

Jagdish K Vij

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

330
papers

6,210
citations

37
h-index

61
g-index

343
ext. papers

6,488
ext. citations

3
avg, IF

5.56
L-index

#	Paper	IF	Citations
330	Electrooptic, pyroelectric and dielectric spectroscopic studies of nematic and twist bend nematic phases of achiral hockey-shaped bent-core liquid crystal. <i>Journal of Molecular Liquids</i> , 2022 , 351, 118632 ⁶		1
329	Switching in a Biaxial Smectic A - like Phase. <i>Liquid Crystals Today</i> , 2021 , 30, 20-25	1.9	0
328	The Beauty of Twist-Bend Nematic Phase: Fast Switching Domains, First Order Fr�dericksz Transition and a Hierarchy of Structures. <i>Crystals</i> , 2021 , 11, 621	2.3	3
327	Variety of subphase emerging sequences, the frustration of three main phases, SmC _A [*] , SmC [*] , and SmA, and the long-range interlayer interactions. <i>Physical Review E</i> , 2021 , 104, 014705	2.4	
326	Controlling the formation of heliconical smectic phases by molecular design of achiral bent-core molecules. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3316-3336	7.1	7
325	Design and electro-optic investigations of de Vries chiral smectic liquid crystals for exhibiting broad temperature ranges of SmA* and SmC* phases and fast electro-optic switching. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4859-4868	7.1	4
324	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,	3.9	4
323	Thermochromic luminescence in dual-dye-doped liquid crystal mixture induced by varying the energy transfer rate. <i>Dyes and Pigments</i> , 2020 , 180, 108450	4.6	3
322	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	4.8	15
321	Dielectric study of a subphase stabilized in an exceptionally wide temperature range by a delicate balance of interlayer interactions and thermal fluctuations. <i>Physical Review E</i> , 2020 , 102, 012703	2.4	1
320	Molecular orientational distribution function of a chiral de Vries smectic liquid crystal from birefringence measurements. <i>Journal of Chemical Physics</i> , 2019 , 150, 084901	3.9	5
319	Unexpected electric-field-induced antiferroelectric liquid crystal phase in the SmC _{PH} [*] temperature range and the discrete flexoelectric effect. <i>Physical Review E</i> , 2019 , 100, 010701	2.4	3
318	Investigation of the heliconical smectic SmCSPFhel phase in achiral bent-core mesogens derived from 4-cyanoresorcinol. <i>Physical Review Materials</i> , 2019 , 3,	3.2	9
317	Elucidation of the de Vries behavior in terms of the orientational order parameter, apparent tilt angle, and field-induced tilt angle for smectic liquid crystals by polarized infrared spectroscopy. <i>Physical Review E</i> , 2019 , 100, 052704	2.4	2
316	A modified Langevin-Debye model for investigating the electro-optic behaviour of de Vries smectic liquid crystals. <i>Liquid Crystals</i> , 2019 , 46, 1246-1251	2.3	3
315	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	2.3	11
314	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	3	9

313	Resonant x-ray scattering observation of transitional subphases during the electric-field-induced phase transition in a mixture of Se-containing chiral smectic liquid crystals. <i>Physical Review E</i> , 2018 , 97, 062702	2.4	3
312	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,	3.2	14
311	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	2.4	22
310	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	2.4	16
309	Tunable Transfer of Molecules between Liquid Crystal Microdroplets and Control of Photonic Crystallinity in Isolated Microdroplets. <i>Advanced Optical Materials</i> , 2017 , 5, 1700119	8.1	4
308	Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and (R,R)-2,3-epoxyhexoxy backbone. <i>Physical Review E</i> , 2017 , 96, 042701	2.4	11
307	Ferrielectric six-layer () and several electric-field-induced subphases in AS657 studied by complementary methods, electric-field-induced birefringence and microbeam resonant X-ray scattering. <i>Liquid Crystals</i> , 2017 , 1-19	2.3	4
306	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	3.9	9
305	Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22946-22956	3.6	8
304	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	11.5	21
303	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	7.1	11
302	Chiral smectic-A and smectic-C phases with de Vries characteristics. <i>Physical Review E</i> , 2017 , 95, 062704	2.4	11
301	Definite existence of subphases with eight- and ten-layer unit cells as studied by complementary methods, electric-field-induced birefringence and microbeam resonant x-ray scattering. <i>Physical Review E</i> , 2017 , 96, 012701	2.4	9
300	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,	3.2	11
299	Effective long-range interlayer interactions and electric-field-induced subphases in ferrielectric liquid crystals. <i>Physical Review E</i> , 2016 , 93, 042707	2.4	6
298	The NTB phase in an achiral asymmetrical bent-core liquid crystal terminated with symmetric alkyl chains. <i>Liquid Crystals</i> , 2016 , 1-10	2.3	11
297	Transitional subphases near the electric-field-induced phase transition to the ferroelectric phase in Se-containing chiral smectic liquid crystals observed by resonant x-ray scattering. <i>Physical Review E</i> , 2016 , 94, 052703	2.4	7
296	Spontaneous helix formation in non-chiral bent-core liquid crystals with fast linear electro-optic effect. <i>Nature Communications</i> , 2016 , 7, 11369	17.4	55

295	Flexoelectric polarization in cyanoresorcinol and oxadiazole bent core nematic liquid crystals. <i>Ferroelectrics</i> , 2016 , 495, 28-34	0.6	
294	Anomalous temperature dependence of layer spacing of de Vries liquid crystals: Compensation model. <i>Applied Physics Letters</i> , 2016 , 108, 243301	3.4	12
293	Fast linear electrooptic effect in non-chiral bent-core liquid crystal. <i>Ferroelectrics</i> , 2016 , 495, 35-42	0.6	2
292	Flexoelectric Behavior of a Bimesogenic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 611, 65-70	0.5	9
291	Hierarchy of Periodic Patterns in the Twist-bend Nematic Phase of Mesogenic Dimers. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 611, 180-185	0.5	17
290	Renewed focus on the small temperature change of smectic layer spacing in ferroelectric and antiferroelectric LCs. <i>Liquid Crystals</i> , 2015 , 1-13	2.3	4
289	Dielectric Study of Liquid Crystals with Large Electroclinic Effect. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 610, 193-200	0.5	1
288	Electrical and electro-optical parameters of 4'-octyl-4-cyanobiphenyl nematic liquid crystal dispersed with gold and silver nanoparticles. <i>Liquid Crystals</i> , 2015 , 1-11	2.3	9
287	Hierarchical elasticity of bimesogenic liquid crystals with twist-bend nematic phase. <i>Applied Physics Letters</i> , 2015 , 106, 173102	3.4	67
286	Dielectric Study of Nematic LC Built with Bent-core Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 610, 63-67	0.5	3
285	Occurrence of Five Different Orthogonal Smectic Phases in a Bent-Core (BC) Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 610, 116-121	0.5	2
284	Flexoelectric polarization studies in bent-core nematic liquid crystals. <i>Physical Review E</i> , 2015 , 92, 022502.4	2.4	18
283	Characterisation 2015 , 229-284		
282	1,2,4-oxadiazole-based bent-core liquid crystals with cybotactic nematic phases. <i>ChemPhysChem</i> , 2014 , 15, 1323-35	3.2	57
281	Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. <i>Soft Matter</i> , 2014 , 10, 5003-16	3.6	20
280	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	7.1	44
279	Dielectric and electro-optic studies of a bimesogenic liquid crystal composed of bent-core and calamitic units. <i>Physical Review E</i> , 2014 , 90, 032506	2.4	10
278	Infrared and Raman Spectroscopy of Liquid Crystals 2014 , 1-44		

