John M Seddon

List of Publications by Year
in descending order

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106 papers	5,327 citations	101535 36 h-index	85537 71 g-index
112 all docs	112 docs citations	112 times ranked	4380 citing authors

#	Article	IF	Citations
1	Machine learning platform for determining experimental lipid phase behaviour from small angle X-ray scattering patterns by pre-training on synthetic data. , 2022, 1, 98-107.		3
2	The effect of headgroup methylation on polymorphic phase behaviour in hydrated N-methylated phosphoethanolamine:palmitic acid membranes. Soft Matter, 2021, 17, 5763-5771.	2.7	4
3	Breaking Isolation to Form New Networks: pH-Triggered Changes in Connectivity inside Lipid Nanoparticles. Journal of the American Chemical Society, 2021, 143, 16556-16565.	13.7	11
4	Microfluidic technologies for the synthesis and manipulation of biomimetic membranous nano-assemblies. Physical Chemistry Chemical Physics, 2021, 23, 3693-3706.	2.8	21
5	Flip-flop asymmetry of cholesterol in model membranes induced by thermal gradients. Soft Matter, 2020, 16, 5925-5932.	2.7	4
6	Luminescent silicon nanostructures and COVID-19. Faraday Discussions, 2020, 222, 8-9.	3.2	3
7	Fatsâ€™ Loveâ€“Hate Relationships: A Molecular Dynamics Simulation and Hands-On Experiment Outreach Activity to Introduce the Amphiphilic Nature and Biological Functions of Lipids to Young Students and the General Public. Journal of Chemical Education, 2020, 97, 1360-1367.	2.3	3
8	Coupling Phase Behavior of Fatty Acid Containing Membranes to Membrane Bio-Mechanics. Frontiers in Cell and Developmental Biology, 2019, 7, 187.	3.7	29
9	Amphiphilic Lipids: Natureâ€Inspired Design and Application of Lipidic Lyotropic Liquid Crystals (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	21.0	2
10	Mechanisms of lipid extraction from skin lipid bilayers by sebum triglycerides. Physical Chemistry Chemical Physics, 2019, 21, 1471-1477.	2.8	12
11	Natureâ€Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. Advanced Materials, 2019, 31, e1900818.	21.0	117
12	The 300th Faraday Discussion. Faraday Discussions, 2019, 214, 9-12.	3.2	3
13	Engineering Swollen Cubosomes Using Cholesterol and Anionic Lipids. Langmuir, 2019, 35, 16521-16527.	3.5	13
14	Effect of glycerol with sodium chloride on the Krafft point of sodium dodecyl sulfate using surface tension. Journal of Colloid and Interface Science, 2019, 538, 75-82.	9.4	34
15	Measurement of Forces between Supported Cationic Bilayers by Colloid Probe Atomic Force Microscopy: Electrolyte Concentration and Composition. Langmuir, 2019, 35, 729-738.	3.5	5
16	Understanding the interactions between sebum triglycerides and water: a molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2018, 20, 1848-1860.	2.8	28
17	Influence of a pH-sensitive polymer on the structure of monoolein cubosomes. Soft Matter, 2017, 13, 7571-7577.	2.7	22
18	Spontaneous charged lipid transfer between lipid vesicles. Scientific Reports, 2017, 7, 12606.	3.3	17

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19	A transparent 3D printed device for assembling droplet hydrogel bilayers (DHBs). RSC Advances, 2017, 7, 47796-47800.	3.6	4
20	Engineering Compartmentalized Biomimetic Micro- and Nanocontainers. ACS Nano, 2017, 11, 6549-6565.	14.6	166
21	Disentangling the roles of cholesterol and CD59 in intermedilysin pore formation. Scientific Reports, 2016, 6, 38446.	3.3	20
22	Optically assembled droplet interface bilayer (OptiDIB) networks from cell-sized microdroplets. Soft Matter, 2016, 12, 7731-7734.	2.7	32
23	DROPLAY: laser writing of functional patterns within biological microdroplet displays. Lab on A Chip, 2016, 16, 4621-4627.	6.0	9
24	Structural organization of sterol molecules in DPPC bilayers: a coarse-grained molecular dynamics investigation. Soft Matter, 2016, 12, 2108-2117.	2.7	7
25	Microfluidic processing of concentrated surfactant mixtures: online SAXS, microscopy and rheology. Soft Matter, 2016, 12, 1750-1758.	2.7	27
26	Selective flow-induced vesicle rupture to sort by membrane mechanical properties. Scientific Reports, 2015, 5, 13163.	3.3	19
27	A Targeting Microbubble for Ultrasound Molecular Imaging. PLoS ONE, 2015, 10, e0129681.	2.5	38
28	Quantitative Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2015, 41, 2478-2496.	1.5	12
29	Temperature and pressure tuneable swollen bicontinuous cubic phases approaching nature's length scales. Soft Matter, 2015, 11, 600-607.	2.7	69
30	Measurements of the effect of membrane asymmetry on the mechanical properties of lipid bilayers. Chemical Communications, 2015, 51, 6976-6979.	4.1	93
31	Separation of liquid domains in model membranes induced with high hydrostatic pressure. Chemical Communications, 2015, 51, 8675-8678.	4.1	26
32	Structural studies of the lamellar to bicontinuous gyroid cubic (QGII) phase transitions under limited hydration conditions. Soft Matter, 2015, 11, 1991-1997.	2.7	10
33	Electrostatic swelling of bicontinuous cubic lipid phases. Soft Matter, 2015, 11, 3279-3286.	2.7	95
34	Pressureâ€“Temperature Phase Behavior of Mixtures of Natural Sphingomyelin and Ceramide Extracts. Langmuir, 2015, 31, 3678-3686.	3.5	10
35	Surface Charge Measurement of SonoVue, Definity and Optison: A Comparison of Laser Doppler Electrophoresis and Micro-Electrophoresis. Ultrasound in Medicine and Biology, 2015, 41, 2990-3000.	1.5	24
36	A coarse-grained molecular dynamics investigation of the phase behavior of DPPC/cholesterol mixtures. Chemistry and Physics of Lipids, 2015, 185, 88-98.	3.2	29

