

Marcus K Dymond

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

576
citations

567281

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642732

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times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	PCYT1A Regulates Phosphatidylcholine Homeostasis from the Inner Nuclear Membrane in Response to Membrane Stored Curvature Elastic Stress. <i>Developmental Cell</i> , 2018, 45, 481-495.e8.	7.0	99
2	Water activity in Venus's uninhabitable clouds and other planetary atmospheres. <i>Nature Astronomy</i> , 2021, 5, 665-675.	10.1	45
3	Lipidomics of <i>Thalassiosira pseudonana</i> under Phosphorus Stress Reveal Underlying Phospholipid Substitution Dynamics and Novel Diglycosylceramide Substitutes. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	37
4	Cell cycle dependent changes in membrane stored curvature elastic energy: evidence from lipidomic studies. <i>Faraday Discussions</i> , 2013, 161, 481-497.	3.2	27
5	Cationic Type I Amphiphiles As Modulators of Membrane Curvature Elastic Stress in Vivo. <i>Langmuir</i> , 2008, 24, 11743-11751.	3.5	26
6	2D Titanium Carbide (Ti ₃ C ₂ T _x) in Accommodating Intraocular Lens Design. <i>Advanced Functional Materials</i> , 2020, 30, 2000841.	14.9	26
7	Testing the hypothesis that amphiphilic antineoplastic lipid analogues act through reduction of membrane curvature elastic stress. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1371-1386.	3.4	25
8	An <i>in vivo</i> ratio control mechanism for phospholipid homeostasis: evidence from lipidomic studies. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120854.	3.4	25
9	Formation of Inverse Topology Lyotropic Phases in Dioleoylphosphatidylcholine/Oleic Acid and Dioleoylphosphatidylethanolamine/Oleic Acid Binary Mixtures. <i>Langmuir</i> , 2014, 30, 3337-3344.	3.5	24
10	DNA that is dispersed in the liquid crystalline phases of phospholipids is actively transcribed. <i>Chemical Communications</i> , 2008, , 2307.	4.1	23
11	Mammalian phospholipid homeostasis: Homeoviscous adaptation deconstructed by lipidomic data driven modelling. <i>Chemistry and Physics of Lipids</i> , 2015, 191, 136-146.	3.2	23
12	Mammalian phospholipid homeostasis: evidence that membrane curvature elastic stress drives homeoviscous adaptation <i>in vivo</i> . <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160228.	3.4	21
13	Lipid monolayer spontaneous curvatures: A collection of published values. <i>Chemistry and Physics of Lipids</i> , 2021, 239, 105117.	3.2	21
14	Linear dsDNA Partitions Spontaneously into the Inverse Hexagonal Lyotropic Liquid Crystalline Phases of Phospholipids. <i>Journal of the American Chemical Society</i> , 2010, 132, 9728-9732.	13.7	19
15	Glass transition temperatures, melting temperatures, water contact angles and dimensional precision of simple fused deposition model 3D prints and 3D printed channels constructed from a range of commercially available filaments. <i>Chemical Data Collections</i> , 2019, 22, 100244.	2.3	19
16	Factors Affecting Posterior Capsule Opacification in the Development of Intraocular Lens Materials. <i>Pharmaceutics</i> , 2021, 13, 860.	4.5	16
17	The effect of lipids on the enzymatic activity of 6-phosphofructo-1-kinase from <i>B. stearothermophilus</i> . <i>Chemistry and Physics of Lipids</i> , 2011, 164, 713-721.	3.2	14
18	Lipid Spontaneous Curvatures Estimated from Temperature-Dependent Changes in Inverse Hexagonal Phase Lattice Parameters: Effects of Metal Cations. <i>Langmuir</i> , 2016, 32, 10083-10092.	3.5	14

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19	A low volume 3D-printed temperature-controllable cuvette for UV visible spectroscopy. <i>Analytical Biochemistry</i> , 2016, 510, 52-55.	2.4	13
20	Macromolecular crowding and membrane binding proteins: The case of phospholipase A1. <i>Chemistry and Physics of Lipids</i> , 2019, 218, 91-102.	3.2	10
21	Does membrane curvature elastic energy play a role in mediating oxidative stress in lipid membranes?. <i>Free Radical Biology and Medicine</i> , 2021, 171, 191-202.	2.9	10
22	Partitioning of ssRNA Molecules between Preformed Monolithic H ₂ O Liquid Crystalline Phases of Lipids and Supernatant Isotropic Phases. <i>Biomacromolecules</i> , 2010, 11, 3022-3027.	5.4	9
23	Using Curvature Power To Map the Domain of Inverse Micellar Cubic Phases: The Case of Aliphatic Aldehydes in 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine. <i>Langmuir</i> , 2017, 33, 12804-12813.	3.5	8
24	Evidence for chaotropicity/kosmotropicity offset in a yeast growth model. <i>Biotechnology Letters</i> , 2019, 41, 1309-1318.	2.2	8
25	Hysteretic thermal spin-crossover in heteroleptic Fe(<i>scp</i>) complexes using alkyl chain substituted 2,2'-dipyridylamine ligands. <i>Dalton Transactions</i> , 2019, 48, 17340-17348.	3.3	5
26	3D printed UV/VIS detection systems constructed from transparent filaments and immobilised enzymes. <i>Additive Manufacturing</i> , 2020, 33, 101094.	3.0	4
27	Fused filament fabrication and water contact angle anisotropy: The effect of layer height and raster width on the wettability of 3D printed polylactic acid parts. <i>Chemical Data Collections</i> , 2022, 40, 100884.	2.3	3
28	Synthetic Biology: Culture and Bioethical Considerations. , 2016, , 3-34.		1