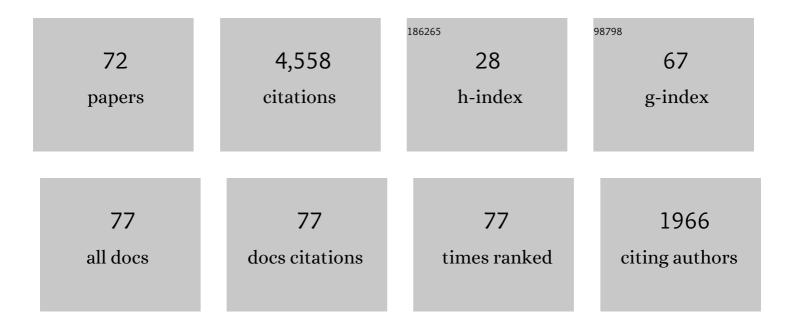
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spontaneous Formation of Macroscopic Chiral Domains in a Fluid Smectic Phase of Achiral Molecules. Science, 1997, 278, 1924-1927.	12.6	1,176
2	Chiral heliconical ground state of nanoscale pitch in a nematic liquid crystal of achiral molecular dimers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15931-15936.	7.1	431
3	A Ferroelectric Liquid Crystal Conglomerate Composed of Racemic Molecules. Science, 2000, 288, 2181-2184.	12.6	328
4	Polarization-Modulated Smectic Liquid Crystal Phases. Science, 2003, 301, 1204-1211.	12.6	296
5	Helical Nanofilament Phases. Science, 2009, 325, 456-460.	12.6	291
6	Chiral Isotropic Liquids from Achiral Molecules. Science, 2009, 325, 452-456.	12.6	250
7	First-principles experimental demonstration of ferroelectricity in a thermotropic nematic liquid crystal: Polar domains and striking electro-optics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14021-14031.	7.1	174
8	Spontaneous Ferroelectric Order in a Bent-Core Smectic Liquid Crystal of Fluid Orthorhombic Layers. Science, 2011, 332, 72-77.	12.6	141
9	Athermal photofluidization of glasses. Nature Communications, 2013, 4, 1521.	12.8	111
10	On the Nature of the B4 Banana Phase:  Crystal or Not a Crystal?. Crystal Growth and Design, 2005, 5, 2091-2099.	3.0	80
11	Chirality-Preserving Growth of Helical Filaments in the B4 Phase of Bent-Core Liquid Crystals. Journal of the American Chemical Society, 2011, 133, 12656-12663.	13.7	75
12	Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21311-21315.	7.1	70
13	Self-assembled monolayers for liquid crystal alignment: simple preparation on glass using alkyltrialkoxysilanes. Liquid Crystals, 2004, 31, 481-489.	2.2	56
14	Multistep hierarchical self-assembly of chiral nanopore arrays. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14342-14347.	7.1	53
15	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. Soft Matter, 2013, 9, 462-471.	2.7	51
16	Polar in-plane surface orientation of a ferroelectric nematic liquid crystal: Polar monodomains and twisted state electro-optics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	51
17	High-Sensitivity Aminoazobenzene Chemisorbed Monolayers for Photoalignment of Liquid Crystals. Langmuir, 2009, 25, 997-1003.	3.5	47
18	A Modulated Helical Nanofilament Phase. Angewandte Chemie - International Edition, 2013, 52, 5254-5257.	13.8	45

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19	Orientation of a Helical Nanofilament (B4) Liquidâ€Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. Advanced Materials, 2011, 23, 1962-1967.	21.0	42
20	A bow-phase mesogen showing strong, robust analog electro-optics. Journal of Materials Chemistry, 2001, 11, 2743-2747.	6.7	38
21	Structure of the B4 Liquid Crystal Phase near a Glass Surface. ChemPhysChem, 2012, 13, 155-159.	2.1	38
22	Alignment of helical nanofilaments on the surfaces of various self-assembled monolayers. Soft Matter, 2013, 9, 6185.	2.7	38
23	Surface alignment of ferroelectric nematic liquid crystals. Soft Matter, 2021, 17, 8130-8139.	2.7	38
24	Topological Ferroelectric Bistability in a Polarization-Modulated Orthogonal Smectic Liquid Crystal. Journal of the American Chemical Society, 2012, 134, 9681-9687.	13.7	33
25	Diastereomeric liquid crystal domains at the mesoscale. Nature Communications, 2015, 6, 7763.	12.8	33
