

Ammathnadu S Achalkumar

List of Publications by Year in descending order

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64
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172207

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#	ARTICLE	IF	CITATIONS
1	Luminescent, Liquid Crystalline Tris(<i>N</i> -salicylideneaniline)s: Synthesis and Characterization. <i>Journal of Organic Chemistry</i> , 2009, 74, 3168-3171.	1.7	85
2	Functional Ionic Liquid Crystals. <i>Langmuir</i> , 2020, 36, 11702-11731.	1.6	82
3	Columnar self-assembly of star-shaped luminescent oxadiazole and thiadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2940-2952.	2.7	79
4	Frustrated Liquid Crystals: Synthesis and Mesomorphic Behavior of Unsymmetrical Dimers Possessing Chiral and Fluorescent Entities. <i>Chemistry of Materials</i> , 2007, 19, 2463-2472.	3.2	77
5	A New Class of Discotic Mesogens Derived from Tris(<i>N</i> -salicylideneaniline)s Existing in <i>C</i> ₃ <i>h</i> and <i>C</i> _s Keto-Enamine Forms. <i>Journal of Organic Chemistry</i> , 2007, 72, 8308-8318.	1.7	74
6	Perylene-Based Liquid Crystals as Materials for Organic Electronics Applications. <i>Langmuir</i> , 2019, 35, 2455-2479.	1.6	73
7	Self-Assembly of Hekates-Tris(<i>N</i> -salicylideneaniline)s into Columnar Structures: Synthesis and Characterization. <i>Journal of Organic Chemistry</i> , 2013, 78, 527-544.	1.7	69
8	Self-Assembly of <i>C</i> ₃ <i>h</i> and <i>C</i> _s Symmetric Keto-enamine Forms of Tris(<i>N</i> -salicylideneanilines) into Columnar Phases: A New Family of Discotic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 6506-6507.	1.6	66
9	Aromatic "I" driven supergelation, aggregation induced emission and columnar self-assembly of star-shaped 1,2,4-oxadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6546-6561.	2.7	56
10	Star-shaped fluorescent liquid crystals derived from s-triazine and 1,3,4-oxadiazole moieties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6117-6130.	2.7	51
11	Perylo[1,12- <i>b</i> , <i>c</i> , <i>d</i>] Thiophene Tetraesters: A New Class of Luminescent Columnar Liquid Crystals. <i>Langmuir</i> , 2015, 31, 8092-8100.	1.6	46
12	A sensitive and selective sensor for picric acid detection with a fluorescence switching response. <i>New Journal of Chemistry</i> , 2018, 42, 5382-5394.	1.4	46
13	Multifunctional hexacatenar mesogen exhibiting supergelation, AIEE and its ability as a potential volatile acid sensor. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9669-9673.	2.7	45
14	Self-assembly of luminescent <i>N</i> -annulated perylene tetraesters into fluid columnar phases. <i>Soft Matter</i> , 2015, 11, 3629-3636.	1.2	44
15	Tuning the self-assembly and photophysical properties of bi-1,3,4-thiadiazole derivatives through electron donor-acceptor interactions and their application in OLEDs. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9345-9358.	2.7	44
16	Electroluminescent room temperature columnar liquid crystals based on bay-annulated perylene tetraesters. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1767-1781.	2.7	42
17	Columnar Self-Assembly of Electron-Deficient Dendronized Bay-Annulated Perylene Bisimides. <i>Chemistry - A European Journal</i> , 2018, 24, 3566-3575.	1.7	42
18	Liquid Crystal Abrikosov Flux Phase: The Exclusive Wide Thermal Range Enantiotropic Occurrence. <i>Chemistry of Materials</i> , 2006, 18, 1076-1078.	3.2	41

