

# Sithara P Sreenilayam

## List of Publications by Year in descending order

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docs citations

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times ranked

518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. Nano Structures Nano Objects, 2022, 29, 100841.	3.5	14
2	Surface Functionalized MXenes for Wastewater Treatment—A Comprehensive Review. Global Challenges, 2022, 6, .	3.6	14
3	Additive-free silver nanoparticle ink development using flow-based Laser Ablation Synthesis in Solution and Aerosol Jet printing. Chemical Engineering Journal, 2022, 449, 137817.	12.7	13
4	Real-time monitoring and control for high-efficiency autonomous laser fabrication of silicon nanoparticle colloids. International Journal of Advanced Manufacturing Technology, 2021, 114, 291-304.	3.0	12
5	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. Materials Today, 2021, 43, 99-131.	14.2	107
6	Advanced materials of printed wearables for physiological parameter monitoring. Materials Today, 2020, 32, 147-177.	14.2	110
7	Stereochemical Rules Govern the Soft Self-Assembly of Achiral Compounds: Understanding the Heliconal Liquid-Crystalline Phases of Bent-Core Mesogens. Chemistry - A European Journal, 2020, 26, 4714-4733.	3.3	23
8	Observation of an anomalous SmA-SmC-SmA phase sequence in a bent-core liquid crystal derived from 4-cyanoresorcinol. Physical Review Research, 2020, 2, .	3.6	6
9	Fast Ferroelectric Liquid Crystal Based Optical Switch: Simulation and Experiments. Crystals, 2019, 9, 388.	2.2	3
10	Investigation of the heliconal smectic $P_{SF}$ phase in achiral bent-core mesogens derived from 4-cyanoresorcinol. Physical Review Materials, 2019, 3, .	2.1	1
11	The effect of chiral doping in achiral smectic liquid crystals on the de Vries characteristics: smectic layer thickness, electro-optics and birefringence. Liquid Crystals, 2018, 45, 513-521.	2.2	11
12	Formation and development of nanometer-sized cybotactic clusters in bent-core nematic liquid crystalline compounds. Beilstein Journal of Nanotechnology, 2018, 9, 1288-1296.	2.8	13
13	de Vries liquid crystals based on a chiral 5-phenylpyrimidine benzoate core with a tri- and tetra-carbosilane backbone. Physical Review Materials, 2018, 2, .	2.4	14
14	Phase behavior and characterization of heptamethyltrisiloxane-based de Vries smectic liquid crystal by electro-optics, x rays, and dielectric spectroscopy. Physical Review E, 2017, 95, 032701.	2.1	16
15	Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and (R,R)-Tj ETQq1 1 0.784314 rgBT /Overlo	2.1	13
16	Observation of the de Vries behavior in SmA* phase of a liquid crystal using polarised Raman scattering and infrared spectroscopy. Journal of Chemical Physics, 2017, 147, 094903.	3.0	9
17	Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. Physical Chemistry Chemical Physics, 2017, 19, 22946-22956.	2.8	9
18	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. Nano Letters, 2017, 17, 7515-7519.	9.1	25

#	ARTICLE	IF	CITATIONS
19	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
20	Chiral smectic- $A$ and smectic- $C$ phases with de Vries characteristics. <i>Physical Review E</i> , 2017, 95, 062704.	2.1	16
21	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
22	Fast linear electrooptic effect in non-chiral bent-core liquid crystal. <i>Ferroelectrics</i> , 2016, 495, 35-42.	0.6	2
23	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
24	Flexoelectric polarization in cyanoresorcinol and oxadiazole bent core nematic liquid crystals. <i>Ferroelectrics</i> , 2016, 495, 28-34.	0.6	1
25	Flexoelectric polarization studies in bent-core nematic liquid crystals. <i>Physical Review E</i> , 2015, 92, 022502.	2.1	20
26	Physical Properties of SmAbPhase in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012, 431, 196-201.	0.6	4
27	Properties of Non-Tilted Bent-Core Orthogonal Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 140-146.	0.9	5
28	Structure and Polymorphism of Biaxial Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 133-139.	0.9	3
29	Biaxial Order Parameter in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012, 431, 190-195.	0.6	1
30	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
31	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
32	Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for the SmA $\pm$ Phase. <i>Physical Review Letters</i> , 2011, 107, 247801.	7.8	37
33	FLC based matrix optical switch. , 2009, , .		0
34	The N <sub>TB</sub> phase in an achiral asymmetrical bent-core liquid crystal terminated with symmetric alkyl chains. <i>Liquid Crystals</i> , 0, , 1-10.	2.2	13