James Emsley

List of Publications by Year in descending order

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59 papers	1,307 citations	279798 23 h-index	377865 34 g-index
62 all docs	62 docs citations	62 times ranked	608 citing authors

#	Article	IF	Citations
1	Phase transitions in a high magnetic field of an odd, symmetric liquid crystal dimer having two nematic phases, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>N</mml:mi><mml:mi mathvariant="normal">U</mml:mi></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>N</mml:mi><mml:mi>TB</mml:mi></mml:msub></mml:math>, studied by NMR spectroscopy. Physical Review E, 2020, 102, 042706.	2.1	4
2	Tertiary Phosphine and Arsine Complexes of Phosphorus Pentafluoride: Synthesis, Properties, and Electronic Structures. Inorganic Chemistry, 2020, 59, 4517-4526.	4.0	3
3	Conformational properties of alkyloxy end chains in NOCB liquid crystals. Liquid Crystals, 2019, 46, 857-871.	2.2	3
4	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> 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. Physical Review E, 2017, 96, 062702.	2.1	20
5	Systematics of BX₃ and BX₂⁺ Complexes (X = F, Cl, Br, I) with Neutral Diphosphine and Diarsine Ligands. Inorganic Chemistry, 2016, 55, 8852-8864.	4.0	23
6	Similarities and differences between molecular order in the nematic and twist-bend nematic phases of a symmetric liquid crystal dimer. Physical Chemistry Chemical Physics, 2016, 18, 9419-9430.	2.8	30
7	Benzene at 1GHz. Magnetic field-induced fine structure. Journal of Magnetic Resonance, 2015, 258, 17-24.	2.1	8
8	Chiral solutes can seed the formation of enantiomorphic domains in a twist-bend nematic liquid crystal. Physical Review E, 2013, 87, 040501.	2.1	38
9	A Comparison of the Conformational Distributions of the Achiral Symmetric Liquid Crystal Dimer CB7CB in the Achiral Nematic and Chiral Twist-Bend Nematic Phases. Journal of Physical Chemistry B, 2013, 117, 6547-6557.	2.6	78
10	The structures and conformations of mesogenic molecules in the pre-transitional region of the isotropic phase: 5OCB and MBBA and their mixtures. Liquid Crystals, 2012, 39, 211-219.	2.2	7
11	The Chirality of a Twistâ€“Bend Nematic Phase Identified by NMR Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 7940-7951.	2.6	129
12	A general strategy for obtaining 19Fâ€“19F and 13Câ€“19F residual dipolar couplings in perfluorocarbons from the NMR spectroscopy of liquid crystalline samples. Physical Chemistry Chemical Physics, 2010, 12, 7968.	2.8	7
13	The conformation and orientational order of a 1,2-disubstituted ethane nematogenic molecule (I22) in liquid crystalline and isotropic phases studied by NMR spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 2895.	2.8	12
14	A comparison of protonâ€detected13C local field experiments with deuterium NMR at natural abundance for studying liquid crystals. Liquid Crystals, 2008, 35, 443-464.	2.2	33
15	Do the molecules which form discotic liquid crystals have discâ€like structures? The conformation of a simple model compound, 1,2â€dihydroxydiacetylbenzene, determined from the NMR spectra of samples dissolved in liquid crystalline solvents. Liquid Crystals, 2008, 35, 205-211.	2.2	0
16	The indirect through-space Fâ€“F coupling in peri-difluoronaphthalene: is it anisotropic?. Physical Chemistry Chemical Physics, 2008, 10, 6534.	2.8	13
17	The structure and conformation of a mesogenic compound between almost zero and almost complete orientational order. Liquid Crystals, 2007, 34, 1071-1093.	2.2	31
18	Tetraethyl stannane: structure, conformations, and orientational order when dissolved in a nematic liquid crystalline solvent. Physical Chemistry Chemical Physics, 2006, 8, 3726.	2.8	8

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19	An investigation of the structure and bond rotational potential of some fluorinated ethanes by NMR spectroscopy of solutions in nematic liquid crystalline solvents. Journal of Magnetic Resonance, 2006, 180, 245-255.	2.1	11
20	The Structure and Conformations of 2-Thiophenecarboxaldehyde Obtained from Partially Averaged Dipolar Couplings. ChemPhysChem, 2005, 6, 1483-1491.	2.1	26
21	NMR methods of studying orientational order in the liquid crystalline and isotropic phases of mesogenic samples. Liquid Crystals, 2005, 32, 1515-1524.	2.2	3
22	Magnetic Field Induced Dipolar Couplings in the Pretransitional Region of a Nematic Liquid Crystal. Journal of Physical Chemistry A, 2005, 109, 5070-5078.	2.5	9
23	Obtaining the structure and bond rotational potential of a substituted ethane by NMR spectroscopy of solutions in nematic liquid-crystalline solvents. Journal of Chemical Physics, 2005, 123, 194907.	3.0	2
24	Is styrene planar in liquid phases?. Journal of Chemical Physics, 2004, 120, 7075-7084.	3.0	23
25	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. Physical Chemistry Chemical Physics, 2004, 6, 522.	2.8	43
26	The effect of a chiral nematic solvent on the orientational order and conformational distribution of a flexible prochiral solute. Physical Chemistry Chemical Physics, 2004, 6, 5331.	2.8	23
27	The conformational distribution in diphenylmethane determined by nuclear magnetic resonance spectroscopy of a sample dissolved in a nematic liquid crystalline solvent. Journal of Chemical Physics, 2003, 118, 6417-6426.	3.0	40
28	The determination of the conformation of the aromatic rings in a lateral fluoro-substituted liquid crystal by 13C NMR spectroscopy. Physical Chemistry Chemical Physics, 2002, 4, 4921-4930.	2.8	4
29	Selective Detection of the Proton NMR Spectra of Molecules Containing Rare Spins at Natural Abundance in Liquid Crystalline Samples. Journal of Magnetic Resonance, 2002, 154, 303-310.	2.1	11
30	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. Physical Chemistry Chemical Physics, 2001, 3, 4918-4925.	2.8	24
31	Magnetic field induced alignment of the directors of a smectic-Aliquid crystal. Physical Review E, 1999, 60, 1831-1839.	2.1	26
32	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. Journal of the Chemical Society Perkin Transactions II, 1998, , 1211-1218.	0.9	8
33	Calculation of the Molecular Ordering Parameters of (Â±)-3-Butyn-2-ol Dissolved in an Organic Solution of Poly(Î³-benzyl-l-glutamate). Journal of Physical Chemistry A, 1997, 101, 5719-5724.	2.5	77
34	The conformation of the aromatic rings relative to the alkyl chain in 4-n-pentyl-4â€²-cyanobiphenyl. Liquid Crystals, 1996, 20, 569-575.	2.2	33
35	Deuterium NMR Spectroscopy of Solvents Adsorbed onto the Surface of Mesoporous Silica. Materials Research Society Symposia Proceedings, 1996, 425, 185.	0.1	3
36	The True Liquid Crystal Approach to Mesoporous Silica. Materials Research Society Symposia Proceedings, 1996, 425, 179.	0.1	13