277	Effect of molecular-scale surface morphology on the surface melting of liquid crystals on self-assembled monolayers. <i>Applied Physics Letters</i> , 2014 , 105, 251601	3.4	9
276	Biaxial order parameter in the homologous series of orthogonal bent-core smectic liquid crystals. <i>Physical Review E</i> , 2013 , 88, 012504	2.4	14
275	Nematic twist-bend phase with nanoscale modulation of molecular orientation. <i>Nature Communications</i> , 2013 , 4, 2635	17.4	442
274	Properties of the self-deforming Ntb phase in mesogenic dimers 2013 ,		11
273	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	2.4	30
272	Gold nanorods embedded discotic nanoribbons. <i>Chemical Communications</i> , 2013 , 49, 978-80	5.8	19
271	Degeneracy lifting due to thermal fluctuations around the frustration point between anticlinic antiferroelectric SmC(A)* and synclinc ferroelectric SmC*. <i>Physical Review E</i> , 2013 , 87, 012502	2.4	11
270	Elastic properties of bimesogenic liquid crystals. <i>Liquid Crystals</i> , 2013 , 40, 681-688	2.3	57
269	Superlattice structures observed in the extraordinary phase sequence and analyzed by the phenomenological Landau model and the partially molecular model. <i>Physical Review E</i> , 2013 , 87, 062506	2.4	11
268	A liquid crystalline phase with uniform tilt, local polar order and capability of symmetry breaking. <i>Advanced Materials</i> , 2013 , 25, 2186-91	24	73
267	Chirality of an achiral bent-core nematic mesogen observed in planar and homeotropic cells under certain boundary conditions. <i>Soft Matter</i> , 2012 , 8, 10479	3.6	12
266	Field-induced periodic chiral pattern in the Nx phase of achiral bimesogens. <i>Applied Physics Letters</i> , 2012 , 101, 234106	3.4	71
265	Nematic Phases in 1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals: Is There a Ferroelectric Switching?. <i>Advanced Functional Materials</i> , 2012 , 22, 1671-1683	15.6	99
264	Biaxial order and a rotation of the minor director in the nematic phase of an organo-siloxane tetrapode by the electric field. <i>Journal of Chemical Physics</i> , 2012 , 136, 094513	3.9	11
263	Physical Properties of SmAb Phase in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012 , 431, 196-201	0.6	4
262	Properties of Non-Tilted Bent-Core Orthogonal Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 553, 140-146	0.5	5
261	Structure and Polymorphism of Biaxial Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 553, 133-139	0.5	3
260	Biaxial Order Parameter in an Achiral Bent-Core Smectic Liquid Crystal. <i>Ferroelectrics</i> , 2012 , 431, 190-195	0.6	1

259	Microsecond linear optical response in the unusual nematic phase of achiral bimesogens. <i>Applied Physics Letters</i> , 2011 , 99, 261903	3.4	129
258	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	2.3	26
257	Physical ageing and the Johari-Goldstein relaxation in molecular glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 783-792	3.9	25
256	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		30
255	Evidence of a polar cybotactic smectic A phase in a new fluorine substituted bent-core compound. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17098		19
254	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	0.5	3
253	A study of a ferroelectric organosiloxane liquid crystal with a high spontaneous polarisation. <i>Liquid Crystals</i> , 2011 , 38, 521-529	2.3	
252	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	2.4	22
251	Dielectric and Optical Study of Biaxial Bent-Core Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 540, 75-81	0.5	6
250	Sequence of four orthogonal smectic phases in an achiral bent-core liquid crystal: evidence for the SmAP _B phase. <i>Physical Review Letters</i> , 2011 , 107, 247801	7.4	36
249	Debye process and dielectric state of an alcohol in a nonpolar solvent. <i>Journal of Chemical Physics</i> , 2011 , 134, 044525	3.9	17
248	Geoffrey Luckhurst elected to the Royal Irish Academy. <i>Liquid Crystals Today</i> , 2011 , 20, 85-86	1.9	
247	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	3.9	17
246	Electric field induced biaxiality and the electro-optic effect in a bent-core nematic liquid crystal. <i>Applied Physics Letters</i> , 2010 , 96, 011106	3.4	54
245	X-ray diffraction study of ferroelectric and antiferroelectric liquid crystal mixtures exhibiting de Vries SmA*-SmC* transitions. <i>Physical Review E</i> , 2010 , 81, 050701	2.4	6
244	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	2.3	25
243	Antiferroelectric and ferroelectric orderings in frustrated chiral tilted smectics and a continuous change from anticlinic SmC A * to synclinic SmC *. <i>Europhysics Letters</i> , 2010 , 90, 56005	1.6	12
242	Spontaneous periodic deformations in nonchiral planar-aligned bimesogens with a nematic-nematic transition and a negative elastic constant. <i>Physical Review Letters</i> , 2010 , 105, 167801	7.4	267

