

# Jagdish K Vij

## List of Publications by Year in descending order

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329  
papers

6,877  
citations

87888

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344  
all docs

344  
docs citations

344  
times ranked

2464  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nematic twist-bend phase with nanoscale modulation of molecular orientation. Nature Communications, 2013, 4, 2635.	12.8	534
2	Spontaneous Periodic Deformations in Nonchiral Planar-Aligned Bimesogens with a Nematic-Nematic Transition and a Negative Elastic Constant. Physical Review Letters, 2010, 105, 167801.	7.8	307
3	Thermotropic Biaxial Nematic Phase in Liquid Crystalline Organo-Siloxane Tetrapodes. Physical Review Letters, 2004, 93, 237801.	7.8	194
4	Microsecond linear optical response in the unusual nematic phase of achiral bimesogens. Applied Physics Letters, 2011, 99, .	3.3	142
5	The investigation of the relaxation processes in antiferroelectric liquid crystals by broad band dielectric and electro-optic spectroscopy. Liquid Crystals, 1998, 25, 241-252.	2.2	123
6	Nematic Phases in 1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals: Is There a Ferroelectric Switching?. Advanced Functional Materials, 2012, 22, 1671-1683.	14.9	108
7	Fourier transform infrared study of poly (2-hydroxyethyl methacrylate) PHEMA. Colloid and Polymer Science, 1997, 275, 323-332.	2.1	101
8	Observation and investigation of the ferroelectric subphase with high $Q$ parameter. Physical Review E, 1997, 55, 4345-4353.	2.1	91
9	Field-induced periodic chiral pattern in the $N_x$ phase of achiral bimesogens. Applied Physics Letters, 2012, 101, .	3.3	81
10	Effects of induced steric hindrance on the dielectric behavior and H bonding in the supercooled liquid and vitreous alcohol. Journal of Chemical Physics, 2001, 114, 4634.	3.0	79
11	A Liquid Crystalline Phase with Uniform Tilt, Local Polar Order and Capability of Symmetry Breaking. Advanced Materials, 2013, 25, 2186-2191.	21.0	79
12	Hierarchical elasticity of bimesogenic liquid crystals with twist-bend nematic phase. Applied Physics Letters, 2015, 106, .	3.3	78
13	Far infrared spectroscopy of water at different temperatures: GHz to THz dielectric spectroscopy of water. Journal of Molecular Liquids, 2004, 112, 125-135.	4.9	75
14	The exponential dielectric relaxation dynamics in a secondary alcohol's supercooled liquid and glassy states. Journal of Chemical Physics, 2000, 112, 3262-3266.	3.0	72
15	The influence of surface structure on the discotic liquid crystalline alignment. an infrared spectroscopy study. Advanced Materials, 1995, 7, 919-922.	21.0	69
16	1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals with Cybotactic Nematic Phases. ChemPhysChem, 2014, 15, 1323-1335.	2.1	66
17	Elastic properties of bimesogenic liquid crystals. Liquid Crystals, 2013, 40, 681-688.	2.2	64
18	Spontaneous helix formation in non-chiral bent-core liquid crystals with fast linear electro-optic effect. Nature Communications, 2016, 7, 11369.	12.8	64

