

Mohamed A Alaasar

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Azobenzene-containing bent-core liquid crystals: an overview. <i>Liquid Crystals</i> , 2016, 43, 2208-2243.	0.9	90
2	A Liquid Crystalline Phase with Uniform Tilt, Local Polar Order and Capability of Symmetry Breaking. <i>Advanced Materials</i> , 2013, 25, 2186-2191.	11.1	79
3	4-Cyanoresorcinol-Based Bent-Core Mesogens with Azobenzene Wings: Emergence of Sterically Stabilized Polar Order in Liquid Crystalline Phases. <i>Advanced Functional Materials</i> , 2014, 24, 1703-1717.	7.8	62
4	Helical Nano-Crystallite (HNC) Phases: Chirality Synchronization of Achiral Bent-Core Mesogens in a New Type of Dark Conglomerates. <i>Chemistry - A European Journal</i> , 2016, 22, 6583-6597.	1.7	59
5	4-Methylresorcinol based bent-core liquid crystals with azobenzene wings – a new class of compounds with dark conglomerate phases. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5487-5501.	2.7	56
6	Influence of halogen substituent on the mesomorphic properties of five-ring banana-shaped molecules with azobenzene wings. <i>Liquid Crystals</i> , 2013, 40, 656-668.	0.9	54
7	Hydrogen-bonded supramolecular complexes formed between isophthalic acid and pyridine-based derivatives. <i>Liquid Crystals</i> , 2011, 38, 925-934.	0.9	50
8	Dark conglomerate phases of azobenzene derived bent-core mesogens – relationships between the molecular structure and mirror symmetry breaking in soft matter. <i>Soft Matter</i> , 2014, 10, 7285-7296.	1.2	48
9	Isothermal Chirality Switching in Liquid-Crystalline Azobenzene Compounds with Non-Polarized Light. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10801-10805.	7.2	45
10	Supramolecular Hydrogen-Bonded Liquid Crystals Formed from 4-(4-Pyridylazophenyl)-4-alkoxy Benzoates and 4-Substituted Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 487, 74-91.	0.4	43
11	Mirror symmetry breaking in cubic phases and isotropic liquids driven by hydrogen bonding. <i>Chemical Communications</i> , 2016, 52, 13869-13872.	2.2	43
12	Photoresponsive halogen bonded polycatenar liquid crystals. <i>Journal of Molecular Liquids</i> , 2019, 277, 233-240.	2.3	38
13	New azobenzene containing bent-core liquid crystals based on disubstituted resorcinol. <i>Liquid Crystals</i> , 2014, 41, 126-136.	0.9	37
14	Wide nematic phases induced by hydrogen-bonding. <i>Liquid Crystals</i> , 2019, 46, 550-559.	0.9	37
15	Spontaneous Mirror-Symmetry Breaking in Isotropic Liquid Phases of Photoisomerizable Achiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 312-316.	7.2	36
16	Development of Polar Order by Liquid-Crystal Self-Assembly of Weakly Bent Molecules. <i>Chemistry - A European Journal</i> , 2017, 23, 5541-5556.	1.7	34
17	Polar Order, Mirror Symmetry Breaking, and Photoswitching of Chirality and Polarity in Functional Bent-Core Mesogens. <i>Chemistry - A European Journal</i> , 2019, 25, 6362-6377.	1.7	31
18	A new room temperature dark conglomerate mesophase formed by bent-core molecules combining 4-iodoresorcinol with azobenzene units. <i>Chemical Communications</i> , 2013, 49, 11062.	2.2	30