241	Liquid crystal display modes in a nontilted bent-core biaxial smectic liquid crystal. <i>Applied Physics Letters</i> , 2010 , 97, 213505	3.4	42
240	Macroscopic biaxiality and electric-field-induced rotation of the minor director in the nematic phase of a bent-core liquid crystal. <i>Europhysics Letters</i> , 2010 , 91, 66002	1.6	20
239	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, 152903	3.4	17
238	Orientalional order of a ferroelectric liquid crystal with small layer contraction. <i>Physical Review E</i> , 2010 , 82, 031702	2.4	11
237	Molecular model of biaxial ordering in nematic liquid crystals composed of flat molecules with four mesogenic groups. <i>Physical Review E</i> , 2010 , 81, 061702	2.4	28
236	Field-induced transformations in the biaxial order of non-tilted phases in a bent-core smectic liquid crystal. <i>Europhysics Letters</i> , 2010 , 92, 26002	1.6	34
235	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	5.8	58
234	Realization of Field Sequential Color in Simple Matrix Antiferroelectric Liquid Crystal Displays by Utilizing Fast Pretransitional Response. <i>Applied Physics Express</i> , 2009 , 2, 071403	2.4	2
233	Propagation of an electromagnetic wave in an absorbing anisotropic medium and infrared transmission of liquid crystals: comparison with experiments. <i>Physical Review E</i> , 2009 , 80, 021704	2.4	1
232	Optical confirmation of biaxial nematic (Nb) phase in a bent-core mesogen. <i>Applied Physics Letters</i> , 2009 , 95, 183304	3.4	48
231	Anomalous dependence of response time on the electric field in an electroclinic liquid crystal with large induced tilt and polarization. <i>Applied Physics Letters</i> , 2009 , 94, 012901	3.4	5
230	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	2.3	28
229	The effect of confinement on the stability of field induced states and on supercooling in antiferro-ferroelectric phase transitions in chiral smectic liquid crystals. <i>Journal of Applied Physics</i> , 2009 , 106, 073514	2.5	8
228	Evolution of Subphases in a Prototype Binary Mixture System as Observed by Electric-Field-Induced Birefringence and Helical Pitch. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 511, 36/[1506]-49/[1519]	0.5	9
227	Effects of Confinement and Electric Field on the Dielectric Behavior of Smectic- Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 512, 21/[1867]-31/[1877]	0.5	1
226	Conoscopy of chiral smectic liquid crystal cells. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008 , 25, 1820-7	1.8	11
225	Effect of cell surfaces on the stability of chiral smectic-C phases. <i>Physical Review E</i> , 2008 , 78, 021711	2.4	20
224	Electro-optic and dielectric study of the de Vries-type smectic-A* phase exhibiting transitions to smectic-C*A and smectic-C* phases. <i>Physical Review E</i> , 2008 , 77, 041707	2.4	30

223	Mechanism of field-induced unwinding of Sm C * helix and bias field dependencies of dielectric permittivity and effective polarization. <i>Europhysics Letters</i> , 2008 , 82, 26003	1.6	9
222	Solitary wave propagation in surface stabilized ferroelectric liquid crystal cells. <i>Applied Physics Letters</i> , 2008 , 92, 083510	3-4	3
221	Experimental study of high-temperature smectic- C _{F12} phase in chiral smectic liquid crystals that exhibit phase-sequence reversal. <i>Physical Review E</i> , 2008 , 77, 051707	2.4	10
220	Electric-field-dependent dielectric response in the de Vries-type smectic- A phase possessing local orientational order with nanoscale correlation length. <i>Physical Review E</i> , 2008 , 78, 041705	2.4	10
219	V-shaped electro-optic response observed in a chiral ferroelectric smectic liquid crystal. <i>Applied Physics Letters</i> , 2008 , 93, 093507	3-4	2
218	Antiferroelectric dielectric relaxation processes and the interlayer interaction in antiferroelectric liquid crystals. <i>Applied Physics Letters</i> , 2008 , 93, 142903	3-4	17
217	Behaviour of Smectic Phases in Free Standing Film Geometry: Discontinuous Change in the Tilt Angle of Polar Smectic Phases at the Phase Transition Temperature. <i>Ferroelectrics</i> , 2008 , 365, 95-102	0.6	2
216	Gradual phase transition between the smectic- C and smectic- C _A phases and the thresholdless antiferroelectricity. <i>Physical Review E</i> , 2008 , 78, 041702	2.4	19
215	Dynamic mechanism of the ferroelectric to antiferroelectric phase transition in chiral smectic liquid crystals. <i>Physical Review Letters</i> , 2008 , 101, 097801	7.4	13
214	Experimental study of de Vries properties in antiferroelectric smectic liquid crystals. <i>European Physical Journal E</i> , 2008 , 27, 397-405	1.5	17
213	Structure-dependent dc conductivity and relaxation time in the Debye-Stokes-Einstein equation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11201-8	3-4	15
212	Advances in Microwave and Submillimeter-Wave Dielectric Spectroscopic Techniques and their Applications. <i>Advances in Chemical Physics</i> , 2007 , 775-837		5
211	Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. <i>Journal of Chemical Physics</i> , 2007 , 126, 034512	3.9	26
210	The Structure and Properties of Antiferroelectric Liquid Crystals. <i>Advances in Chemical Physics</i> , 2007 , 271-316		2
209	Orientalional Effects in Ferroelectric and Antiferroelectric Liquid Crystals using Infrared Spectroscopy. <i>Advances in Chemical Physics</i> , 2007 , 203-269		9
208	Conformational distribution of a ferroelectric liquid crystal revealed using fingerprint vibrational spectroscopy and the density functional theory. <i>Journal of Chemical Physics</i> , 2007 , 126, 224904	3.9	9
207	Dielectric relaxation and crystallization of nanophase separated 1-propanol-isoamylbromide mixture. <i>Journal of Chemical Physics</i> , 2007 , 127, 094507	3.9	13
206	Modulated Hexatic-B* with giant electroclinic effect rather than anticlinic Hexatic-I A * A novel mechanism for stabilizing antiferroelectricity below Smectic-C A *. <i>Europhysics Letters</i> , 2007 , 77, 36004	1.6	16