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37	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. Journal of Chemical Physics, 1996, 105, 7026-7033.	3.0	18
38	The conformation of phenyl benzoate when dissolved in a nematic liquid crystalline solvent. Liquid Crystals, 1996, 21, 877-883.	2.2	22
39	The shape dependence of the soluteâ€“solvent interactions in a liquid crystalline phase: A computer simulation study. Journal of Chemical Physics, 1996, 104, 233-241.	3.0	16
40	Discrimination and analysis of the NMR spectra of enantiomers dissolved in chiral liquid crystal solvents through 2D correlation experiments. Liquid Crystals, 1996, 21, 427-435.	2.2	30
41	An NMR study of the conformational flexibility of phenyl acetate dissolved in a nematic liquid crystalline solvent. Liquid Crystals, 1995, 18, 615-621.	2.2	12
42	The conformations adopted by Î±,Î´-bis(phenoxy)ethane in isotropic and nematic solutions. Liquid Crystals, 1994, 16, 671-674.	2.2	2
43	A comparison of the structure, flexibility and mesogenic properties of 4-methoxy-4â€²-cyanobiphenyl and the Î±,Î±,Î±-trifluorinated derivative. Liquid Crystals, 1994, 16, 1037-1049.	2.2	23
44	Assignment of the quadrupolar splittings in fully deuteriated alkyl chains of liquid crystalline compounds The case of 4-n-hexyloxy-4â€²-cyanobiphenyl. Liquid Crystals, 1994, 17, 303-309.	2.2	12
45	Computer simulation of the behaviour of a solute in a model liquid crystalline solvent. Molecular Physics, 1994, 82, 177-192.	1.7	26
46	The conformations adopted by alkyl chains in Î±,Ï‰-bis(aryl)alkanes in liquid-crystalline phases. Liquid Crystals, 1993, 13, 265-282.	2.2	8
47	Internal rotation potential function for anisole in solution: a liquid crystal NMR study. The Journal of Physical Chemistry, 1992, 96, 2466-2470.	2.9	26
48	Conformation of the ethoxy group in 4-ethoxy-4'-cyanobiphenyl. The Journal of Physical Chemistry, 1992, 96, 7929-7934.	2.9	5
49	The determination of average, anisotropic, solute-solvent interaction strengths for biphenyl, 4-bromobiphenyl, 4-cyanobiphenyl and 4-methoxybiphenyl dissolved in the nematic solvent 4â€²-cyano-4-methoxybiphenyl. Liquid Crystals, 1992, 12, 83-94.	2.2	1
50	Computer simulation studies of the dependence on density of the orientational order in nematic liquid crystals. Liquid Crystals, 1992, 11, 519-530.	2.2	35
51	Angle of twist between the two rings of 4-cyanobiphenyl when dissolved in liquid-crystalline solvents. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1679.	1.7	23
52	Structure of biphenyl in a nematic liquid-crystalline solvent. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2623.	1.7	49
53	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. Liquid Crystals, 1991, 9, 649-660.	2.2	25
54	The inclusion of electrostatic and dispersion interactions into potentials of mean torque for solutes dissolved in uniaxial liquid crystal solvents. Liquid Crystals, 1991, 9, 643-648.	2.2	36

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55	The structure and orientational ordering of 4-methoxy-4â€²-cyanobiphenyl in the nematic mesophase. Liquid Crystals, 1990, 7, 1-13.	2.2	31
56	The angle of twist between the two phenyl rings in the nematic liquid crystal 4-n-pentyl-4â€²-cyanobiphenyl. Liquid Crystals, 1990, 7, 731-737.	2.2	35
57	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. Liquid Crystals, 1989, 6, 689-700.	2.2	19
58	The potential of mean torque for flexible mesogenic molecules. Determination of the interaction parameters from carbonâ€“hydrogen dipolar couplings for 4â€²-nâ€alkylâ€4â€²â€cyanobiphenyls. Journal of Chemical Physics, 1987, 87, 3099-3103.	3.0	26
59	Effect of deuterium-decoupling on the NMR spectrum of poly(propene-2-d1 sulfide). Journal of Polymer Science, Polymer Letters Edition, 1973, 11, 245-246.	0.4	0