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37	X-Ray Diffraction of Lipid Model Membranes. Methods in Molecular Biology, 2015, 1232, 199-225.	0.9	28
38	Solid State NMR of Lipid Model Membranes. Methods in Molecular Biology, 2015, 1232, 227-253.	0.9	8
39	Lyotropic Phase Behaviour and Structural Parameters of Monosaccharide and Disaccharide Guerbet Branched-Chain Î²-D-Glycosides. Advanced Materials Research, 2014, 895, 111-115.	0.3	2
40	High Pressure X-ray Studies of Lipid Membranes and Lipid Phase Transitions. Zeitschrift Fur Physikalische Chemie, 2014, 228, 987-1004.	2.8	3
41	The effects of pressure and temperature on the energetics and pivotal surface in a monoacylglycerol/water gyroid inverse bicontinuous cubic phase. Soft Matter, 2014, 10, 3009-3015.	2.7	9
42	Solid-Like Domains in Mixed Lipid Bilayers. Behavior Research Methods, 2014, , 137-154.	4.0	1
43	Dynamics of Targeted Microbubble Adhesion Under Pulsatile Compared with Steady Flow. Ultrasound in Medicine and Biology, 2014, 40, 2445-2457.	1.5	1
44	Novel Insights into the Mechanistic Routes of Lyotropic Phase Transitions. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1187-C1187.	0.1	0
45	Protocell design through modular compartmentalization. Journal of the Royal Society Interface, 2013, 10, 20130496.	3.4	16
46	Investigation of the Effect of Sugar Stereochemistry on Biologically Relevant Lyotropic Phases from Branched-Chain Synthetic Glycolipids by Small-Angle X-ray Scattering. Langmuir, 2013, 29, 15794-15804.	3.5	29
47	Preface. Faraday Discussions, 2013, 161, 9-10.	3.2	0
48	Pressure effects on a proteinâ€“lipid model membrane. Soft Matter, 2013, 9, 6525.	2.7	10
49	New insights into the transitional behaviour of methyl-6-O-(n-dodecanoyl)-Î±-D-glucopyranoside using variable temperature FTIR spectroscopy and X-ray diffraction. Liquid Crystals, 2013, 40, 1817-1827.	2.2	26
50	Non-symmetric liquid crystal dimer containing a carbohydrate-based moiety. Carbohydrate Research, 2012, 360, 78-83.	2.3	39
51	Pressureâ€“temperature phase behaviour of natural sphingomyelin extracts. Soft Matter, 2012, 8, 1070-1078.	2.7	31
52	Hydrostatic Pressure Effects on the Lamellar to Gyroid Cubic Phase Transition of Monolinolein at Limited Hydration. Langmuir, 2012, 28, 13018-13024.	3.5	34
53	A lyotropic inverse ribbon phase in a branched-chain polyoxyethylene surfactant: pressure effects. Soft Matter, 2011, 7, 4386.	2.7	11
54	Hydrostatic pressure effects on a hydrated lipid inverse micellar Fd3m cubic phase. Physical Chemistry Chemical Physics, 2011, 13, 3033-3038.	2.8	16