205	Experimental study for the conditions of analog switching in ferroelectric liquid crystal cells. <i>Applied Physics Letters</i> , 2007 , 91, 052911	3.4	9
204	Solitary wave propagation in antiferroelectric liquid crystal cells and the quadrupolar term in the interlayer interaction. <i>Physical Review E</i> , 2007 , 76, 011708	2.4	16
203	The Role of Spontaneous Polarization and the Thickness of Alignment Layers on the V-Shaped Switching in FLC Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2007 , 477, 223-231	0.5	1
202	Discontinuous change in the smectic layer thickness in ferroelectric liquid crystals. <i>Physical Review E</i> , 2007 , 75, 042701	2.4	18
201	Molecular orientational properties of a high-tilt chiral smectic liquid crystal determined from its infrared dichroism. <i>Physical Review E</i> , 2007 , 76, 051707	2.4	3
200	Sign reversals in the dielectric anisotropy as functions of temperature and frequency in SmA* phase. <i>Applied Physics Letters</i> , 2007 , 91, 042907	3.4	3
199	Comment on "Optical and Resonant X-Ray Diffraction Studies Confirm a SmCFI2*-SmC* Liquid Crystal Phase Sequence Reversal". <i>Physical Review Letters</i> , 2007 , 98, 219801	7.4	5
198	Temperature-induced sign reversal of biaxiality observed by conoscopy in some ferroelectric Sm-C* liquid crystals. <i>Physical Review E</i> , 2007 , 76, 011709	2.4	10
197	Interlayer interactions and the dependence of biaxiality of the chiral smectic-C* phase on electric field in the helical unwinding process. <i>Physical Review E</i> , 2007 , 75, 051705	2.4	10
196	Structure and Orientation of Molecules in Discotic Liquid Crystals Using Infrared Spectroscopy. <i>Advances in Chemical Physics</i> , 2007 , 341-486		3
195	The effect of ions on the permittivity and dielectric relaxation of an uncrystallizable heptanol. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 506208	1.8	8
194	The significance of polarizability in the analysis of liquid dielectric behaviour. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 234-241	3	2
193	Electric field-induced birefringence, optical rotatory power and conoscopic measurements of a chiral antiferroelectric smectic liquid crystal. <i>Liquid Crystals</i> , 2007 , 34, 963-973	2.3	12
192	Kinetics of spontaneous change in the localized motions of D-sorbitol glass. <i>Journal of Chemical Physics</i> , 2006 , 124, 74509	3.9	32
191	Orientation polarization from faster motions in the ultraviscous and glassy diethyl phthalate and its entropy. <i>Journal of Chemical Physics</i> , 2006 , 124, 044513	3.9	14
190	Orientalional order and dynamics of the dendritic liquid crystal organo-siloxane tetrapodes determined using dielectric spectroscopy. <i>Physical Review E</i> , 2006 , 73, 051702	2.4	28
189	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-C* transition. <i>Physical Review E</i> , 2006 , 74, 051706	2.4	29
188	Surface-induced multiple reentrant transitions. <i>Physical Review E</i> , 2006 , 73, 041704	2.4	11

187	Investigations of nanoscale helical pitch in smectic-C* α and smectic-C* phases of a chiral smectic liquid crystal using differential optical reflectivity measurements. <i>Physical Review E</i> , 2006 , 74, 011701	2.4	22
186	Analysis of the vibrational spectra of chiral liquid crystalline thioesters. <i>Liquid Crystals</i> , 2006 , 33, 219-225.	2.3	4
185	Study of the SmC β Phase in the Tokyo Mixture by Conoscopy Using Tilted Cell. <i>Ferroelectrics</i> , 2006 , 344, 41-47	0.6	6
184	Theory of the intermediate tilted smectic phases and their helical rotation. <i>Physical Review E</i> , 2006 , 74, 011705	2.4	37
183	Investigation of de Vries SmA* mesophases in low molecular weight organosiloxane compounds. <i>Journal of Materials Chemistry</i> , 2006 , 16, 842-849		29
182	Dichroic Properties and the Molecular Tilt Angle of a Large-Tilt Angle Antiferroelectric Liquid Crystal Studied Using Polarized Infrared Spectroscopy. <i>Ferroelectrics</i> , 2006 , 343, 167-175	0.6	3
181	Investigation into the orientation of the liquid-crystal mixture E7 in composite photonic crystals based on single-crystal silicon. <i>Physics of the Solid State</i> , 2006 , 48, 384-391	0.8	
180	Design of Siloxane Liquid Crystals Forming a De Vries SmA* Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 439, 245/[2111]-257/[2123]	0.5	8
179	Fractional rotational diffusion of rigid dipoles in an asymmetrical double-well potential. <i>Physical Review E</i> , 2005 , 72, 011103	2.4	7
178	1D photonic crystal fabricated by wet etching of silicon. <i>Optical Materials</i> , 2005 , 27, 831-835	3.3	43
177	Polarized infrared and Raman spectroscopy studies of the liquid crystal E7 alignment in composites based on grooved silicon. <i>Semiconductors</i> , 2005 , 39, 759-767	0.7	8
176	Antiferroelectric Liquid Crystal with ¹³ C Isotope Studied Using FT-IR Spectroscopy and the Density Functional Theory Calculations. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 437, 269/[1513]-278/[1522]	0.5	1
175	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	2.4	44
174	Two kinds of smectic-C(α)* 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	2.4	41
173	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	3.9	14
172	Self-assembly of biaxial ordering and molecular tilt angle of chiral smectic liquid crystals in homeotropically aligned cells investigated using infrared spectroscopy. <i>Physical Review E</i> , 2005 , 72, 041704	2.4	10
171	Evidence for de Vries structure in a smectic-A liquid crystal observed by polarized Raman scattering. <i>Physical Review E</i> , 2005 , 71, 041705	2.4	35
170	Dielectric spectroscopy of the twist grain boundary phase and smectic-like behaviour in the Isotropic Phase. <i>Liquid Crystals</i> , 2005 , 32, 1045-1051	2.3	14