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19	The first examples of optically active tris(N-salicylideneaniline)s: manifestation of chirality from molecules to fluid columnar phases. <i>Journal of Materials Chemistry</i> , 2007, 17, 4521.	6.7	41
20	Effect of regioisomerism on the self-assembly and photophysical behavior of 1,3,4-thiadiazole-based polycatenars. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8166-8182.	2.7	40
21	Cholesterol-based anchors and tethers for phospholipid bilayers and for model biological membranes. <i>Soft Matter</i> , 2010, 6, 6036.	1.2	39
22	Tunable Chiral Reaction Media Based on Two-Component Liquid Crystals: Regio-, Diastereo-, and Enantiocontrolled Photodimerization of Anthracenecarboxylic Acids. <i>Journal of the American Chemical Society</i> , 2010, 132, 17435-17446.	6.6	38
23	Helical supramolecular polymers with rationally designed binding sites for chiral guest recognition. <i>Nature Communications</i> , 2020, 11, 2311.	5.8	37
24	Non-symmetric dimers comprising chalcone and cholesterol entities: an investigation on structure-property correlations. <i>New Journal of Chemistry</i> , 2014, 38, 4235-4248.	1.4	35
25	The first examples of discotic radicals: columnar mesomorphism in spin-carrying triphenylenes. <i>Journal of Materials Chemistry</i> , 2008, 18, 3433.	6.7	34
26	Monodisperse Linear Supermolecules Stabilizing Unusual Fluid Layered Phases. <i>Organic Letters</i> , 2007, 9, 2641-2644.	2.4	33
27	Heteroatom Bay-Annulated Perylene Bisimides: New Materials for Organic Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1378-1386.	2.0	31
28	Bay-Annulated Perylene Tetraesters: A New Class of Discotic Liquid Crystals. <i>ChemPhysChem</i> , 2016, 17, 859-872.	1.0	30
29	A Perylene-Triazine-Based Star-Shaped Green Light Emitter for Organic Light Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1608-1613.	1.2	30
30	Controlling Liquid Crystal Alignment Using Photocleavable Cyanobiphenyl Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3686-3692.	4.0	29
31	Photoluminescent discotic liquid crystals derived from tris(N-salicylideneaniline) and stilbene conjugates: Structure-property correlations. <i>Dyes and Pigments</i> , 2016, 132, 291-305.	2.0	29
32	Contrasting effects of heterocycle substitution and branched tails in the arms of star-shaped molecules. <i>New Journal of Chemistry</i> , 2017, 41, 4680-4688.	1.4	28
33	Improved Photoreaction Yields for Soft Ultraviolet Photolithography in Organothiol Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21642-21647.	1.5	26
34	Guest-Responsive Covalent Frameworks by the Cross-Linking of Liquid-Crystalline Salts: Tuning of Lattice Flexibility by the Design of Polymerizable Units. <i>Chemistry - A European Journal</i> , 2011, 17, 14752-14762.	1.7	24
35	Effect of Atomic-Scale Differences on the Self-Assembly of Thiophene-Based Polycatenars in Liquid Crystalline and Organogel States. <i>Chemistry - A European Journal</i> , 2016, 22, 17843-17856.	1.7	23
36	Liquid-Crystalline Star-Shaped Supergelator Exhibiting Aggregation-Induced Blue Light Emission. <i>Langmuir</i> , 2016, 32, 9301-9312.	1.6	22