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55	Pressure effects on lipid membrane structure and dynamics. Chemistry and Physics of Lipids, 2011, 164, 89-98.	3.2	60
56	Thermotropic and lyotropic liquid crystalline phases of Guerbet branched-chain -D-glucosides. Liquid Crystals, 2011, 38, 1725-1734.	2.2	40
57	Ordered Nanostructured Amphiphile Self-Assembly Materials from Endogenous Nonionic Unsaturated Monoethanolamide Lipids in Water. Langmuir, 2010, 26, 3084-3094.	3.5	36
58	Complex fluids under microflow probed by SAXS: rapid microfabrication and analysis. Journal of Physics: Conference Series, 2010, 247, 012050.	0.4	12
59	Automated high pressure cell for pressure jump x-ray diffraction. Review of Scientific Instruments, 2010, 81, 064103.	1.3	73
60	Ordered micellar and inverse micellar lyotropic phases. Liquid Crystals, 2010, 37, 679-694.	2.2	51
61	High Pressure Static and Time-Resolved X-Ray Studies of Inverse Phases in Cholesterol / Lipid Mixtures. Biophysical Journal, 2010, 98, 231a.	0.5	0
62	Molecular Dynamics Simulations of Liquid Condensed to Liquid Expanded Transitions in DPPC Monolayers. Journal of Physical Chemistry B, 2010, 114, 1325-1335.	2.6	40
63	Engineering bicontinuous cubic structures at the nanoscaleâ€”the role of chain splay. Soft Matter, 2010, 6, 3191.	2.7	96
64	Quantitative model for the kinetics of lyotropic phase transitions involving changes in monolayer curvature. Soft Matter, 2009, 5, 4773.	2.7	14
65	A 3-D Hexagonal Inverse Micellar Lyotropic Phase. Journal of the American Chemical Society, 2009, 131, 1678-1679.	13.7	64
66	Synthesis and phase behaviour of Î²-octaalkyl porphyrins. Journal of Materials Chemistry, 2009, 19, 598-604.	6.7	31
67	Cholesterol containing model membranes studied by multinuclear solid state NMR spectroscopy. Soft Matter, 2009, 5, 369-378.	2.7	21
68	A systematic study of the formation of mesostructured silica using surfactant ruthenium complexes in high- and low-concentration regimes. Journal of Materials Chemistry, 2008, 18, 5282.	6.7	36
69	DNA Double Helices Recognize Mutual Sequence Homology in a Protein Free Environment. Journal of Physical Chemistry B, 2008, 112, 1060-1064.	2.6	73
70	The synthesis and liquid crystalline behaviour of alkoxyâ€substituted derivatives of 1,4â€bis(phenylethynyl)benzene. Liquid Crystals, 2008, 35, 119-132.	2.2	9
71	Formation of the liquid-ordered phase in fully hydrated mixtures of cholesterol and lysopalmitoylphosphatidylcholine. Soft Matter, 2008, 4, 263-267.	2.7	12
72	A Pressure-Jump Time-Resolved X-ray Diffraction Study of Cubicâ^'Cubic Transition Kinetics in Monoolein. Langmuir, 2008, 24, 2331-2340.	3.5	57

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73	Structure of DNA cholesteric spherulitic droplet dispersions. Journal of Physics Condensed Matter, 2008, 20, 035102.	1.8	19
74	Calculations of and Evidence for Chain Packing Stress in Inverse Lyotropic Bicontinuous Cubic Phases. Langmuir, 2007, 23, 7276-7285.	3.5	63
75	The Diversity of the Liquid Ordered (Lo) Phase of Phosphatidylcholine/Cholesterol Membranes: A Variable Temperature Multinuclear Solid-State NMR and X-Ray Diffraction Study. Biophysical Journal, 2006, 90, 2383-2393.	0.5	76
76	Pressure-jump X-ray studies of liquid crystal transitions in lipids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2635-2655.	3.4	155
77	Dynamics of Structural Transformations between Lamellar and Inverse Bicontinuous Cubic Lyotropic Phases. Physical Review Letters, 2006, 96, 108102.	7.8	99
78	Methyleneâ€•and etherâ€linked liquid crystal dimers II. Effects of mesogenic linking unit and terminal chain length. Liquid Crystals, 2005, 32, 1499-1513.	2.2	80
79	Non-symmetric liquid crystal trimers. The first example of a triply-intercalated alternating smectic C phaseElectronic supplementary information (ESI) available: characterization and thermal analysis of the trimers and their intermediates. See http://www.rsc.org/suppdata/jm/b4/b404319g/. Journal of Materials Chemistry, 2004, 14, 2486.	6.7	67
80	STRUCTURE AND PHASE BEHAVIOUR OF SYNTHETIC GLYCOLIPIDS. Molecular Crystals and Liquid Crystals, 2003, 402, 77-84.	0.9	9
81	Highly non-linear liquid crystal tetramers. Journal of Materials Chemistry, 2001, 11, 2722-2731.	6.7	35
82	Title is missing!. Catalysis Letters, 2001, 76, 21-26.	2.6	12
83	Liquid Crystal Templating of Mesoporous Materials. Molecular Crystals and Liquid Crystals, 2000, 347, 221-229.	0.3	13
84	A Spectroscopic Study of Group IV Transition Metal Incorporated Direct Templated Mesoporous Catalysts Part 1:Â A Comparison between Materials Synthesized Using Hydrophobic and Hydrophilic Ti Precursors. Journal of Physical Chemistry B, 2000, 104, 7102-7109.	2.6	39
85	A Ferrocene-Containing Carbohydrate Surfactant:â€‰ Thermotropic and Lyotropic Phase Behavior. Organometallics, 2000, 19, 3077-3081.	2.3	32
86	Macroscopic Helical and Cylindrical Morphologies from Achiral 1,3-Diynes. Chemistry of Materials, 2000, 12, 1572-1576.	6.7	31
87	Templating mesoporous silicates on surfactant ruthenium complexes: a direct approach to heterogeneous catalysts. Chemical Communications, 1999, , 2031-2032.	4.1	67
88	One-pot incorporation of titanium catalytic sites into mesoporous true liquid crystal templated (TLCT) silica. Chemical Communications, 1999, , 87-88.	4.1	22
89	Inverse Micellar Lyotropic Cubic Phases. , 1999, , 423-436.		0
90	Synthesis of direct templated aligned mesoporous silica coatings within capillaries. Chemical Communications, 1997, , 1843.	4.1	20