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19	The investigation of the relaxation processes in antiferroelectric liquid crystals by electro-optic spectroscopy. <i>Applied Physics Letters</i> , 1998, 72, 1667-1669.	3.3	59
20	Development of polar order in liquid crystalline phases of a banana compound with a unique sequence of three orthogonal phases. <i>Chemical Communications</i> , 2010, 46, 3702.	4.1	59
21	Localized relaxation strength and its mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2002, 116, 5908-5909.	3.0	58
22	1D photonic crystal fabricated by wet etching of silicon. <i>Optical Materials</i> , 2005, 27, 831-835.	3.6	55
23	Electric field induced biaxiality and the electro-optic effect in a bent-core nematic liquid crystal. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	55
24	Infrared absorption study of hexapentyloxytriphenylene A discotic liquid crystal. <i>Liquid Crystals</i> , 1993, 14, 807-819.	2.2	52
25	Relaxation strength of localized motions in D-sorbitol and mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2003, 119, 435-442.	3.0	52
26	Dielectric response of surface stabilized ferroelectric liquid crystal cells. <i>Physical Review E</i> , 1994, 50, 4763-4772.	2.1	51
27	Optical confirmation of biaxial nematic (Nb) phase in a bent-core mesogen. <i>Applied Physics Letters</i> , 2009, 95, 183304.	3.3	49
28	Flexoelectric behavior of bimesogenic liquid crystals in the nematic phase – observation of a new self-assembly pattern at the twist-bend nematic and the nematic interface. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8179-8184.	5.5	48
29	Comparison of the characteristics of the chiral analog of the de Vries type of smectic-A* phase. <i>Physical Review E</i> , 2003, 67, 051709.	2.1	47
30	Discrete flexoelectric polarizations and biaxial subphases with periodicities other than three and four layers in chiral smectic liquid crystals frustrated between ferroelectricity and antiferroelectricity. <i>Physical Review E</i> , 2005, 72, 041705.	2.1	47
31	Dielectric and electro-optical studies of a ferroelectric copolysiloxane. <i>Physical Review B</i> , 1994, 50, 16346-16356.	3.2	46
32	Pyroelectric and electro-optical effects in the SmC* phase of a polysiloxane liquid crystal. <i>Journal of Applied Physics</i> , 1994, 75, 728-733.	2.5	45
33	Observation of a possible random ferroelectric liquid crystal phase. <i>Journal of Materials Chemistry</i> , 1999, 9, 2967-2969.	6.7	44
34	Two kinds of smectic-C <sub>1</sub> * subphases in a liquid crystal and their relative stability dependent on the enantiomeric excess as elucidated by electric-field-induced birefringence experiment. <i>Physical Review E</i> , 2005, 71, 021711.	2.1	44
35	Liquid crystal display modes in a nontilted bent-core biaxial smectic liquid crystal. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	44
36	Dielectric Response of Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 2648-2650.	1.5	43

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37	The orientational order parameters of a dendritic liquid crystal organo-siloxane tetrapode oligomer, determined using polarized infrared spectroscopy. Journal of Chemical Physics, 2004, 121, 5012-5021.	3.0	42
38	Hydration and plasticization effects in cellulose acetate: molecular motion and relaxation. Faraday Discussions, 1996, 103, 255.	3.2	41
39	Dynamics of Collective and Molecular Modes of a Ferroelectric Liquid Crystal in Confined Geometry Using Dielectric Spectroscopy. Physical Review Letters, 1997, 79, 249-252.	7.8	41
40	The pressure and temperature dependence of the static permittivity and density of heptanol isomers. Journal Physics D: Applied Physics, 1978, 11, 545-559.	2.8	40
41	Theory of the intermediate tilted smectic phases and their helical rotation. Physical Review E, 2006, 74, 011705.	2.1	39
42	Dielectric studies on charge hopping in melanin polymer. Journal of Molecular Structure, 2002, 606, 205-210.	3.6	37
43	Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for the SmA <sub>1</sub> ±Phase. Physical Review Letters, 2011, 107, 247801.	7.8	37
44	The pressure and temperature dependence of the complex permittivity of heptanol isomers. Journal Physics D: Applied Physics, 1981, 14, 733-746.	2.8	36
45	Evidence for de Vries structure in a smectic-A liquid crystal observed by polarized Raman scattering. Physical Review E, 2005, 71, 041705.	2.1	36
46	Localized relaxation in a glass and the minimum in its orientational polarization contribution. Journal of Chemical Physics, 2002, 117, 1714-1722.	3.0	35
47	Vertically etched silicon as 1D photonic crystal. Physica Status Solidi A, 2003, 197, 544-548.	1.7	35
48	Rotational bias of an antiferroelectric liquid crystal studied by polarized Fourier transform infrared spectroscopy. Physical Review E, 1999, 59, 551-555.	2.1	34
49	Field-induced transformations in the biaxial order of non-tilted phases in a bent-core smectic liquid crystal. Europhysics Letters, 2010, 92, 26002.	2.0	34
50	Study of the molecular tilt angle and the order parameter of a ferroelectric liquid crystal mixture using IR spectroscopy. Liquid Crystals, 1992, 12, 1005-1012.	2.2	33
51	Observation of an anchoring transition in a discotic liquid crystal. Europhysics Letters, 1998, 44, 198-204.	2.0	33
52	Kinetics of spontaneous change in the localized motions of D-sorbitol glass. Journal of Chemical Physics, 2006, 124, 074509.	3.0	32
53	Electro-optic and dielectric study of the de Vries <sup>6</sup> type smectic- $A$ exhibiting transitions to smectic- $C$ . Physical Review E, 2008, 77, 041707.	2.1	32
54	Molecular model of biaxial ordering in nematic liquid crystals composed of flat molecules with four mesogenic groups. Physical Review E, 2010, 81, 061702.	2.1	32

