

John M Seddon

List of Publications by Year in descending order

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106
papers

5,327
citations

116194

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112
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112
docs citations

112
times ranked

4928
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 <i>N</i> -methylated phosphoethanolamine:palmitic acid membranes. <i>Soft Matter</i> , 2021, 17, 5763-5771.	1.2	4
3	Breaking Isolation to Form New Networks: pH-Triggered Changes in Connectivity inside Lipid Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021, 143, 16556-16565.	6.6	11
4	Microfluidic technologies for the synthesis and manipulation of biomimetic membranous nano-assemblies. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3693-3706.	1.3	21
5	Flip-flop asymmetry of cholesterol in model membranes induced by thermal gradients. <i>Soft Matter</i> , 2020, 16, 5925-5932.	1.2	4
6	Luminescent silicon nanostructures and COVID-19. <i>Faraday Discussions</i> , 2020, 222, 8-9.	1.6	3
7	Fats™ Love“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. <i>Journal of Chemical Education</i> , 2020, 97, 1360-1367.	1.1	3
8	Coupling Phase Behavior of Fatty Acid Containing Membranes to Membrane Bio-Mechanics. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 187.	1.8	29
9	Amphiphilic Lipids: Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals (Adv.) <i>Tj ETQq1 1 0,784314 rgBT /Ove</i>	11.1	117
10	Mechanisms of lipid extraction from skin lipid bilayers by sebum triglycerides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1471-1477.	1.3	12
11	Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. <i>Advanced Materials</i> , 2019, 31, e1900818.	11.1	117
12	The 300 th Faraday Discussion. <i>Faraday Discussions</i> , 2019, 214, 9-12.	1.6	3
13	Engineering Swollen Cubosomes Using Cholesterol and Anionic Lipids. <i>Langmuir</i> , 2019, 35, 16521-16527.	1.6	13
14	Effect of glycerol with sodium chloride on the Krafft point of sodium dodecyl sulfate using surface tension. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 75-82.	5.0	34
15	Measurement of Forces between Supported Cationic Bilayers by Colloid Probe Atomic Force Microscopy: Electrolyte Concentration and Composition. <i>Langmuir</i> , 2019, 35, 729-738.	1.6	5
16	Understanding the interactions between sebum triglycerides and water: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1848-1860.	1.3	28
17	Influence of a pH-sensitive polymer on the structure of monoolein cubosomes. <i>Soft Matter</i> , 2017, 13, 7571-7577.	1.2	22
18	Spontaneous charged lipid transfer between lipid vesicles. <i>Scientific Reports</i> , 2017, 7, 12606.	1.6	17

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19	A transparent 3D printed device for assembling droplet hydrogel bilayers (DHBs). RSC Advances, 2017, 7, 47796-47800.	1.7	4
20	Engineering Compartmentalized Biomimetic Micro- and Nanocontainers. ACS Nano, 2017, 11, 6549-6565.	7.3	166
21	Disentangling the roles of cholesterol and CD59 in intermedilysin pore formation. Scientific Reports, 2016, 6, 38446.	1.6	20
22	Optically assembled droplet interface bilayer (OptiDIB) networks from cell-sized microdroplets. Soft Matter, 2016, 12, 7731-7734.	1.2	32
23	DROPLAY: laser writing of functional patterns within biological microdroplet displays. Lab on A Chip, 2016, 16, 4621-4627.	3.1	9
24	Structural organization of sterol molecules in DPPC bilayers: a coarse-grained molecular dynamics investigation. Soft Matter, 2016, 12, 2108-2117.	1.2	7
25	Microfluidic processing of concentrated surfactant mixtures: online SAXS, microscopy and rheology. Soft Matter, 2016, 12, 1750-1758.	1.2	27
26	Selective flow-induced vesicle rupture to sort by membrane mechanical properties. Scientific Reports, 2015, 5, 13163.	1.6	19
27	A Targeting Microbubble for Ultrasound Molecular Imaging. PLoS ONE, 2015, 10, e0129681.	1.1	38
28	Quantitative Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2015, 41, 2478-2496.	0.7	12
29	Temperature and pressure tuneable swollen bicontinuous cubic phases approaching nature's length scales. Soft Matter, 2015, 11, 600-607.	1.2	69
30	Measurements of the effect of membrane asymmetry on the mechanical properties of lipid bilayers. Chemical Communications, 2015, 51, 6976-6979.	2.2	93
31	Separation of liquid domains in model membranes induced with high hydrostatic pressure. Chemical Communications, 2015, 51, 8675-8678.	2.2	26
32	Structural studies of the lamellar to bicontinuous gyroid cubic (QGII) phase transitions under limited hydration conditions. Soft Matter, 2015, 11, 1991-1997.	1.2	10
33	Electrostatic swelling of bicontinuous cubic lipid phases. Soft Matter, 2015, 11, 3279-3286.	1.2	95
34	Pressure-Temperature Phase Behavior of Mixtures of Natural Sphingomyelin and Ceramide Extracts. Langmuir, 2015, 31, 3678-3686.	1.6	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.	0.7	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.	1.5	29