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91	Phosphatidylcholineâ€“fatty acid membranes: effects of headgroup hydration on the phase behaviour and structural parameters of the gel and inverse hexagonal (HII) phases. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1327, 131-147.	2.6	76
92	An Fd3m Lyotropic Cubic Phase in a Binary Glycolipid/Water System. Langmuir, 1996, 12, 5250-5253.	3.5	100
93	Freeze Fracture Electron Microscopy of Lyotropic Lipid Systems: Quantitative Analysis of the Inverse Micellar Cubic Phase of Space GroupFd3m (Q227). Journal of Molecular Biology, 1996, 258, 88-103.	4.2	61
94	An inverse micellar Fd3m cubic phase formed by hydrated phosphatidylcholine/fatty alcohol mixtures. Chemistry and Physics of Lipids, 1996, 82, 53-61.	3.2	31
95	Corrections to Some Models of the Curvature Elastic Energy of Inverse Bicontinuous Cubic Phases. Journal De Physique II, 1995, 5, 1053-1065.	0.9	28
96	Lipid polymorphism: a correction. The structure of the cubic phase of extinction symbol Fd--consists of two types of disjointed reverse micelles embedded in a three-dimensional hydrocarbon matrix. Biochemistry, 1992, 31, 279-285.	2.5	185
97	Mechanism of charge storage and luminescence stimulation in BaFBr: RE phosphors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 220-223.	1.6	5
98	An inverse face-centered cubic phase formed by diacylglycerol-phosphatidylcholine mixtures. Biochemistry, 1990, 29, 7997-8002.	2.5	121
99	Structure of the inverted hexagonal (HII) phase, and non-lamellar phase transitions of lipids. BBA - Biomembranes, 1990, 1031, 1-69.	8.0	1,011
100	The mechanism of regulation of membrane phase behaviour, structure and interactions by lipid headgroups and electrolyte solution. Faraday Discussions of the Chemical Society, 1986, 81, 179.	2.2	22
101	Thermodynamic and structural properties of phosphatidylserine bilayer membranes in the presence of lithium ions and protons. Biochimica Et Biophysica Acta - Biomembranes, 1985, 814, 141-150.	2.6	42
102	X-ray diffraction study of the polymorphism of hydrated diacyl and dialkylphosphatidylethanolamines. Biochemistry, 1984, 23, 2634-2644.	2.5	277
103	Calorimetric studies of the gel-fluid (L.beta.-L.alpha.) and lamellar-inverted hexagonal (L.alpha.-HII) phase transitions in dialkyl- and diacylphosphatidylethanolamines. Biochemistry, 1983, 22, 1280-1289.	2.5	313
104	Induction of the lamellar-inverted hexagonal phase transition in cardiolipin by protons and monovalent cations. Biochimica Et Biophysica Acta - Biomembranes, 1983, 734, 347-352.	2.6	91
105	Gel-to-inverted hexagonal (LÎ²-HII) phase transitions in phosphatidylethanolamines and fatty acid-phosphatidylcholine mixtures, demonstrated by 31P-NMR spectroscopy and X-ray diffraction. Biochimica Et Biophysica Acta - Biomembranes, 1982, 690, 117-123.	2.6	112
106	Toward the microfluidic generation of higher-order biomimetic nano-assemblies. , 0, , .		0