

# Thomas Arnold

## List of Publications by Year in descending order

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92  
papers

2,733  
citations

159585

30  
h-index

206112

48  
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97  
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97  
docs citations

97  
times ranked

3670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bottom-up Fabrication of Semiconductive Metal-Organic Framework Ultrathin Films. <i>Advanced Materials</i> , 2018, 30, 1704291.	21.0	162
2	Resilience of Malic Acid Natural Deep Eutectic Solvent Nanostructure to Solidification and Hydration. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7473-7483.	2.6	122
3	Surfactant Behavior of Sodium Dodecylsulfate in Deep Eutectic Solvent Choline Chloride/Urea. <i>Langmuir</i> , 2015, 31, 12894-12902.	3.5	105
4	Protein conformation in pure and hydrated deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8667-8670.	2.8	97
5	An acid-compatible co-polymer for the solubilization of membranes and proteins into lipid bilayer-containing nanoparticles. <i>Nanoscale</i> , 2018, 10, 10609-10619.	5.6	91
6	The instrument suite of the European Spallation Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 957, 163402.	1.6	90
7	Gene Duplication of the Eight-stranded $\beta$ -Barrel OmpX Produces a Functional Pore: A Scenario for the Evolution of Transmembrane $\beta$ -Barrels. <i>Journal of Molecular Biology</i> , 2007, 366, 1174-1184.	4.2	86
8	The crystalline structures of the even alkanes hexane, octane, decane, dodecane and tetradecane monolayers adsorbed on graphite at submonolayer coverages and from the liquid. Electronic Supplementary Information available. See <a href="http://www.rsc.org/suppdata/cp/b1/b108190j/">http://www.rsc.org/suppdata/cp/b1/b108190j/</a> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 345-351.	2.8	84
9	Phase separation in the isolation and purification of membrane proteins. <i>BioTechniques</i> , 2007, 43, 427-440.	1.8	81
10	The Use of Detergents to Purify Membrane Proteins. <i>Current Protocols in Protein Science</i> , 2008, 53, Unit 4.8.1-4.8.30.	2.8	79
11	Competitive Adsorption of Simple Linear Alkane Mixtures onto Graphite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10528-10534.	2.6	63
12	The crystalline structures of the odd alkanes pentane, heptane, nonane, undecane, tridecane and pentadecane monolayers adsorbed on graphite at submonolayer coverages and from the liquid. Electronic supplementary information (ESI) available: Fractional coordinates of single repeat units of some alkanes at sub-monolayer coverage and of the monolayer coexisting with the liquid. See <a href="http://www.suppdata/cp/b2/b201988b/">http://www.suppdata/cp/b2/b201988b/</a> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3430-3435.	2.8	62
13	Omp85 from the Thermophilic Cyanobacterium <i>Thermosynechococcus elongatus</i> Differs from Proteobacterial Omp85 in Structure and Domain Composition. <i>Journal of Biological Chemistry</i> , 2010, 285, 18003-18015.	3.4	61
14	Influence of Poly(styrene-co-maleic acid) Copolymer Structure on the Properties and Self-Assembly of SMALP Nanodiscs. <i>Biomacromolecules</i> , 2018, 19, 761-772.	5.4	57
15	Surfactant-Solvent Interaction Effects on the Micellization of Cationic Surfactants in a Carboxylic Acid-Based Deep Eutectic Solvent. <i>Langmuir</i> , 2017, 33, 14304-14314.	3.5	56
16	Micelle structure in a deep eutectic solvent: a small-angle scattering study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14063-14073.	2.8	55
17	Micellization of alkyltrimethylammonium bromide surfactants in choline chloride:glycerol deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33240-33249.	2.8	53
18	Diamond beamline I07: a beamline for surface and interface diffraction. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1245-1253.	2.4	51