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37	X-Ray Diffraction of Lipid Model Membranes. <i>Methods in Molecular Biology</i> , 2015, 1232, 199-225.	0.4	28
38	Solid State NMR of Lipid Model Membranes. <i>Methods in Molecular Biology</i> , 2015, 1232, 227-253.	0.4	8
39	Lyotropic Phase Behaviour and Structural Parameters of Monosaccharide and Disaccharide Guerbet Branched-Chain α -D-Glycosides. <i>Advanced Materials Research</i> , 2014, 895, 111-115.	0.3	2
40	High Pressure X-ray Studies of Lipid Membranes and Lipid Phase Transitions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 987-1004.	1.4	3
41	The effects of pressure and temperature on the energetics and pivotal surface in a monoacylglycerol/water gyroid inverse bicontinuous cubic phase. <i>Soft Matter</i> , 2014, 10, 3009-3015.	1.2	9
42	Solid-Like Domains in Mixed Lipid Bilayers. <i>Behavior Research Methods</i> , 2014, , 137-154.	2.3	1
43	Dynamics of Targeted Microbubble Adhesion Under Pulsatile Compared with Steady Flow. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2445-2457.	0.7	1
44	Novel Insights into the Mechanistic Routes of Lyotropic Phase Transitions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1187-C1187.	0.0	0
45	Protocell design through modular compartmentalization. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130496.	1.5	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. <i>Langmuir</i> , 2013, 29, 15794-15804.	1.6	29
47	Preface. <i>Faraday Discussions</i> , 2013, 161, 9-10.	1.6	0
48	Pressure effects on a protein-lipid model membrane. <i>Soft Matter</i> , 2013, 9, 6525.	1.2	10
49	New insights into the transitional behaviour of methyl-6-O-(α -D-glucopyranoside)- β -D-glucopyranoside using variable temperature FTIR spectroscopy and X-ray diffraction. <i>Liquid Crystals</i> , 2013, 40, 1817-1827.	0.9	26
50	Non-symmetric liquid crystal dimer containing a carbohydrate-based moiety. <i>Carbohydrate Research</i> , 2012, 360, 78-83.	1.1	39
51	Pressure-temperature phase behaviour of natural sphingomyelin extracts. <i>Soft Matter</i> , 2012, 8, 1070-1078.	1.2	31
52	Hydrostatic Pressure Effects on the Lamellar to Gyroid Cubic Phase Transition of Monolinolein at Limited Hydration. <i>Langmuir</i> , 2012, 28, 13018-13024.	1.6	34
53	A lyotropic inverse ribbon phase in a branched-chain polyoxyethylene surfactant: pressure effects. <i>Soft Matter</i> , 2011, 7, 4386.	1.2	11
54	Hydrostatic pressure effects on a hydrated lipid inverse micellar Fd3m cubic phase. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3033-3038.	1.3	16