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55	Development of polar order in a bent-core liquid crystal with a new sequence of two orthogonal smectic and an adjacent nematic phase. <i>Journal of Materials Chemistry</i> , 2011, 21, 18711.	6.7	32
56	Wide-band dielectric spectroscopy of hydrated poly(hydroxyethyl methacrylate). <i>Polymer</i> , 1994, 35, 227-234.	3.8	31
57	Mechanism of the Major Orientation Polarization in Alcohols, and the Effects of Steric Hindrance, and Dilution-Induced Decrease on H-Bonding. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5061-5070.	2.5	31
58	Experimental demonstration, using polarized Raman and infrared spectroscopy, that both conventional and de Vries smectic-A phases may exist in smectic liquid crystals with a first-order A <sup>*</sup> C* transition. <i>Physical Review E</i> , 2006, 74, 051706.	2.1	31
59	Effect of cybotactic clusters on the elastic and flexoelectric properties of bent-core liquid crystals belonging to the same homologous series. <i>Physical Review E</i> , 2013, 88, 032503.	2.1	31
60	Distortions in structures of the twist bend nematic phase of a bent-core liquid crystal by the electric field. <i>Physical Review E</i> , 2018, 98, 022704.	2.1	31
61	Millimeter and submillimeter laser spectroscopy of water. <i>Chemical Physics Letters</i> , 1989, 155, 153-156.	2.6	30
62	Order Parameter, Alignment and Anchoring Transition in Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 231-244.	0.9	30
63	Investigation of de Vries SmA* mesophases in low molecular weight organosiloxane compounds. <i>Journal of Materials Chemistry</i> , 2006, 16, 842-849.	6.7	30
64	Orientalional order and dynamics of the dendritic liquid crystal organo-siloxane tetrapodes determined using dielectric spectroscopy. <i>Physical Review E</i> , 2006, 73, 051702.	2.1	30
65	Effects of ions on the dielectric permittivity and relaxation rate and the decoupling of ionic diffusion from dielectric relaxation in supercooled liquid and glassy 1-propanol. <i>Journal of Chemical Physics</i> , 2002, 116, 4192-4201.	3.0	29
66	Degeneracy lifting near the frustration points due to long-range interlayer interaction forces and the resulting varieties of polar chiral tilted smectic phases. <i>Liquid Crystals</i> , 2009, 36, 1101-1118.	2.2	29
67	Molecular dynamics of methanol. <i>Molecular Physics</i> , 1983, 50, 935-947.	1.7	28
68	Infrared spectroscopic study of a phenyl benzoate side group $\epsilon$ -methacrylate main chain polymeric liquid crystal. <i>Liquid Crystals</i> , 1994, 16, 783-803.	2.2	28
69	Angular dependence of absorbance on the polarization angle of an IR beam in liquid crystals. <i>Liquid Crystals</i> , 1996, 21, 147-151.	2.2	28
70	Field-induced phase transitions in an antiferroelectric liquid crystal using the pyroelectric effect. <i>Physical Review E</i> , 2000, 62, 2279-2287.	2.1	28
71	Discovery of a novel ferroelectric phase of five-layer periodicity in binary mixtures of chiral smectic liquid crystals exhibiting unusual reversed phase sequence. <i>Liquid Crystals</i> , 2011, 38, 663-668.	2.2	28
72	The dielectric polarizability of benzene as a function of temperature and pressure. <i>Journal of Chemical Physics</i> , 1976, 64, 2226-2228.	3.0	27