169	Profiles of the Director Across a Surface-Stabilized Ferroelectric Liquid Crystal Cell and the Corresponding Pyroelectric Current Spectra. <i>Ferroelectrics</i> , 2004 , 311, 21-32	0.6	
168	Johari-Goldstein relaxation and crystallization of sorbitol to ordered and disordered phases. <i>Journal of Chemical Physics</i> , 2004 , 120, 5455-62	3.9	22
167	Thermotropic biaxial nematic phase in liquid crystalline organo-siloxane tetrapodes. <i>Physical Review Letters</i> , 2004 , 93, 237801	7.4	184
166	The orientational order parameters of a dendritic liquid crystal organo-siloxane tetrapode oligomer, determined using polarized infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2004 , 121, 5012-21	3.9	42
165	Study of the de Vries Phase in New Organosiloxanes by Electrooptical and UV/Vis Spectroscopy Measurements. <i>Ferroelectrics</i> , 2004 , 310, 111-116	0.6	6
164	Molecular Structure of a Partly Deuterated Chiral Smectic Liquid Crystal Studied by Polarized FTIR Spectroscopy. <i>Ferroelectrics</i> , 2004 , 311, 97-109	0.6	3
163	Far infrared spectroscopy of water at different temperatures: GHz to THz dielectric spectroscopy of water. <i>Journal of Molecular Liquids</i> , 2004 , 112, 125-135	6	57
162	The Critical Behavior of the Order Parameter and Susceptibility Near Smectic A \rightarrow Smectic C Phase Transition. <i>Ferroelectrics</i> , 2004 , 310, 117-123	0.6	6
161	Structure and Properties of New de Vries SmA* Liquid Crystals. <i>Ferroelectrics</i> , 2004 , 309, 111-118	0.6	10
160	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	2.4	24
159	Refractive index at infrared wavelengths and dielectric permittivity of pure and fluorinated silicon dioxide from measurements of their thin films deposited on Si. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1362-1370	3	11
158	FTIR and Raman investigation of vertically etched silicon as a 1D photonic crystal 2003 ,		8
157	Comment on Submillimeter spectroscopic study of concentrated electrolyte solutions as high density plasma[J. Chem. Phys. 116, 5701 (2002)]. <i>Journal of Chemical Physics</i> , 2003 , 118, 9457-9458	3.9	
156	Vertically etched silicon as 1D photonic crystal. <i>Physica Status Solidi A</i> , 2003 , 197, 544-548		25
155	IR birefringence in artificial crystal fabricated by anisotropic etching of silicon. <i>Semiconductors</i> , 2003 , 37, 399-403	0.7	3
154	Molecular arrangement in a chiral smectic liquid crystal cell studied by polarized infrared spectroscopy. <i>Liquid Crystals</i> , 2003 , 30, 149-156	2.3	8
153	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	2.4	47
152	Measurement of the polarization profile across a surface-stabilized ferroelectric liquid crystal cell using the pyroelectric laser-intensity-modulation method. <i>Journal of Applied Physics</i> , 2003 , 93, 159-164	2.5	4

151	Relaxation strength of localized motions in D-sorbitol and mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2003 , 119, 435-442	3.9	51
150	Order Parameter, Alignment and Anchoring Transition in Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2003 , 397, 231-244	0.5	28
149	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, 031707-4	7.4	12
148	Optical rotatory power, biaxiality, and models of chiral tilted smectic phases. <i>Physical Review E</i> , 2003 , 68, 021702	2.4	13
147	Dielectric studies on charge hopping in melanin polymer. <i>Journal of Molecular Structure</i> , 2002 , 606, 205-210	3.0	33
146	Orientation of discotic and ferroelectric liquid crystals in a macroporous silicon matrix. <i>Physics of the Solid State</i> , 2002 , 44, 1196-1202	0.8	1
145	Localized relaxation strength and its mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2002 , 116, 5908-5909	3.9	58
144	Localized relaxation in a glass and the minimum in its orientational polarization contribution. <i>Journal of Chemical Physics</i> , 2002 , 117, 1714-1722	3.9	34
143	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	3.9	29
142	FTIR study of a chiral tilted SmA liquid crystalline phase. <i>Europhysics Letters</i> , 2002 , 57, 184-190	1.6	8
141	The Biaxiality of the Chiral Smectic Subphases in Very Thin Freestanding Films. <i>Ferroelectrics</i> , 2002 , 278, 47-55	0.6	7
140	Orientalional Order and Dynamics of Nematic Multipodes Based on Carbosilazane Cores Using Optical and Dielectric Spectroscopy. <i>Macromolecules</i> , 2002 , 35, 8601-8608	5.5	26
139	The Study of the Surface Electroclinic Effect Using Different Aligning Materials. <i>Ferroelectrics</i> , 2002 , 278, 151-159	0.6	4
138	Wideband (from 0 to 1000 cm ⁻¹) dielectric/FIR spectra of ordinary and heavy water: calculation in terms of the composite hat curved harmonic oscillator model. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5289-5299	3.6	12
137	Effect of Electric Field on the Correlation Between the Phenyl Ring and the Alkyl Chain of an Antiferroelectric Liquid Crystal Using Polarised FTIR Spectroscopy. <i>Ferroelectrics</i> , 2002 , 277, 229-237	0.6	1
136	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	2.3	17
135	ALIGNMENT INSTABILITY INDUCED BY IRRADIATION OF VISIBLE LIGHT IN FRUSTOELECTRIC LIQUID CRYSTALLINE CELLS SHOWING THE V-SHAPED SWITCHING. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 366, 785-795		
134	Dependence of the molecular orientational states on the surface conditions for the "V-shaped switching" in a ferroelectriclike liquid crystal sample. <i>Physical Review E</i> , 2001 , 64, 040701	2.4	8

133	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	2.4	24
132	Surface molecular alignment by in-plane anchoring in the cell showing the V-shaped switching. <i>Applied Physics Letters</i> , 2001 , 79, 940-942	3.4	8
131	Effects of induced steric hindrance on the dielectric behavior and H bonding in the supercooled liquid and vitreous alcohol. <i>Journal of Chemical Physics</i> , 2001 , 114, 4634	3.9	73
130	Nonexponential dielectric relaxation dynamics in supercooled liquid and glassy states of isoamyl bromide and 2-methylpentane mixtures. <i>Journal of Chemical Physics</i> , 2001 , 114, 2718-2726	3.9	9
129	The concept of two stochastic processes in liquid water and analytical theory of the complex permittivity in the wavenumber range 0–1000 cm ⁻¹ . <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 5173-5181	3.6	24
128	Orientalional/translational relaxation in aqueous electrolyte solutions: a molecular model for microwave/far-infrared ranges. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 523-534	3.6	5
127	A field-reversal method for measuring the parameters of a ferroelectric liquid crystal. <i>Liquid Crystals</i> , 2001 , 28, 615-620	2.3	17
126	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	2.8	28
125	Nature of the boson peak in Raman spectra of sodium borate glass systems: influence of structural and chemical fluctuations and intermolecular interactions. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 819-825	2.3	9
124	Dielectric and pyroelectric studies of an antiferroelectric liquid crystal. <i>Crystallography Reports</i> , 2000 , 45, 682-686	0.6	2
123	On the V-shaped switching in antiferroelectric liquid crystals. <i>Ferroelectrics</i> , 2000 , 246, 35-42	0.6	12
122	Ferrielectric liquid crystal subphase studied by polarized fourier-transform infrared spectroscopy. <i>Physical Review E</i> , 2000 , 62, 2269-78	2.4	17
121	Field-induced phase transitions in an antiferroelectric liquid crystal using the pyroelectric effect. <i>Physical Review E</i> , 2000 , 62, 2279-87	2.4	28
120	A comparison of orientational behaviour and rotational bias in SmC*, SmCa* and SmC ₂ phases of an antiferroelectric liquid crystal studied by FT-IR spectroscopy. <i>Ferroelectrics</i> , 2000 , 244, 175-182	0.6	1
119	The exponential dielectric relaxation dynamics in a secondary alcohol ¹ supercooled liquid and glassy states. <i>Journal of Chemical Physics</i> , 2000 , 112, 3262-3266	3.9	65
118	Alignment instability caused by anchoring of the in-plane directors to the rubbing direction in the V-shaped switching. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2791-2794		11
117	Polarized ftir spectroscopic study of a high-temperature ferrielectric phase of an antiferroelectric liquid crystal. <i>Ferroelectrics</i> , 2000 , 245, 27-34	0.6	1
116	The relaxation phenomena in antiferroelectric and ferrielectric phases. <i>Ferroelectrics</i> , 2000 , 245, 91-99	0.6	3

