental and computational perspectives. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3881-3888.	5.5	16
17	The synthesis of 1-biphenyl-4-alkyl-[1,2,3]-triazoles and their mesomorphic behaviour. <i>Liquid Crystals</i> , 2019, 46, 1214-1223.	2.2	5
18	Computational Chemistryâ€™ Guided Design of Selective Chemoresponsive Liquid Crystals Using Pyridine and Pyrimidine Functional Groups. <i>Advanced Functional Materials</i> , 2018, 28, 1703581.	14.9	27

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19	Tuning charge carrier transport and optical birefringence in liquid-crystalline thin films: A new design space for organic light-emitting diodes. <i>Scientific Reports</i> , 2018, 8, 699.	3.3	26
20	2-(4-Biphenyl)-1,3,4-oxadiazoles: synthesis and mesogenic studies. <i>Liquid Crystals</i> , 2018, 45, 1508-1517.	2.2	7
21	The role of anions in adsorbate-induced anchoring transitions of liquid crystals on surfaces with discrete cation binding sites. <i>Soft Matter</i> , 2018, 14, 797-805.	2.7	27
22	Mesogenic 3,6-bis(4-hydroxyphenyl)-1,2,4,5-tetrazine alkanooate esters. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 665, 82-90.	0.9	4
23	Liquid Crystals with Interfacial Ordering that Enhances Responsiveness to Chemical Targets. <i>Advanced Materials</i> , 2018, 30, e1706707.	21.0	43
24	Redox-Triggered Orientational Responses of Liquid Crystals to Chlorine Gas. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9665-9669.	13.8	39
25	Redox-Triggered Orientational Responses of Liquid Crystals to Chlorine Gas. <i>Angewandte Chemie</i> , 2018, 130, 9813-9817.	2.0	11
26	Design of Chemoresponsive Liquid Crystals through Integration of Computational Chemistry and Experimental Studies. <i>Chemistry of Materials</i> , 2017, 29, 3563-3571.	6.7	33
27	Enhancing charge mobilities in organic semiconductors by selective fluorination: a design approach based on a quantum mechanical perspective. <i>Chemical Science</i> , 2017, 8, 6947-6953.	7.4	20
28	Photocyclodehydrofluorination. <i>Chemistry - A European Journal</i> , 2015, 21, 15534-15539.	3.3	61
29	Properties of the broad-range nematic phase of a laterally linked H-shaped liquid crystal dimer. <i>Liquid Crystals</i> , 2014, 41, 1345-1355.	2.2	21
30	5,5-Bis-(alkylpyridinyl)-2,2-bithiophenes: synthesis, liquid crystalline behaviour and charge transport. <i>Journal of Materials Chemistry C</i> , 2014, 2, 256-271.	5.5	9
31	Bis(5-alkylthiophen-2-yl)arene liquid crystals as molecular semiconductors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2600.	5.5	16
32	Liquid Crystalline Symmetrical 3,6-Diaryl-1,2,4,5-Tetrazines. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 582, 34-42.	0.9	8
33	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. <i>Journal of Applied Physics</i> , 2011, 109, 043505-043505-5.	2.5	342
34	Diphenyl-1,3,4-oxadiazoles: synthesis and influence of side chain semifluorination and lateral ring fluorination on liquid crystalline properties. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-12.	0.9	1