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55	Pressure effects on lipid membrane structure and dynamics. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 89-98.	1.5	60
56	Thermotropic and lyotropic liquid crystalline phases of Guerbet branched-chain -D-glucosides. <i>Liquid Crystals</i> , 2011, 38, 1725-1734.	0.9	40
57	Ordered Nanostructured Amphiphile Self-Assembly Materials from Endogenous Nonionic Unsaturated Monoethanolamide Lipids in Water. <i>Langmuir</i> , 2010, 26, 3084-3094.	1.6	36
58	Complex fluids under microflow probed by SAXS: rapid microfabrication and analysis. <i>Journal of Physics: Conference Series</i> , 2010, 247, 012050.	0.3	12
59	Automated high pressure cell for pressure jump x-ray diffraction. <i>Review of Scientific Instruments</i> , 2010, 81, 064103.	0.6	73
60	Ordered micellar and inverse micellar lyotropic phases. <i>Liquid Crystals</i> , 2010, 37, 679-694.	0.9	51
61	High Pressure Static and Time-Resolved X-Ray Studies of Inverse Phases in Cholesterol / Lipid Mixtures. <i>Biophysical Journal</i> , 2010, 98, 231a.	0.2	0
62	Molecular Dynamics Simulations of Liquid Condensed to Liquid Expanded Transitions in DPPC Monolayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1325-1335.	1.2	40
63	Engineering bicontinuous cubic structures at the nanoscale—the role of chain splay. <i>Soft Matter</i> , 2010, 6, 3191.	1.2	96
64	Quantitative model for the kinetics of lyotropic phase transitions involving changes in monolayer curvature. <i>Soft Matter</i> , 2009, 5, 4773.	1.2	14
65	A 3-D Hexagonal Inverse Micellar Lyotropic Phase. <i>Journal of the American Chemical Society</i> , 2009, 131, 1678-1679.	6.6	64
66	Synthesis and phase behaviour of β -octaalkyl porphyrins. <i>Journal of Materials Chemistry</i> , 2009, 19, 598-604.	6.7	31
67	Cholesterol containing model membranes studied by multinuclear solid state NMR spectroscopy. <i>Soft Matter</i> , 2009, 5, 369-378.	1.2	21
68	A systematic study of the formation of mesostructured silica using surfactant ruthenium complexes in high- and low-concentration regimes. <i>Journal of Materials Chemistry</i> , 2008, 18, 5282.	6.7	36
69	DNA Double Helices Recognize Mutual Sequence Homology in a Protein Free Environment. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1060-1064.	1.2	73
70	The synthesis and liquid crystalline behaviour of alkoxy-substituted derivatives of 1,4-bis(phenylethynyl)benzene. <i>Liquid Crystals</i> , 2008, 35, 119-132.	0.9	9
71	Formation of the liquid-ordered phase in fully hydrated mixtures of cholesterol and lysopalmitoylphosphatidylcholine. <i>Soft Matter</i> , 2008, 4, 263-267.	1.2	12
72	A Pressure-Jump Time-Resolved X-ray Diffraction Study of Cubic-Cubic Transition Kinetics in Monoolein. <i>Langmuir</i> , 2008, 24, 2331-2340.	1.6	57

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73	Structure of DNA cholesteric spherulitic droplet dispersions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 035102.	0.7	19
74	Calculations of and Evidence for Chain Packing Stress in Inverse Lyotropic Bicontinuous Cubic Phases. <i>Langmuir</i> , 2007, 23, 7276-7285.	1.6	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. <i>Biophysical Journal</i> , 2006, 90, 2383-2393.	0.2	76
76	Pressure-jump X-ray studies of liquid crystal transitions in lipids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2635-2655.	1.6	155
77	Dynamics of Structural Transformations between Lamellar and Inverse Bicontinuous Cubic Lyotropic Phases. <i>Physical Review Letters</i> , 2006, 96, 108102.	2.9	99
78	Methylene- and ether-linked liquid crystal dimers II. Effects of mesogenic linking unit and terminal chain length. <i>Liquid Crystals</i> , 2005, 32, 1499-1513.	0.9	80
79	Non-symmetric liquid crystal trimers. The first example of a triply-intercalated alternating smectic C phase Electronic supplementary information (ESI) available: characterization and thermal analysis of the trimers and their intermediates. See http://www.rsc.org/suppdata/jm/b4/b404319g/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 2486.	6.7	67
80	STRUCTURE AND PHASE BEHAVIOUR OF SYNTHETIC GLYCOLIPIDS. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 402, 77-84.	0.4	9
81	Highly non-linear liquid crystal tetramers. <i>Journal of Materials Chemistry</i> , 2001, 11, 2722-2731.	6.7	35
82	Title is missing!. <i>Catalysis Letters</i> , 2001, 76, 21-26.	1.4	12
83	Liquid Crystal Templating of Mesoporous Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 347, 221-229.	0.3	13
84	A Spectroscopic Study of Group IV Transition Metal Incorporated Direct Templated Mesoporous Catalysts Part 1: A Comparison between Materials Synthesized Using Hydrophobic and Hydrophilic Ti Precursors. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7102-7109.	1.2	39
85	A Ferrocene-Containing Carbohydrate Surfactant: Thermotropic and Lyotropic Phase Behavior. <i>Organometallics</i> , 2000, 19, 3077-3081.	1.1	32
86	Macroscopic Helical and Cylindrical Morphologies from Achiral 1,3-Diynes. <i>Chemistry of Materials</i> , 2000, 12, 1572-1576.	3.2	31
87	Templating mesoporous silicates on surfactant ruthenium complexes: a direct approach to heterogeneous catalysts. <i>Chemical Communications</i> , 1999, , 2031-2032.	2.2	67
88	One-pot incorporation of titanium catalytic sites into mesoporous true liquid crystal templated (TLCT) silica. <i>Chemical Communications</i> , 1999, , 87-88.	2.2	22
89	Inverse Micellar Lyotropic Cubic Phases. , 1999, , 423-436.		0
90	Synthesis of direct templated aligned mesoporous silica coatings within capillaries. <i>Chemical Communications</i> , 1997, , 1843.	2.2	20