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73	Dielectric relaxation and libration spectroscopy of some aliphatic ketones and their molecular behavior. <i>The Journal of Physical Chemistry</i> , 1991, 95, 6142-6148.	2.9	27
74	An investigation of the field-induced ferroelectric subphases in antiferroelectric liquid crystals. <i>Journal of Physics Condensed Matter</i> , 1995, 7, L351-L360.	1.8	27
75	Orientalional Order and Dynamics of Nematic Multipodes Based on Carbosilazane Cores Using Optical and Dielectric Spectroscopy. <i>Macromolecules</i> , 2002, 35, 8601-8608.	4.8	27
76	Study of the biaxiality in the nematic phase of liquid crystals in terms of orientational order parameters by infrared spectroscopy. <i>Liquid Crystals</i> , 2010, 37, 653-667.	2.2	27
77	Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. <i>Journal of Chemical Physics</i> , 2007, 126, 034512.	3.0	26
78	Physical ageing and the Johari-Goldstein relaxation in molecular glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 783-792.	3.1	26
79	Brownian motion in a periodic potential: Application to dielectric relaxation. <i>European Physical Journal B</i> , 1985, 58, 187-198.	1.5	25
80	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
81	Dielectric Study of the Intermolecular Association of Alcohols in Solutions of Benzene. <i>Bulletin of the Chemical Society of Japan</i> , 1976, 49, 1824-1828.	3.2	24
82	A graphical method for determining the parameters of a diffusion profile in silicon by infrared reflection spectroscopy. <i>Solid-State Electronics</i> , 1989, 32, 69-76.	1.4	24
83	Investigation of the TGBA* phase in a ferroelectric liquid crystal using dielectric spectroscopy. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 7443-7452.	1.8	24
84	The concept of two stochastic processes in liquid water and analytical theory of the complex permittivity in the wavenumber range $0 \leq \omega < 1000 \text{ cm}^{-1}$ . <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 5173-5181.	2.8	24
85	Optical rotatory power of different phases of an antiferroelectric liquid crystal and implications for models of structure. <i>Physical Review E</i> , 2001, 63, 051708.	2.1	24
86	Johari-Goldstein relaxation and crystallization of sorbitol to ordered and disordered phases. <i>Journal of Chemical Physics</i> , 2004, 120, 5455-5462.	3.0	24
87	Self-assembled uniaxial and biaxial multilayer structures in chiral smectic liquid crystals frustrated between ferro- and antiferroelectricity. <i>Physical Review E</i> , 2004, 69, 060701.	2.1	24
88	Investigations of nanoscale helical pitch in smectic-C <sub>1</sub> * and smectic-C* phases of a chiral smectic liquid crystal using differential optical reflectivity measurements. <i>Physical Review E</i> , 2006, 74, 011701.	2.1	23
89	Short-range correlations seen in the nematic phase of bent-core liquid crystals by dielectric and electro-optic studies. <i>Physical Review E</i> , 2011, 84, 060701.	2.1	23
90	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

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91	Nonlinear Budy <sup>1/2</sup> model for dielectric relaxation: Comparison with new experimental data. European Physical Journal B, 1985, 61, 357-366.	1.5	22
92	Evidence of a polar cybotactic smectic A phase in a new fluorine substituted bent-core compound. Journal of Materials Chemistry, 2011, 21, 17098.	6.7	22
93	A field-reversal method for measuring the parameters of a ferroelectric liquid crystal. Liquid Crystals, 2001, 28, 615-620.	2.2	21
94	Gradual phase transition between the smectic- $C^*$ and smectic- $C$ and the thresholdless antiferroelectricity. Physical Review E, 2008, 78, 041702.	2.1	21
95	Macroscopic biaxiality and electric-field-induced rotation of the minor director in the nematic phase of a bent-core liquid crystal. Europhysics Letters, 2010, 91, 66002.	2.0	21
96	Molecular dynamics of iso-amyl bromide by dielectric spectroscopy, and the effects of a nonpolar solvent, 2-methylpentane, on the spectral features. Journal of Chemical Physics, 1999, 111, 10979-10985.	3.0	20
97	Effect of cell surfaces on the stability of chiral smectic- $C^*$ phases. Physical Review E, 2008, 78, 021711.	2.1	20
98	Gold nanorods embedded discotic nanoribbons. Chemical Communications, 2013, 49, 978-980.	4.1	20
99	Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. Soft Matter, 2014, 10, 5003-5016.	2.7	20
100	Flexoelectric polarization studies in bent-core nematic liquid crystals. Physical Review E, 2015, 92, 022502.	2.1	20
101	Submillimetre laser and interferometric spectroscopy of the alkyl alcohols. Chemical Physics Letters, 1982, 92, 528-532.	2.6	19
102	Pressure, Temperature, and Frequency Dependence of the Dielectric Properties of Strontium Barium Niobate. Physica Status Solidi A, 1982, 74, 225-232.	1.7	19
103	Complex permittivity measurements of acetone in the frequency region 50-310 GHz. Molecular Physics, 1991, 72, 353-361.	1.7	19
104	Hierarchy of Periodic Patterns in the Twist-bend Nematic Phase of Mesogenic Dimers. Molecular Crystals and Liquid Crystals, 2015, 611, 180-185.	0.9	19
105	Discontinuous change in the smectic layer thickness in ferroelectric liquid crystals. Physical Review E, 2007, 75, 042701.	2.1	18
106	Antiferroelectric dielectric relaxation processes and the interlayer interaction in antiferroelectric liquid crystals. Applied Physics Letters, 2008, 93, 142903.	3.3	18
107	Some new FIR laser lines of optically pumped $\text{D}_2\text{O}$ and $\text{D}_2\text{O}$ and spectroscopy of water and acetonitrile. IEEE Journal of Quantum Electronics, 1986, 22, 1123-1130.		
108	Polarization and dielectric properties of an antiferroelectric liquid crystal. Liquid Crystals, 1997, 23, 77-86.	2.2	17

