

James Emsley

List of Publications by Year in descending order

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docs citations

62
times ranked

608
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chirality of a Twist-Bend Nematic Phase Identified by NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7940-7951.	2.6	129
2	A Comparison of the Conformational Distributions of the Achiral Symmetric Liquid Crystal Dimer CB7CB in the Achiral Nematic and Chiral Twist-Bend Nematic Phases. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6547-6557.	2.6	78
3	Calculation of the Molecular Ordering Parameters of (\pm)-3-Butyn-2-ol Dissolved in an Organic Solution of Poly(13 -benzyl-L-glutamate). <i>Journal of Physical Chemistry A</i> , 1997, 101, 5719-5724.	2.5	77
4	Structure of biphenyl in a nematic liquid-crystalline solvent. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2623.	1.7	49
5	The orientational order and conformational distributions of the two enantiomers in a racemic mixture of a chiral, flexible molecule dissolved in a chiral nematic liquid crystalline solvent. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 522.	2.8	43
6	The conformational distribution in diphenylmethane determined by nuclear magnetic resonance spectroscopy of a sample dissolved in a nematic liquid crystalline solvent. <i>Journal of Chemical Physics</i> , 2003, 118, 6417-6426.	3.0	40
7	Chiral solutes can seed the formation of enantiomeric domains in a twist-bend nematic liquid crystal. <i>Physical Review E</i> , 2013, 87, 040501.	2.1	38
8	The inclusion of electrostatic and dispersion interactions into potentials of mean torque for solutes dissolved in uniaxial liquid crystal solvents. <i>Liquid Crystals</i> , 1991, 9, 643-648.	2.2	36
9	The angle of twist between the two phenyl rings in the nematic liquid crystal 4-n-pentyl-4'-cyanobiphenyl. <i>Liquid Crystals</i> , 1990, 7, 731-737.	2.2	35
10	Computer simulation studies of the dependence on density of the orientational order in nematic liquid crystals. <i>Liquid Crystals</i> , 1992, 11, 519-530.	2.2	35
11	The conformation of the aromatic rings relative to the alkyl chain in 4-n-pentyl-4'-cyanobiphenyl. <i>Liquid Crystals</i> , 1996, 20, 569-575.	2.2	33
12	A comparison of proton-detected ^{13}C local field experiments with deuterium NMR at natural abundance for studying liquid crystals. <i>Liquid Crystals</i> , 2008, 35, 443-464.	2.2	33
13	The structure and orientational ordering of 4-methoxy-4'-cyanobiphenyl in the nematic mesophase. <i>Liquid Crystals</i> , 1990, 7, 1-13.	2.2	31
14	The structure and conformation of a mesogenic compound between almost zero and almost complete orientational order. <i>Liquid Crystals</i> , 2007, 34, 1071-1093.	2.2	31
15	Discrimination and analysis of the NMR spectra of enantiomers dissolved in chiral liquid crystal solvents through 2D correlation experiments. <i>Liquid Crystals</i> , 1996, 21, 427-435.	2.2	30
16	Similarities and differences between molecular order in the nematic and twist-bend nematic phases of a symmetric liquid crystal dimer. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9419-9430.	2.8	30
17	The potential of mean torque for flexible mesogenic molecules. Determination of the interaction parameters from carbon-hydrogen dipolar couplings for 4-alkyl-4'-cyanobiphenyls. <i>Journal of Chemical Physics</i> , 1987, 87, 3099-3103.	3.0	26
18	Internal rotation potential function for anisole in solution: a liquid crystal NMR study. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2466-2470.	2.9	26