115	A comparison of orientational behaviour and rotational bias in SmC*, SmCa* and SmC \boxtimes phases of an antiferroelectric liquid crystal studied by FT-IR spectroscopy. <i>Ferroelectrics</i> , 2000 , 244, 183-190	0.6	3
114	Investigation of the thickness mode in surface stabilized ferroelectric liquid crystal cells. <i>Liquid Crystals</i> , 1999 , 26, 717-722	2.3	9
113	Rotational bias of an antiferroelectric liquid crystal studied by polarized Fourier transform infrared spectroscopy. <i>Physical Review E</i> , 1999 , 59, 551-555	2.4	32
112	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	3.4	15
111	Infrared study of the orientational order of the mesogen in discotic phases of hexapentyloxytriphenylene and hexaheptyloxytriphenylene. <i>Journal of Molecular Structure</i> , 1999 , 511-512, 271-276	3.4	5
110	Molecular dynamics of iso-amyl bromide by dielectric spectroscopy, and the effects of a nonpolar solvent, 2-methylpentane, on the spectral features. <i>Journal of Chemical Physics</i> , 1999 , 111, 10979-10985 ^{3.9}		19
109	Observation of a possible random ferroelectric liquid crystal phase. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2967-2969		44
108	Observation of an SmC \boxtimes phase in an antiferroelectric liquid crystal using pyroelectrics and dielectrics. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1383-1385		15
107	Multiplexing performance of a FLC with high spontaneous polarization in the bookshelf structure. <i>Ferroelectrics</i> , 1998 , 213, 125-132	0.6	
106	The relaxation processes in helical antiferroelectric liquid crystals. <i>Ferroelectrics</i> , 1998 , 213, 101-108	0.6	4
105	The investigation of the relaxation processes in antiferroelectric liquid crystals by electro-optic spectroscopy. <i>Applied Physics Letters</i> , 1998 , 72, 1667-1669	3.4	56
104	Observation of an anchoring transition in a discotic liquid crystal. <i>Europhysics Letters</i> , 1998 , 44, 198-204	1.6	32
103	The investigation of the relaxation processes in antiferroelectric liquid crystals by broad band dielectric and electro-optic spectroscopy. <i>Liquid Crystals</i> , 1998 , 25, 241-252	2.3	109
102	3-D orientation and switching studies of FLCs using ATR FTIR spectroscopy. <i>Ferroelectrics</i> , 1998 , 214, 1-8	0.6	3
101	Polarised infrared spectroscopy for the study of 3-dimensional orientations of FLC molecules. <i>Ferroelectrics</i> , 1998 , 214, 83-91	0.6	4
100	Observation of exotic subphases in an antiferroelectric liquid crystal. <i>Ferroelectrics</i> , 1998 , 212, 239-247	0.6	2
99	Observation and investigation of the ferroelectric subphase with high qT parameter. <i>Physical Review E</i> , 1997 , 55, 4345-4353	2.4	89
98	Investigation of the Ferroelectric Subphase with qT > 1/2 under Bias Voltage. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 301, 215-220		3

97	Dynamics of Collective and Molecular Modes of a Ferroelectric Liquid Crystal in Confined Geometry Using Dielectric Spectroscopy. <i>Physical Review Letters</i> , 1997 , 79, 249-252	7.4	40
96	Orientalional Studies of Discotic Liquid Crystals using Fourier Transform Infrared Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 301, 111-121		5
95	Observation and Investigation of the Ferrielectric Subphase with $qT > 1/2$. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 302, 93-98		1
94	Polarization and dielectric properties of an antiferroelectric liquid crystal. <i>Liquid Crystals</i> , 1997 , 23, 77-86.3		16
93	A Study of Antiferroelectric Liquid Crystals using the Pyroelectric Technique. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 301, 189-194		2
92	Study of orientational ordering in discotic liquid-crystalline thin films by using Fourier transform infra-red spectroscopy. <i>Supramolecular Science</i> , 1997 , 4, 529-534		10
91	Fourier transform infrared study of poly (2-hydroxyethyl methacrylate) PHEMA. <i>Colloid and Polymer Science</i> , 1997 , 275, 323-332	2.4	88
90	Pyroelectric properties of an antiferroelectric liquid crystal. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, L551-6	1.8	4
89	Hydration and plasticization effects in cellulose acetate: molecular motion and relaxation. <i>Faraday Discussions</i> , 1996 , 103, 255	3.6	37
88	Molecular tilt angle and order parameter of low-molar-mass ferroelectric liquid crystal using IR spectroscopy 1996 ,		2
87	Low frequency vibrational spectroscopy of highly viscous and highly polar liquids. <i>Journal of Molecular Liquids</i> , 1996 , 69, 1-17	6	9
86	Primary and secondary relaxations in aliphatic alcohols: Complex dielectric permittivity spectra of 5-methyl 2-hexanol. <i>Journal of Molecular Liquids</i> , 1996 , 69, 19-29	6	1
85	Study of the molecular orientation in a chiral smectic liquid crystal mixture using infrared dichroism. <i>Ferroelectrics</i> , 1996 , 180, 105-115	0.6	2
84	Angular dependence of absorbance on the polarization angle of an IR beam in liquid crystals. <i>Liquid Crystals</i> , 1996 , 21, 147-151	2.3	28
83	Dispersive fourier transform far-infrared spectroscopy of aliphatic ketones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1995 , 51, 533-548	4.4	4
82	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	13
81	In-plane anchoring energy in ferroelectric liquid crystals: Evidence for its existence and measurement. <i>Physical Review E</i> , 1995 , 52, R17-R20	2.4	11
80	Study of the Ionic Dynamics in a Polysiloxane Ferroelectric Liquid Crystal Polymer Using Optical Contrast and Dielectric Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1995 , 261, 501-511		4

