

# Sithara P Sreenilayam

## List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , 2020, 32, 147-177.	14.2	110
2	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , 2021, 43, 99-131.	14.2	107
3	Spontaneous helix formation in non-chiral bent-core liquid crystals with fast linear electro-optic effect. <i>Nature Communications</i> , 2016, 7, 11369.	12.8	64
4	Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for the $SmA_{PI}^{\pm}$ Phase. <i>Physical Review Letters</i> , 2011, 107, 247801.	7.8	37
5	Characterization of the Submicrometer Hierarchy Levels in the Twist-Bend Nematic Phase with Nanometric Helices via Photopolymerization. Explanation for the Sign Reversal in the Polar Response. <i>Nano Letters</i> , 2017, 17, 7515-7519.	9.1	25
6	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.	3.3	23
7	Flexoelectric polarization studies in bent-core nematic liquid crystals. <i>Physical Review E</i> , 2015, 92, 022502.	2.1	20
8	Phase behavior and characterization of heptamethyltrisiloxane-based de Vries smectic liquid crystal by electro-optics, x rays, and dielectric spectroscopy. <i>Physical Review E</i> , 2017, 95, 032701.	2.1	16
9	Chiral smectic- $A$ and smectic- $C$ phases with de Vries characteristics. <i>Physical Review E</i> , 2017, 95, 062704.	2.1	16
10	Development of ferroelectricity in the smectic phases of 4-cyanoresorcinol derived achiral bent-core liquid crystals with long terminal alkyl chains. <i>Physical Review Materials</i> , 2017, 1, .	2.4	14
11	de Vries liquid crystals based on a chiral 5-phenylpyrimidine benzoate core with a tri- and tetra-carbosilane backbone. <i>Physical Review Materials</i> , 2018, 2, .	2.4	14
12	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. <i>Nano Structures Nano Objects</i> , 2022, 29, 100841.	3.5	14
13	Surface Functionalized MXenes for Wastewater Treatment—A Comprehensive Review. <i>Global Challenges</i> , 2022, 6, .	3.6	14
14	The $N_{TB}$ phase in an achiral asymmetrical bent-core liquid crystal terminated with symmetric alkyl chains. <i>Liquid Crystals</i> , 0, , 1-10.	2.2	13
15	Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and (R,R)-Tj ETQq1 1 0.784314 rgBT /Overloc	2.1	13
16	A fast linear electro-optical effect in a non-chiral bent-core liquid crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12585-12590.	5.5	13
17	Formation and development of nanometer-sized cybotactic clusters in bent-core nematic liquid crystalline compounds. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1288-1296.	2.8	13
18	Additive-free silver nanoparticle ink development using flow-based Laser Ablation Synthesis in Solution and Aerosol Jet printing. <i>Chemical Engineering Journal</i> , 2022, 449, 137817.	12.7	13

#	ARTICLE	IF	CITATIONS
19	Real-time monitoring and control for high-efficiency autonomous laser fabrication of silicon nanoparticle colloids. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 291-304.	3.0	12
20	The effect of chiral doping in achiral smectic liquid crystals on the de Vries characteristics: smectic layer thickness, electro-optics and birefringence. <i>Liquid Crystals</i> , 2018, 45, 513-521.	2.2	11
21	Investigation of the heliconical smectic $SmC^*$ phase in achiral bent-core mesogens derived from 4-cyanoresorcinol. <i>Physical Review Materials</i> , 2019, 3, .		
22	Observation of the de Vries behavior in $SmA^*$ phase of a liquid crystal using polarised Raman scattering and infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 147, 094903.	3.0	9
23	Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22946-22956.	2.8	9
24	Dielectric and Optical Study of Biaxial Bent-Core Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 75-81.	0.9	6
25	Observation of an anomalous $SmA$ - $SmC$ - $SmA$ phase sequence in a bent-core liquid crystal derived from 4-cyanoresorcinol. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
26	Properties of Non-Tilted Bent-Core Orthogonal Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 140-146.	0.9	5
27	Physical Properties of $SmAb$ Phase in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012, 431, 196-201.	0.6	4
28	Electric Field Induced Transformations and Dielectric Properties in Non-Tilted Phases of a Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 82-87.	0.9	3
29	Structure and Polymorphism of Biaxial Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 133-139.	0.9	3
30	Fast Ferroelectric Liquid Crystal Based Optical Switch: Simulation and Experiments. <i>Crystals</i> , 2019, 9, 388.	2.2	3
31	Fast linear electrooptic effect in non-chiral bent-core liquid crystal. <i>Ferroelectrics</i> , 2016, 495, 35-42.	0.6	2
32	Biaxial Order Parameter in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012, 431, 190-195.	0.6	1
33	Flexoelectric polarization in cyanoresorcinol and oxadiazole bent core nematic liquid crystals. <i>Ferroelectrics</i> , 2016, 495, 28-34.	0.6	1
34	FLC based matrix optical switch. , 2009, , .		0