26	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. Science Advances, 2017, 3, e1602102.	10.3	32
27	Pretransitional Orientational Ordering of a Calamitic Liquid Crystal by Helical Nanofilaments of a Bent-Core Mesogen. Langmuir, 2010, 26, 15541-15545.	3.5	30
28	Electrically Tunable Reflection Color of Chiral Ferroelectric Nematic Liquid Crystals. Advanced Optical Materials, 2021, 9, 2101230.	7.3	30
29	Reflection Symmetry Breaking in Achiral Rod-Shaped Smectic Liquid Crystals?. Journal of the American Chemical Society, 2006, 128, 5318-5319.	13.7	28
30	Self-assembled hydrophobic surface generated from a helical nanofilament (B4) liquid crystal phase. Soft Matter, 2013, 9, 2793.	2.7	28
31	Ideal mixing of paraelectric and ferroelectric nematic phases in liquid crystals of distinct molecular species. Liquid Crystals, 2022, 49, 1531-1544.	2.2	25
32	Triclinic Fluid Order. Physical Review Letters, 2010, 104, 067801.	7.8	23
33	The organometallic â€~molecular tinkertoy' approach to planar grid polymers. Journal of Organometallic Chemistry, 1997, 548, 83-89.	1.8	21
34	Polar electro-optic switching in droplets of an achiral nematic liquid crystal. Liquid Crystals, 1999, 26, 1555-1561.	2.2	19
35	A bistable liquid-crystal display mode based on electrically driven smectic A layer reorientation. Applied Physics Letters, 2007, 91, .	3.3	19
36	On the Origin of the "Giant―Electroclinic Effect in a "De Vriesâ€â€Type Ferroelectric Liquid Crystal Material for Chirality Sensing Applications. ChemPhysChem, 2009, 10, 890-892.	2.1	18

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37	Physico-chemical confinement of helical nanofilaments. Soft Matter, 2015, 11, 3653-3659.	2.7	17
38	de Gennes' triclinic smectics – not so far-fetched after all. Liquid Crystals, 2009, 36, 1309-1317.	2.2	16
39	Multidimensional Helical Nanostructures in Multiscale Nanochannels. Langmuir, 2015, 31, 8156-8161.	3.5	16
40	The peculiar optic, dielectric and Xâ€ray diffraction properties of a fluorinated de Vries asymmetric diffuse coneâ€model ferroelectric liquid crystal. Liquid Crystals, 2006, 33, 17-23.	2.2	15
41	Effective conductivity due to continuous polarization reorientation in fluid ferroelectrics. Physical Review E, 2011, 84, 020701.	2.1	15
42	Supermolecular stereochemistry in ferroelectric liquid crystals. Journal of Physical Organic Chemistry, 2000, 13, 830-836.	1.9	14
43	A General Method for Measurement of Enantiomeric Excess by Using Electrooptics in Ferroelectric Liquid Crystals. Angewandte Chemie - International Edition, 2007, 46, 1473-1475.	13.8	14
44	Chiral Isotropic Sponge Phase of Hexatic Smectic Layers of Achiral Molecules. ChemPhysChem, 2014, 15, 1502-1507.	2.1	13
45	Effect of Concentration on the Photo-Orientation and Relaxation Dynamics of Self-Assembled Monolayers of Mixtures of an Azobenzene-Based Triethoxysilane with Octyltriethoxysilane. Langmuir, 2011, 27, 3336-3342.	3.5	12
46	Chiral SmA* materials for display applications?. Journal of the Society for Information Display, 2007, 15, 585-588.	2.1	11
47	Bistable SmA liquidâ€crystal display driven by a twoâ€direction electric field. Journal of the Society for Information Display, 2008, 16, 675-681.	2.1	11
48	Phase Winding of a Nematic Liquid Crystal by Dynamic Localized Reorientation of an Azo-Based Self-Assembled Monolayer. Langmuir, 2014, 30, 9560-9566.	3.5	11