79	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	22
78	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	25
77	In Spectroscopic Study of the Electric Field Induced Phase Transition of a Ferroelectrically Switchable Columnar Dibenzopyrene. <i>Molecular Crystals and Liquid Crystals</i> , 1995 , 263, 293-303		8
76	Degradation of Optical Bistability in Surface Stabilized Ferroelectric Liquid Crystal (SSFLC) Cells. <i>Molecular Crystals and Liquid Crystals</i> , 1995 , 263, 169-177		5
75	Study of the order parameter of thin films of a main-chain discotic liquid crystalline polymer using Fourier transform infra-red spectroscopy. <i>Supramolecular Science</i> , 1995 , 2, 51-58		6
74	The influence of surface structure on the discotic liquid crystalline alignment. an infrared spectroscopy study. <i>Advanced Materials</i> , 1995 , 7, 919-922	24	63
73	Dielectric Response of Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, 2648-2650	1.4	38
72	Dielectric response of surface stabilized ferroelectric liquid crystal cells. <i>Physical Review E</i> , 1994 , 50, 4763-4772	2.4	49
71	Dielectric and electro-optical studies of a ferroelectric copolysiloxane. <i>Physical Review B</i> , 1994 , 50, 16346-16356	2.5	66
70	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	37
69	On the relationship between electro-optic and dielectric parameters of a smectic C* ferroelectric liquid crystal. <i>Liquid Crystals</i> , 1994 , 17, 741-744	2.3	3
68	Dielectric study of the electroclinic effect in the smectic-A phase. <i>Physical Review E</i> , 1994 , 50, 2109-2114	2.4	12
67	Characterization of model anaerobic adhesive cure using real-time fourier transform infrared spectroscopy and dielectric spectroscopy. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 737-746	2.9	9
66	Dielectric spectroscopy of anaerobic adhesive cure. <i>International Journal of Adhesion and Adhesives</i> , 1994 , 14, 211-236	3.4	6
65	Wide-band dielectric spectroscopy of hydrated poly(hydroxyethyl methacrylate). <i>Polymer</i> , 1994 , 35, 227-234	3.4	26
64	Investigations into the cure of model anaerobic adhesives using dielectric spectroscopy. <i>Polymer</i> , 1994 , 35, 939-948	3.9	5
63	Infrared spectroscopic study of a phenyl benzoate side group methacrylate main chain polymeric liquid crystal. <i>Liquid Crystals</i> , 1994 , 16, 783-803	2.3	27
62	Optical contrast spectroscopy of ferroelectric liquid crystal cells. <i>Ferroelectrics</i> , 1993 , 148, 401-409	0.6	2

61	Infrared absorption study of hexapentyloxytriphenylene A discotic liquid crystal. <i>Liquid Crystals</i> , 1993 , 14, 807-819	2.3	44
60	Infrared Dichroism and Vibrational Spectroscopy of a Side Chain Polyacrylate Liquid Crystalline Polymer. <i>Molecular Crystals and Liquid Crystals</i> , 1993 , 237, 337-350		12
59	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	3.9	10
58	The high frequency dielectric response of a ferroelectric liquid crystal. <i>Liquid Crystals</i> , 1993 , 14, 469-473	2.3	
57	DiCl6b: Dielectric relaxation spectroscopy of a model anaerobic adhesive. <i>Ferroelectrics</i> , 1992 , 133, 151-158		3
56	High-frequency dielectric behavior of a ferroelectric liquid crystal near the smectic-C*-smectic-A phase transition. <i>Physical Review A</i> , 1992 , 46, 4852-4858	2.6	12
55	Study of the molecular tilt angle and the order parameter of a ferroelectric liquid crystal mixture using IR spectroscopy. <i>Liquid Crystals</i> , 1992 , 12, 1005-1012	2.3	33
54	Dielectric spectroscopy and molecular dynamics of methylene chloride CH ₂ Cl ₂ . <i>Journal of Molecular Liquids</i> , 1991 , 49, 1-16	6	4
53	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1991 , 39, 1611-1616	4.1	3
52	Complex permittivity measurements of acetone in the frequency region 50B10 GHz. <i>Molecular Physics</i> , 1991 , 72, 353-361	1.7	17
51	Dielectric relaxation and libration spectroscopy of some aliphatic ketones and their molecular behavior. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 6142-6148		21
50	Correlated reorientations in NH ₄ Al(SO ₄) ₂ .12H ₂ O single. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 5433-5438	1.8	9
49	Molecular dynamics of a liquid crystal in decalin glass at radio and far infrared frequencies. <i>Journal of Chemical Physics</i> , 1989 , 90, 1974-1979	3.9	3
48	Millimeter and submillimeter laser spectroscopy of water. <i>Chemical Physics Letters</i> , 1989 , 155, 153-156	2.5	24
47	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1989 , 38, 85-91	5.2	3
46	Far infrared spectra of octyl and nonyl cyanobiphenyl liquid crystals. <i>Journal of Molecular Liquids</i> , 1989 , 43, 109-123	6	4
45	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	1.7	22
44	Power absorption coefficient constants for water, acetonitrile, and methylene chloride at far infrared wavelengths. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1989 , 10, 847-867		9