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109	A comparison of the far-infrared and low-frequency Raman spectra of glass-forming liquids. <i>Journal of Molecular Structure</i> , 1999, 479, 111-122.	3.6	17
110	Ferrielectric liquid crystal subphase studied by polarized Fourier-transform infrared spectroscopy. <i>Physical Review E</i> , 2000, 62, 2269-2278.	2.1	17
111	Dielectric and optical rotatory power investigations of an antiferroelectric liquid crystal 12OF1M7 in a homeotropic cell: implications for models of the structure of ferrielectric phases. <i>Liquid Crystals</i> , 2001, 28, 1699-1704.	2.2	17
112	Structure-Dependent DC Conductivity and Relaxation Time in the Debye-Stokes-Einstein Equation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11201-11208.	2.6	17
113	Experimental study of de Vries properties in antiferroelectric smectic liquid crystals. <i>European Physical Journal E</i> , 2008, 27, 397-405.	1.6	17
114	Sign reversal in the dielectric anisotropy as functions of temperature and frequency in the nematic phase of a bent-core mesogen. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	17
115	Debye process and dielectric state of an alcohol in a nonpolar solvent. <i>Journal of Chemical Physics</i> , 2011, 134, 044525.	3.0	17
116	Effect of high hydrostatic pressure on the dielectric relaxation in a non-crystallizable monohydroxy alcohol in its supercooled liquid and glassy states. <i>Journal of Chemical Physics</i> , 2011, 135, 084507.	3.0	17
117	Inertia-corrected $\text{bud}\tilde{A}^3$ treatment of dielectric relaxation in polar molecules: Application to the fir spectrum of acetonttrile and hexanone-2. <i>Chemical Physics Letters</i> , 1986, 129, 375-381.	2.6	16
118	The dynamics of liquid water: Simulation and submillimeter spectroscopy. <i>Journal of Molecular Liquids</i> , 1987, 34, 285-306.	4.9	16
119	Modulated Hexatic-B* with giant electroclinic effect rather than anticlinic Hexatic-I A * $\hat{A}$ $\hat{A}$ A novel mechanism for stabilizing antiferroelectricity below Smectic-C A *. <i>Europhysics Letters</i> , 2007, 77, 36004.	2.0	16
120	Solitary wave propagation in antiferroelectric liquid crystal cells and the quadrupolar term in the interlayer interaction. <i>Physical Review E</i> , 2007, 76, 011708.	2.1	16
121	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
122	Chiral smectic- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{A} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and smectic- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ phases with de Vries characteristics. <i>Physical Review E</i> , 2017, 95, 062704.	2.1	16
123	Dielectric Relaxation and Molecular Structure. I. Dielectric Relaxation in Substituted Anilines. <i>Bulletin of the Chemical Society of Japan</i> , 1970, 43, 2307-2312.	3.2	15
124	Dielectric spectra of supercooled halogenobenzene-decalin solutions: A single particle site model for relaxation and resonant behaviors. <i>Journal of Chemical Physics</i> , 1983, 79, 4624-4628.	3.0	15
125	Pyroelectric properties of ferroelectric liquid crystal cells with chevron, bookshelf, and helical structures. <i>Journal of Applied Physics</i> , 1995, 77, 1201-1206.	2.5	15
126	Observation of an SmC $\hat{I}$ * phase in an antiferroelectric liquid crystal using pyroelectrics and dielectrics. <i>Journal of Materials Chemistry</i> , 1999, 9, 1383-1385.	6.7	15