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91	Phosphatidylcholine ⁺ fatty acid membranes: effects of headgroup hydration on the phase behaviour and structural parameters of the gel and inverse hexagonal (HII) phases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1327, 131-147.	1.4	76
92	An Fd3m Lyotropic Cubic Phase in a Binary Glycolipid/Water System. <i>Langmuir</i> , 1996, 12, 5250-5253.	1.6	100
93	Freeze Fracture Electron Microscopy of Lyotropic Lipid Systems: Quantitative Analysis of the Inverse Micellar Cubic Phase of Space Group Fd3m (Q227). <i>Journal of Molecular Biology</i> , 1996, 258, 88-103.	2.0	61
94	An inverse micellar Fd3m cubic phase formed by hydrated phosphatidylcholine/fatty alcohol mixtures. <i>Chemistry and Physics of Lipids</i> , 1996, 82, 53-61.	1.5	31
95	Corrections to Some Models of the Curvature Elastic Energy of Inverse Bicontinuous Cubic Phases. <i>Journal De Physique II</i> , 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. <i>Biochemistry</i> , 1992, 31, 279-285.	1.2	185
97	Mechanism of charge storage and luminescence stimulation in BaFBr: RE phosphors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991, 310, 220-223.	0.7	5
98	An inverse face-centered cubic phase formed by diacylglycerol-phosphatidylcholine mixtures. <i>Biochemistry</i> , 1990, 29, 7997-8002.	1.2	121
99	Structure of the inverted hexagonal (HII) phase, and non-lamellar phase transitions of lipids. <i>BBA - Biomembranes</i> , 1990, 1031, 1-69.	7.9	1,011
100	The mechanism of regulation of membrane phase behaviour, structure and interactions by lipid headgroups and electrolyte solution. <i>Faraday Discussions of the Chemical Society</i> , 1986, 81, 179.	2.2	22
101	Thermodynamic and structural properties of phosphatidylserine bilayer membranes in the presence of lithium ions and protons. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 814, 141-150.	1.4	42
102	X-ray diffraction study of the polymorphism of hydrated diacyl and dialkylphosphatidylethanolamines. <i>Biochemistry</i> , 1984, 23, 2634-2644.	1.2	277
103	Calorimetric studies of the gel-fluid (L _β -L _α) and lamellar-inverted hexagonal (L _α -HII) phase transitions in dialkyl- and diacylphosphatidylethanolamines. <i>Biochemistry</i> , 1983, 22, 1280-1289.	1.2	313
104	Induction of the lamellar-inverted hexagonal phase transition in cardiolipin by protons and monovalent cations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983, 734, 347-352.	1.4	91
105	Gel-to-inverted hexagonal (L _β ² -HII) phase transitions in phosphatidylethanolamines and fatty acid-phosphatidylcholine mixtures, demonstrated by ³¹ P-NMR spectroscopy and X-ray diffraction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 690, 117-123.	1.4	112
106	Toward the microfluidic generation of higher-order biomimetic nano-assemblies. , 0, , .		0