49	Nanoconfinement of the Lowâ€Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. Chemistry - A European Journal, 2019, 25, 7438-7442.	3.3	11
50	Topography of bent-core liquid crystals at the air/liquid crystal interface. Liquid Crystals, 2013, 40, 1730-1735.	2.2	10
51	Field alignment of bent-core smectic liquid crystals for analog optical phase modulation. Applied Physics Letters, 2015, 106, .	3.3	10
52	Spiral layer undulation defects in B7 liquid crystals. Soft Matter, 2013, 9, 11303.	2.7	9
53	Nucleation and growth of a helical nanofilament (B4) liquid-crystal phase confined in nanobowls. Soft Matter, 2015, 11, 7778-7782.	2.7	9
54	Ferroelectric and antiferroelectric odd–even behavior in a tricarbosilane-terminated liquid crystal homologous series. Chemical Science, 2014, 5, 1869-1874.	7.4	8

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55	Director structures in achiral smectic C liquid crystal cells: fieldâ€induced twist domain nucleation. Liquid Crystals, 2006, 33, 25-32.	2.2	7
56	Electro-optic response of the anticlinic, antiferroelectric liquid-crystal phase of a biaxial bent-core molecule with tilt angle near 45â <sup>~~</sup> . Physical Review E, 2012, 85, 031704.	2.1	7
57	Manipulating the twist sense of helical nanofilaments of bent-core liquid crystals using rod-shaped, chiral mesogenic dopants. Liquid Crystals, 2016, 43, 1083-1091.	2.2	6
58	Main-Chain Ferroelectric Liquid Crystal Polymers for Electronic Nonlinear Optics Applications 1. Ferroelectrics, 2004, 309, 77-82.	0.6	5
59	Dynamics of cis isomers in highly sensitive amino-azobenzene monolayers: The effect of slow relaxation on photo-induced anisotropy. Journal of Applied Physics, 2011, 109, 103521.	2.5	5
60	Cybotactic behavior in the de Vries smectic-A* liquid-crystal structure formed by a silicon-containing molecule. Physical Review E, 2014, 89, 032502.	2.1	5
61	The heliconical nematic twist-bend phase from "classic―bent-core benzylideneanilines with oligomethylene cores. Molecular Crystals and Liquid Crystals, 2017, 647, 430-438.	0.9	5
62	Precision adiabatic scanning calorimetry of a nematic – ferroelectric nematic phase transition. Liquid Crystals, 2022, 49, 780-789.	2.2	5
63	Airflow-aligned helical nanofilament (B4) phase in topographic confinement. Scientific Reports, 2016, 6, 29111.	3.3	4
64	New SmAPF Mesogens Designed for Analog Electrooptics Applications. Materials, 2017, 10, 1284.	2.9	4
65	Design of Smectic Liquid Crystal Phases Using Layer Interface Clinicity. ACS Symposium Series, 2001, , 268-281.	0.5	1
66	<title>Ferroelectric smectic liquid crystals in the bent-core family: alignment for V-shaped analog&lt;br&gt;switching</title> . , 1999, 3800, 21.		0
67	Antiferroelectric Liquid Crystals from Achiral Molecules And A Liquid Conglomerate. Materials Research Society Symposia Proceedings, 1999, 559, 3.	0.1	0
68	Design and synthesis of an achiral ferroelectric smectic liquid crystal. , 2011, , .		0
69	SmAPf phase, its properties and potential dye alignment (Conference Presentation). , 2016, , .		Ο
70	Host-guest chemistry in the helical nanofilament phase (Conference Presentation). , 2016, , .		0
71	Frontispiece: Nanoconfinement of the Lowâ€Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. Chemistry - A European Journal, 2019, 25, .	3.3	0
72	Homeotropic alignment of multiple bent-core liquid crystal phases using a polydimethylsiloxane alignment layer. , 2017, , .		0