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19	Supramolecular Hydrogen-Bonded Liquid Crystals Formed from 4-(4-Pyridylazophenyl)-4-Substituted Benzoates and 4-Alkoxybenzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 482, 57-70.	0.4	29
20	Molecular Packing in Double Gyroid Cubic Phases Revealed via Resonant Soft X-Ray Scattering. <i>Physical Review Letters</i> , 2020, 125, 027801.	2.9	29
21	Novel hydrogen-bonded angular supramolecular liquid crystals. <i>Liquid Crystals</i> , 2012, 39, 47-61.	0.9	28
22	Development of Polar Order in the Liquid Crystal Phases of a 4-Cyanoresorcinol-Based Bent-Core Mesogen with Fluorinated Azobenzene Wings. <i>ChemPhysChem</i> , 2016, 17, 278-287.	1.0	28
23	Liquid crystalline self-assembly of 2,5-diphenyl-1,3,4-oxadiazole based bent-core molecules and the influence of carbosilane end-groups. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3064-3081.	2.7	26
24	Mirror symmetry breaking in fluorinated bent-core mesogens. <i>RSC Advances</i> , 2016, 6, 82890-82899.	1.7	25
25	Cybotactic nematic phases of photoisomerisable hockey-stick liquid crystals. <i>Liquid Crystals</i> , 2017, 44, 729-737.	0.9	25
26	Cluster phases of 4-cyanoresorcinol derived hockey-stick liquid crystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8454-8468.	2.7	23
27	Stereochemical Rules Govern the Soft Self-Assembly of Achiral Compounds: Understanding the Heliconical Liquid-Crystalline Phases of Bent-Core Mesogens. <i>Chemistry - A European Journal</i> , 2020, 26, 4714-4733.	1.7	23
28	Effective tuning of optical storage devices using photosensitive bent-core liquid crystals. <i>Journal of Molecular Liquids</i> , 2020, 304, 112719.	2.3	22
29	Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. <i>Soft Matter</i> , 2014, 10, 5003-5016.	1.2	20
30	Nematic phases driven by hydrogen-bonding in liquid crystalline nonsymmetric dimers. <i>Liquid Crystals</i> , 2019, 46, 124-130.	0.9	20
31	Supramolecular Liquid Crystals Induced by Hydrogen-Bonding Interactions Between Non-Mesomorphic Compounds. I. 4-(4-Pyridylazophenyl)-4-Substituted Benzoates and 4-Substituted Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 506, 22-33.	0.4	19
32	Emergence of polar order and tilt in terephthalate based bent-core liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5895-5905.	1.3	19
33	Mirror Symmetry Breaking and Network Formation in Achiral Polycatenars with Thioether Tail. <i>Chemistry - A European Journal</i> , 2021, 27, 14921-14930.	1.7	17
34	Supramolecular liquid crystals in binary and ternary systems. <i>Thermochimica Acta</i> , 2011, 517, 63-73.	1.2	16
35	Effect of exchange of terminal substituents on the mesophase behavior of laterally methyl substituted phenyl azo benzoates in pure and mixed systems. <i>Thermochimica Acta</i> , 2011, 525, 78-86.	1.2	15
36	Supramolecular <i>meso</i> -Trick: Ambidextrous Mirror Symmetry Breaking in a Liquid Crystalline Network with Tetragonal Symmetry. <i>Journal of the American Chemical Society</i> , 2022, 144, 6936-6945.	6.6	15

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37	Controlling liquid and liquid crystalline network formation by core-fluorination of hydrogen bonded supramolecular polycatenars. <i>Journal of Molecular Liquids</i> , 2021, 332, 115870.	2.3	14
38	Isothermal Chirality Switching in Liquid-Crystalline Azobenzene Compounds with Non-Polarized Light. <i>Angewandte Chemie</i> , 2017, 129, 10941-10945.	1.6	13
39	Y-shaped tricatena azobenzenes functional liquid crystals with synclitic-anticlinc transitions and spontaneous helix formation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12902-12916.	2.7	13
40	Azobenzene-based supramolecular liquid crystals: The role of core fluorination. <i>Journal of Molecular Liquids</i> , 2020, 310, 113252.	2.3	13
41	Effect of lateral substitution of different polarity on the mesophase behaviour in pure and mixed states of 4-(4-substituted phenylazo)-2-substituted phenyl-4-alkoxy benzoates. <i>Liquid Crystals</i> , 2011, 38, 391-405.	0.9	12
42	2,3,4-Trihydroxy benzonitrile-based liquid crystals: Fiber forming room temperature nematic phases. <i>Journal of Molecular Liquids</i> , 2020, 317, 114244.	2.3	12
43	Investigation of the heliconical smectic S_C phase in achiral bent-core mesogens derived from 4-cyanoresorcinol. <i>Physical Review Materials</i> , 2019, 3, 031101.	0.9	10
44	Photosensitive bent-core liquid crystals based on methyl substituted 3-hydroxybenzoic acid. <i>RSC Advances</i> , 2017, 7, 35805-35813.	1.7	9
45	Cybotactic nematic phases with wide ranges in photoresponsive polycatenars. <i>Liquid Crystals</i> , 2020, 47, 939-949.	0.9	9
46	Controlling the formation of heliconical smectic phases by molecular design of achiral bent-core molecules. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3316-3336.	2.7	9
47	Azobenzene-based polycatenars: Investigation on photo switching properties and optical storage devices. <i>Journal of Molecular Liquids</i> , 2021, 341, 117341.	2.3	7
48	Controlling ambidextrous mirror symmetry breaking in photosensitive supramolecular polycatenars by alkyl-chain engineering. <i>Journal of Molecular Liquids</i> , 2022, 351, 118597.	2.3	7
49	Photomanipulation of the Mechanical Properties in a Liquid Crystal with Azo-Containing Bent-Core Mesogens. <i>ChemPhotoChem</i> , 2020, 4, 5288-5295.	1.5	5
50	Possibility of mesophase formation in some model compounds based on the N-aryl benzamide group. <i>Thermochimica Acta</i> , 2007, 459, 40-57.	1.2	4
51	Novel green synthetic approach for liquid crystalline materials using multi-component reactions. <i>Journal of Molecular Liquids</i> , 2022, 346, 118244.	2.3	4
52	Non-symmetric ether-linked liquid crystalline dimers with a highly polar end group. <i>Liquid Crystals</i> , 0, 1-7.	0.9	3
53	Hockey-Stick Polycatenars: Network formation and transition from one dimensional to three-dimensional liquid crystalline phases. <i>Journal of Molecular Liquids</i> , 2022, 351, 118613.	2.3	3
54	The influences of lateral groups on 4-cyanobiphenyl-benzonitrile- based dimers. <i>Liquid Crystals</i> , 2022, 49, 217-229.	0.9	2