43	Submillimetre wave spectroscopy of 4-n-alkyl-4'-cyano biphenyl liquid crystals. <i>Liquid Crystals</i> , 1989 , 4, 529-542	2.3	11
42	Millimetre- and submillimetre-wave laser spectrometer for liquids: power and refractive index spectra of acetonitrile and methyl iodide. <i>Journal of Physics E: Scientific Instruments</i> , 1989 , 22, 749-755		6
41	A high-frequency rotational mode in acetonitrile and methyl iodide in dilute solutions. <i>Chemical Physics Letters</i> , 1988 , 150, 211-216	2.5	5
40	On the temperature dependence of the equal frictions itinerant oscillator model. <i>Molecular Physics</i> , 1988 , 63, 477-496	1.7	9
39	Far infrared spectra of the tetrahydrocarbons CBr ₄ and CCl ₄ . <i>Journal of Chemical Physics</i> , 1987 , 87, 3357-3359	3.9	7
38	A new far-infrared broadband absorption in non-rigid polar molecules. <i>Chemical Physics Letters</i> , 1987 , 139, 77-81	2.5	4
37	The dynamics of liquid water: Simulation and submillimeter spectroscopy. <i>Journal of Molecular Liquids</i> , 1987 , 34, 285-306	6	16
36	Dielectric absorption in hydrocarbon polymers with non-polar additives. <i>Chemical Physics</i> , 1987 , 115, 319-323	2.3	1
35	Inertia-corrected Budġ 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	2.5	16
34	Low-temperature dielectric absorption of polypropylene containing light alkanes. <i>Chemical Physics</i> , 1986 , 106, 293-301	2.3	1
33	Decrease in frequency of maximum far-infra-red power absorption of polar fluids with temperature. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1986 , 8, 369-378		4
32	Some new FIR laser lines of optically pumped ¹² CH ₃ ¹⁶ OH, ¹² CH ₃ ¹⁶ OD, and ¹² CH ₃ ¹ I, ¹² CH ₃ Br, ¹² CD ₂ Cl ₂ absorption spectroscopy of water and acetonitrile. <i>IEEE Journal of Quantum Electronics</i> , 1986 , 22, 1123-1130	2	15
31	Brownian motion in a periodic potential: Application to dielectric relaxation. <i>European Physical Journal B</i> , 1985 , 58, 187-198	1.2	25
30	Nonlinear Budġ model for dielectric relaxation: Comparison with new experimental data. <i>European Physical Journal B</i> , 1985 , 61, 357-366	1.2	21
29	Variable Angle Submillimetre Laser Reflection Spectroscopy of Semiconductors. <i>Physica Scripta</i> , 1984 , 30, 152-156	2.6	
28	Submillimetre laser spectroscopy of intensely absorbing liquids. <i>Journal of Molecular Liquids</i> , 1984 , 29, 37-43	6	6
27	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	3.9	13
26	Pressure and temperature dependence of the permittivity and density of 1,1-dimethoxy-2-propanone. <i>Journal of Chemical Physics</i> , 1983 , 79, 6182-6188	3.9	2

25	Molecular dynamics of methanol. <i>Molecular Physics</i> , 1983 , 50, 935-947	1.7	27
24	Microwave and far-infra-red dielectric absorption inn-alkanes. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1983 , 2, 751-762		6
23	Far-infrared study of reorientational motion in diphenyl ether. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1982 , 78, 1649		9
22	On the analysis of dielectric absorption spectra in terms of correlation functions. <i>Molecular Physics</i> , 1982 , 47, 23-31	1.7	4
21	The complex permittivity of six n-alkanes; measurements in the far infrared. <i>Journal Physics D: Applied Physics</i> , 1982 , 15, 1279-1283	3	6
20	Submillimetre laser and interferometric spectroscopy of the alkyl alcohols. <i>Chemical Physics Letters</i> , 1982 , 92, 528-532	2.5	18
19	Dielectric relaxation of nitroalkanes in dilute solutions. <i>Advances in Molecular Relaxation and Interaction Processes</i> , 1982 , 22, 177-186		4
18	Molecular dynamics of CH ₂ Cl ₂ : temperature dependences of the far infra-red spectrum. Part 1: experimental and simulation. <i>Advances in Molecular Relaxation and Interaction Processes</i> , 1982 , 22, 79-87		5
17	Pressure, Temperature, and Frequency Dependence of the Dielectric Properties of Strontium Barium Niobate. <i>Physica Status Solidi A</i> , 1982 , 74, 225-232		19
16	The pressure and temperature dependence of the complex permittivity of heptanol isomers. <i>Journal Physics D: Applied Physics</i> , 1981 , 14, 733-746	3	36
15	Dielectric anomalies in barium strontium niobate. <i>Ferroelectrics</i> , 1981 , 38, 865-868	0.6	11
14	The pressure and temperature dependence of the static permittivity and density of heptanol isomers. <i>Journal Physics D: Applied Physics</i> , 1978 , 11, 545-559	3	39
13	Calibration of a metallic bellows dilatometer. <i>Journal of Physics E: Scientific Instruments</i> , 1977 , 10, 874-876		8
12	Dielectric Relaxation in Some Substituted Benzaldehydes in Benzene at Different Temperatures. <i>Bulletin of the Chemical Society of Japan</i> , 1976 , 49, 2869-2871	5.1	5
11	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	5.1	20
10	Errors due to lead impedance in high pressure measurements of relative permittivity. <i>Journal of Physics E: Scientific Instruments</i> , 1976 , 9, 735-738		4
9	The dielectric polarizability of benzene as a function of temperature and pressure. <i>Journal of Chemical Physics</i> , 1976 , 64, 2226-2228	3.9	25
8	Dielectric Relaxation in Substituted Benzaldehydes. <i>Bulletin of the Chemical Society of Japan</i> , 1975 , 48, 2551-2556	5.1	7

7	The electrical conductivity of benzene subjected to hydrostatic pressure. <i>Journal Physics D: Applied Physics</i> , 1975 , 8, L56-L58	3	2
6	Dielectric Relaxation and Molecular Structure. IV. Dielectric Relaxation and Hydrogen Bonding in Chloroanilines. <i>Bulletin of the Chemical Society of Japan</i> , 1973 , 46, 1112-1113	5.1	3
5	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	5.1	10
4	Critical analysis of Gopala Krishna's method for determining the dielectric relaxation time. <i>Transactions of the Faraday Society</i> , 1970 , 66, 1087		7
3	Dielectric Relaxation and Molecular Structure. II Dielectric Relaxation in Dibutyl Ether, Diphenyl Ether and Benzophenone in Various Nonpolar Solvents. <i>Bulletin of the Chemical Society of Japan</i> , 1970 , 43, 2313-2316	5.1	9
2	Dielectric Relaxation and Molecular Structure. I. Dielectric Relaxation in Substituted Anilines. <i>Bulletin of the Chemical Society of Japan</i> , 1970 , 43, 2307-2312	5.1	12
1	Large optical anisotropy in the structure of 1D photonic crystal fabricated by vertical etching of silicon		2