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19	Computer simulation of the behaviour of a solute in a model liquid crystalline solvent. <i>Molecular Physics</i> , 1994, 82, 177-192.	1.7	26
20	Magnetic field induced alignment of the directors of a smectic-A liquid crystal. <i>Physical Review E</i> , 1999, 60, 1831-1839.	2.1	26
21	The Structure and Conformations of 2-Thiophenecarboxaldehyde Obtained from Partially Averaged Dipolar Couplings. <i>ChemPhysChem</i> , 2005, 6, 1483-1491.	2.1	26
22	Multiple contributions to potentials of mean torque for solutes dissolved in liquid crystal solvents. A comparison of the orientational ordering of anthracene and anthraquinone as solutes in nematic solvents. <i>Liquid Crystals</i> , 1991, 9, 649-660.	2.2	25
23	Characterisation of the structure, deuterium quadrupolar tensors, and orientational order of acenaphthene, a rigid, prochiral molecule, from the NMR spectra of samples dissolved in nematic and chiral nematic liquid crystalline solvents. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4918-4925.	2.8	24
24	Angle of twist between the two rings of 4-cyanobiphenyl when dissolved in liquid-crystalline solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1679.	1.7	23
25	A comparison of the structure, flexibility and mesogenic properties of 4-methoxy-4'-cyanobiphenyl and the 1,1,1-trifluorinated derivative. <i>Liquid Crystals</i> , 1994, 16, 1037-1049.	2.2	23
26	Is styrene planar in liquid phases?. <i>Journal of Chemical Physics</i> , 2004, 120, 7075-7084.	3.0	23
27	The effect of a chiral nematic solvent on the orientational order and conformational distribution of a flexible prochiral solute. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5331.	2.8	23
28	Systematics of BX ₃ and BX ₂ ⁺ Complexes (X = F, Cl, Br, I) with Neutral Diphosphine and Diarsine Ligands. <i>Inorganic Chemistry</i> , 2016, 55, 8852-8864.	4.0	23
29	The conformation of phenyl benzoate when dissolved in a nematic liquid crystalline solvent. <i>Liquid Crystals</i> , 1996, 21, 877-883.	2.2	22
30	C_{13} NMR study of the director distribution adopted by the modulated nematic phases formed by liquid-crystal dimers with odd numbers of atoms in their spacers. <i>Physical Review E</i> , 2017, 96, 062702.	2.1	20
31	An investigation by N.M.R. spectroscopy of the dependence on internal motion of the orientational ordering of ethoxybenzene and 4-fluoroethoxybenzene when dissolved in a nematic solvent. <i>Liquid Crystals</i> , 1989, 6, 689-700.	2.2	19
32	Molecular dynamics simulation of biphenyl dissolved in a liquid crystalline solvent: A test of theoretical methods of deriving rotational potentials from partially averaged nuclear spin dipolar couplings. <i>Journal of Chemical Physics</i> , 1996, 105, 7026-7033.	3.0	18
33	The shape dependence of the solute-solvent interactions in a liquid crystalline phase: A computer simulation study. <i>Journal of Chemical Physics</i> , 1996, 104, 233-241.	3.0	16
34	The True Liquid Crystal Approach to Mesoporous Silica. <i>Materials Research Society Symposia Proceedings</i> , 1996, 425, 179.	0.1	13
35	The indirect through-space F-F coupling in peri-difluoronaphthalene: is it anisotropic?. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6534.	2.8	13
36	Assignment of the quadrupolar splittings in fully deuteriated alkyl chains of liquid crystalline compounds The case of 4-hexyloxy-4'-cyanobiphenyl. <i>Liquid Crystals</i> , 1994, 17, 303-309.	2.2	12