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127	Infrared Dichroism and Vibrational Spectroscopy of a Side Chain Polyacrylate Liquid Crystalline Polymer. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 237, 337-350.	0.3	14
128	Optical rotatory power, biaxiality, and models of chiral tilted smectic phases. <i>Physical Review E</i> , 2003, 68, 021702.	2.1	14
129	Propagation of an electromagnetic wave in an absorbing anisotropic medium and infrared transmission spectroscopy of liquid crystals. <i>Journal of Chemical Physics</i> , 2005, 122, 174901.	3.0	14
130	Dielectric spectroscopy of the twist grain boundary phase and smectic-like behaviour in the Isotropic Phase. <i>Liquid Crystals</i> , 2005, 32, 1045-1051.	2.2	14
131	Orientation polarization from faster motions in the ultraviscous and glassy diethyl phthalate and its entropy. <i>Journal of Chemical Physics</i> , 2006, 124, 044513.	3.0	14
132	Dynamic Mechanism of the Ferroelectric to Antiferroelectric Phase Transition in Chiral Smectic Liquid Crystals. <i>Physical Review Letters</i> , 2008, 101, 097801.	7.8	14
133	Biaxial order parameter in the homologous series of orthogonal bent-core smectic liquid crystals. <i>Physical Review E</i> , 2013, 88, 012504.	2.1	14
134	Electrical and electro-optical parameters of 4- $\beta$ -octyl-4-cyanobiphenyl nematic liquid crystal dispersed with gold and silver nanoparticles. <i>Liquid Crystals</i> , 0, , 1-11.	2.2	14
135	Anomalous temperature dependence of layer spacing of de Vries liquid crystals: Compensation model. <i>Applied Physics Letters</i> , 2016, 108, 243301.	3.3	14
136	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
137	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
138	Dielectric anomalies in barium strontium niobate. <i>Ferroelectrics</i> , 1981, 38, 865-868.	0.6	13
139	On the V-shaped switching in antiferroelectric liquid crystals. <i>Ferroelectrics</i> , 2000, 246, 35-42.	0.6	13
140	Dielectric relaxation and crystallization of nanophase separated 1-propanol-isoamylbromide mixture. <i>Journal of Chemical Physics</i> , 2007, 127, 094507.	3.0	13
141	Properties of the self-deforming N <sub>TB</sub> phase in mesogenic dimers. <i>Proceedings of SPIE</i> , 2013, , .	0.8	13
142	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
143	Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and ( <i>R,R</i> ) Tj ETQq1 1 0.784314 rgBT /Overlo	2.1	13
144	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

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145	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
146	Dielectric Relaxation and Molecular Structure. III. Dielectric Relaxation Study of Some Anilines in Benzene Solutions at Different Temperatures. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 17-20.	3.2	12
147	Submillimetre wave spectroscopy of 4-n-alkyl-4-cyano biphenyl liquid crystals. <i>Liquid Crystals</i> , 1989, 4, 529-542.	2.2	12
148	High-frequency dielectric behavior of a ferroelectric liquid crystal near the smectic-C* $\rightarrow$ smectic-A phase transition. <i>Physical Review A</i> , 1992, 46, 4852-4858.	2.5	12
149	On the internal field correction in far-infrared absorption of highly polar molecules in neat liquids and dilute solutions. <i>Journal of Chemical Physics</i> , 1993, 99, 2506-2510.	3.0	12
150	Dielectric study of the electroclinic effect in the smectic-A phase. <i>Physical Review E</i> , 1994, 50, 2109-2114.	2.1	12
151	Wideband (from 0 to 1000 $\text{cm}^{-1}$ ) dielectric/FIR spectra of ordinary and heavy water: calculation in terms of the composite harmonic oscillator model. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5289-5299.	2.8	12
152	Molecular orientation and the infrared dichroism of a chiral smectic liquid crystal in a homogeneously aligned cell at different temperature and bias fields. <i>Physical Review E</i> , 2003, 68, 031707.	2.1	12
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154	Temperature-induced sign reversal of biaxiality observed by conoscopy in some ferroelectric SmC* liquid crystals. <i>Physical Review E</i> , 2007, 76, 011709.	2.1	12
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