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37	A Self-assembly Route for Double Bilayer Lipid Membrane Formation. <i>ChemPhysChem</i> , 2010, 11, 569-574.	1.0	21
38	Room temperature columnar liquid crystalline self-assembly of acidochromic, luminescent, star-shaped molecules with cyanovinylene chromophores. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1844-1852.	2.7	21
39	Columnar self-assembly of luminescent bent-shaped hexacatenars with a central pyridine core connected with substituted 1,3,4-oxadiazole and thiadiazoles. <i>New Journal of Chemistry</i> , 2018, 42, 3781-3798.	1.4	20
40	A Cholesterol-Based Tether for Creating Photopatterned Lipid Membrane Arrays on both a Silica and Gold Surface. <i>Chemistry - A European Journal</i> , 2009, 15, 6363-6370.	1.7	19
41	Nonsymmetrical cholesterol dimers constituting regioisomeric oxadiazole and thiadiazole cores: an investigation of the structure-property correlation. <i>New Journal of Chemistry</i> , 2017, 41, 879-888.	1.4	18
42	The effect of regioisomerism on the mesomorphic and photophysical behavior of oxadiazole-based tris(N-salicylideneaniline)s: synthesis and characterization. <i>New Journal of Chemistry</i> , 2017, 41, 9908-9917.	1.4	18
43	Synthesis and self-assembly of aroylhydrazone based polycatenars: A structure-property correlation. <i>Journal of Molecular Liquids</i> , 2019, 284, 282-290.	2.3	18
44	Room-Temperature Columnar Liquid Crystalline Materials Based on Pyrazino[2,3-g]quinoxaline for Bright Green Organic Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1959-1969.	2.0	17
45	Hexacatenars Exhibiting γ -Driven Supergelation, Aggregation Induced Blue Light Emission and Thermochromism. <i>ChemistrySelect</i> , 2016, 1, 5107-5120.	0.7	16
46	Microwave-Assisted Method for the Synthesis of Perylene Ester Imides as a Gateway Toward Unsymmetrical Perylene Bisimides. <i>Journal of Organic Chemistry</i> , 2018, 83, 6290-6300.	1.7	16
47	Star-shaped γ -gelators based on oxadiazole and thiadiazoles: a structure-property correlation. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 478-489.	1.7	15
48	First Example of White Organic Electroluminescence Utilizing Perylene Ester Imides. <i>ChemistrySelect</i> , 2018, 3, 5123-5129.	0.7	14
49	Giant enhancement and facile tuning of photoluminescence in a soft anisotropic magneto-gel. <i>Nanoscale</i> , 2018, 10, 15686-15695.	2.8	11
50	Experimental and theoretical investigations of acid sensing properties of pyrazino[2,3-g]quinoxaline derivatives. <i>Journal of Molecular Structure</i> , 2021, 1225, 129120.	1.8	10
51	Fast Photoluminescence Switching in the Nematic Phase of Calamitic-Discotic Composites. <i>Advanced Optical Materials</i> , 2015, 3, 1116-1124.	3.6	9
52	Glass-forming organic radical compounds with cholesterol and benzylideneamine cores. <i>Tetrahedron Letters</i> , 2005, 46, 6701-6703.	0.7	7
53	Substituted Aroylhydrazone Based Polycatenars: Tuning of Liquid Crystalline Self-Assembly. <i>ChemistrySelect</i> , 2018, 3, 4027-4037.	0.7	7
54	Influence of lateral methyl/chloro substituents on the liquid crystalline and photoswitching behaviour of bent-core mesogens bearing azobenzene wings: synthesis and characterization. <i>New Journal of Chemistry</i> , 2020, 44, 5731-5738.	1.4	7

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55	Effect of Photonic Band Gap on Photoluminescence in a Dye-Doped Blue Phase Liquid Crystal. Journal of Physical Chemistry B, 2021, 125, 11582-11590.	1.2	7
56	Influence of inter- and intramolecular H-bonding on the mesomorphic and photoswitching behaviour of (E)-4-((4-(hexyloxy)phenyl)diazenyl)-N-phenyl benzamides. RSC Advances, 2020, 10, 20222-20230.	1.7	6
57	Structure–property relationships of quinoxaline-based liquid crystals. Soft Matter, 2021, 17, 8221-8257.	1.2	6
58	A New Class of Solution Processable Pyrazino[2,3-b]quinoxaline Carbazole Derivative Based on D–A–D Architecture for Achieving High EQE in Yellow and White OLEDs. Advanced Optical Materials, 2022, 10, .	3.6	6
59	Room-Temperature, Deep-Red/NIR-Emissive, C ₃ -Symmetric (n,π-conjugated) Columnar Liquid Crystals: C ₃ -Tris(keto-hydrazone)s. ACS Omega, 2021, 6, 3291-3306.	1.6	5
60	Reversible metallisation of soft UV patterned substrates. Journal of Materials Chemistry C, 2014, 2, 5916-5923.	2.7	4
61	Photoisomerization behavior of photochromic amide-based azobenzene dyes exhibiting H-bonding effect: Synthesis and characterization. Korean Journal of Chemical Engineering, 2016, 33, 1480-1488.	1.2	4
62	Metal-free C–H functionalization of pyrrolidine to pyrrolinium-based room temperature ionic liquid crystals. New Journal of Chemistry, 2021, 45, 8064-8071.	1.4	3
63	Synthesis of nitrilotriacetic acid terminated tethers for the binding of His-tagged proteins to lipid bilayers and to gold. Tetrahedron, 2011, 67, 6246-6251.	1.0	0
64	Synthesis and Liquid Crystalline Properties of Low Molecular Weight Bis-Chalcone Compounds. Current Organic Synthesis, 2021, 18, .	0.7	0