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37	An NMR study of the conformational flexibility of phenyl acetate dissolved in a nematic liquid crystalline solvent. <i>Liquid Crystals</i> , 1995, 18, 615-621.	2.2	12
38	The conformation and orientational order of a 1,2-disubstituted ethane nematogenic molecule (I22) in liquid crystalline and isotropic phases studied by NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2895.	2.8	12
39	Selective Detection of the Proton NMR Spectra of Molecules Containing Rare Spins at Natural Abundance in Liquid Crystalline Samples. <i>Journal of Magnetic Resonance</i> , 2002, 154, 303-310.	2.1	11
40	An investigation of the structure and bond rotational potential of some fluorinated ethanes by NMR spectroscopy of solutions in nematic liquid crystalline solvents. <i>Journal of Magnetic Resonance</i> , 2006, 180, 245-255.	2.1	11
41	Magnetic Field Induced Dipolar Couplings in the Pretransitional Region of a Nematic Liquid Crystal. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5070-5078.	2.5	9
42	The conformations adopted by alkyl chains in $\hat{1}\pm, \hat{1}\%$ -bis(aryl)alkanes in liquid-crystalline phases. <i>Liquid Crystals</i> , 1993, 13, 265-282.	2.2	8
43	Continuous bond rotation models for the conformational analysis of the methoxy groups in 1,2-dimethoxy- and 1,2,3-trimethoxy-benzene using dipolar couplings obtained from the NMR spectra of oriented samples in nematic liquid crystalline solutions. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, 1211-1218.	0.9	8
44	Tetraethyl stannane: structure, conformations, and orientational order when dissolved in a nematic liquid crystalline solvent. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3726.	2.8	8
45	Benzene at 1GHz. Magnetic field-induced fine structure. <i>Journal of Magnetic Resonance</i> , 2015, 258, 17-24.	2.1	8
46	A general strategy for obtaining ^{19}F and ^{13}C residual dipolar couplings in perfluorocarbons from the NMR spectroscopy of liquid crystalline samples. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7968.	2.8	7
47	The structures and conformations of mesogenic molecules in the pre-transitional region of the isotropic phase: 5OCB and MBBA and their mixtures. <i>Liquid Crystals</i> , 2012, 39, 211-219.	2.2	7
48	Conformation of the ethoxy group in 4-ethoxy-4'-cyanobiphenyl. <i>The Journal of Physical Chemistry</i> , 1992, 96, 7929-7934.	2.9	5
49	The determination of the conformation of the aromatic rings in a lateral fluoro-substituted liquid crystal by ^{13}C NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4921-4930.	2.8	4
50	Phase transitions in a high magnetic field of an odd, symmetric liquid crystal dimer having two nematic phases, $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{TB} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$, studied by NMR spectroscopy. <i>Physical Review E</i> , 2020, 102, 042706.	2.1	4
51	Deuterium NMR Spectroscopy of Solvents Adsorbed onto the Surface of Mesoporous Silica. <i>Materials Research Society Symposia Proceedings</i> , 1996, 425, 185.	0.1	3
52	NMR methods of studying orientational order in the liquid crystalline and isotropic phases of mesogenic samples. <i>Liquid Crystals</i> , 2005, 32, 1515-1524.	2.2	3
53	Conformational properties of alkyloxy end chains in NOCB liquid crystals. <i>Liquid Crystals</i> , 2019, 46, 857-871.	2.2	3
54	Tertiary Phosphine and Arsenic Complexes of Phosphorus Pentafluoride: Synthesis, Properties, and Electronic Structures. <i>Inorganic Chemistry</i> , 2020, 59, 4517-4526.	4.0	3

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55	The conformations adopted by $\hat{\pm}, \hat{\pm}$ -bis(phenoxy)ethane in isotropic and nematic solutions. <i>Liquid Crystals</i> , 1994, 16, 671-674.	2.2	2
56	Obtaining the structure and bond rotational potential of a substituted ethane by NMR spectroscopy of solutions in nematic liquid-crystalline solvents. <i>Journal of Chemical Physics</i> , 2005, 123, 194907.	3.0	2
57	The determination of average, anisotropic, solute-solvent interaction strengths for biphenyl, 4-bromobiphenyl, 4-cyanobiphenyl and 4-methoxybiphenyl dissolved in the nematic solvent 4-cyano-4-methoxybiphenyl. <i>Liquid Crystals</i> , 1992, 12, 83-94.	2.2	1
58	Effect of deuterium-decoupling on the NMR spectrum of poly(propene-2-d1 sulfide). <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1973, 11, 245-246.	0.4	0
59	Do the molecules which form discotic liquid crystals have disc-like structures? The conformation of a simple model compound, 1,2-dihydroxydiacetylbenzene, determined from the NMR spectra of samples dissolved in liquid crystalline solvents. <i>Liquid Crystals</i> , 2008, 35, 205-211.	2.2	0