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19	Quiescent bilayers at the mica-water interface. <i>Soft Matter</i> , 2013, 9, 7028.	2.7	47
20	Self-Assembly and Anti-Amyloid Cytotoxicity Activity of Amyloid beta Peptide Derivatives. <i>Scientific Reports</i> , 2017, 7, 43637.	3.3	47
21	Synthesis, Thermal Processing, and Thin Film Morphology of Poly(3-hexylthiophene)-Poly(styrenesulfonate) Block Copolymers. <i>Macromolecules</i> , 2015, 48, 2107-2117.	4.8	46
22	Structured oligo(aniline) nanofilms via ionic self-assembly. <i>Soft Matter</i> , 2012, 8, 2824-2832.	2.7	42
23	Direct Observation of $H_2$ Binding to a Metal Oxide Surface. <i>Physical Review Letters</i> , 2008, 101, 165302.	7.8	39
24	Implementation of a beam deflection system for studies of liquid interfaces on beamline I07 at Diamond. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 408-416.	2.4	38
25	Evidence of Lipid Exchange in Styrene Maleic Acid Lipid Particle (SMALP) Nanodisc Systems. <i>Langmuir</i> , 2016, 32, 11845-11853.	3.5	38
26	Structure of lipid multilayers via drop casting of aqueous liposome dispersions. <i>Soft Matter</i> , 2016, 12, 3877-3887.	2.7	34
27	Preferential Adsorption from Binary Mixtures of Short Chain n-Alkanes; The Octane-Decane System. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8577-8582.	2.6	33
28	Structure and Function of Colicin S4, a Colicin with a Duplicated Receptor-binding Domain. <i>Journal of Biological Chemistry</i> , 2009, 284, 6403-6413.	3.4	33
29	Alkane/Alcohol Mixed Monolayers at the Solid/Liquid Interface. <i>Langmuir</i> , 2005, 21, 5085-5093.	3.5	32
30	Insights into the Influence of Solvent Polarity on the Crystallization of Poly(ethylene oxide) Spin-Coated Thin Films via in Situ Grazing Incidence Wide-Angle X-ray Scattering. <i>Macromolecules</i> , 2016, 49, 4579-4586.	4.8	31
31	Counterion binding alters surfactant self-assembly in deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13952-13961.	2.8	30
32	Self-assembly and surface behaviour of pure and mixed zwitterionic amphiphiles in a deep eutectic solvent. <i>Soft Matter</i> , 2018, 14, 5525-5536.	2.7	30
33	Calorimetric Investigation of the Monolayers Formed At Solid-liquid Interface. <i>Magyar Árvizsgáló és Vizsgáló Lap</i> , 1999, 57, 643-651.	1.4	29
34	To Mix or Not To Mix: 2D Crystallization and Mixing Behavior of Saturated and Unsaturated Aliphatic Primary Amides. <i>ACS Nano</i> , 2011, 5, 9122-9137.	14.6	28
35	Carbohydrate Conformation and Lipid Condensation in Monolayers Containing Glycosphingolipid Gb3: Influence of Acyl Chain Structure. <i>Biophysical Journal</i> , 2014, 107, 1146-1155.	0.5	28
36	Changes to DPPC Domain Structure in the Presence of Carbon Nanoparticles. <i>Langmuir</i> , 2017, 33, 10374-10384.	3.5	28

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37	Environmental Pollutant Ozone Causes Damage to Lung Surfactant Protein B (SP-B). <i>Biochemistry</i> , 2015, 54, 5185-5197.	2.5	27
38	The investigation of mixed monolayers adsorbed from solution: octane and nonane mixtures on graphite. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5017-5023.	2.8	26
39	A quantitative parameter for predicting mixing behaviour in adsorbed layers: the 2D isomorphism coefficient. <i>Chemical Physics Letters</i> , 2003, 373, 480-485.	2.6	26
40	Crystalline Structures of Alkylamide Monolayers Adsorbed on the Surface of Graphite. <i>Langmuir</i> , 2010, 26, 8201-8206.	3.5	25
41	Anomalous behaviour of pentane adsorbed at the graphite/liquid interface. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5203-5207.	2.8	24
42	Structure of ann-butane monolayer adsorbed on magnesium oxide (100). <i>Physical Review B</i> , 2006, 74, .	3.2	23
43	Thermodynamic Investigation of the Adsorption of Amides on Graphite from Their Liquids and Binary Mixtures. <i>Langmuir</i> , 2008, 24, 3325-3335.	3.5	23
44	Influence of solvent polarity on the structure of drop-cast electroactive tetra(aniline)-surfactant thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24498-24505.	2.8	22
45	An evolutionarily conserved glycine-tyrosine motif forms a folding core in outer membrane proteins. <i>PLoS ONE</i> , 2017, 12, e0182016.	2.5	22
46	Adsorption behaviour of the binary mixtures of octane and nonane at sub-monolayer coverage on graphite. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3774-3777.	2.8	18
47	Mixing Behavior at the Solid/Liquid Interface: Binary Monolayers of Linear Alcohols Adsorbed on Graphite. <i>Langmuir</i> , 2002, 18, 4010-4013.	3.5	18
48	Characterization of the Multi-Blade 10B-based detector at the CRISP reflectometer at ISIS for neutron reflectometry at ESS. <i>Journal of Instrumentation</i> , 2018, 13, P05009-P05009.	1.2	18
49	Thermodynamic Investigation of Thin Films of Ethane Adsorbed on Magnesium Oxide. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8799-8805.	2.6	17
50	Mixing behaviour in 2D layers of linear alkanes adsorbed on graphite. <i>Chemical Physics Letters</i> , 2002, 352, 57-62.	2.6	16
51	Highly Ordered Titanium Dioxide Nanostructures via a Simple One-Step Vapor-Inclusion Method in Block Copolymer Films. <i>ACS Applied Nano Materials</i> , 2018, 1, 3426-3434.	5.0	16
52	The role of protein hydrophobicity in thionin-phospholipid interactions: a comparison of $\hat{1}\pm 1$ and $\hat{1}\pm 2$ -purothionin adsorbed anionic phospholipid monolayers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13569.	2.8	15
53	Diffraction from physisorbed layers. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 23-32.	7.4	15
54	Langmuir monolayers composed of single and double tail sulfobetaine lipids. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 190-198.	9.4	15

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55	Are organic films from atmospheric aerosol and sea water inert to oxidation by ozone at the air-water interface?. Atmospheric Environment, 2017, 161, 274-287.	4.1	15
56	Neutron scattering and thermodynamic investigations of thin films of n-alkanes adsorbed on MgO(100) surfaces. Physica B: Condensed Matter, 2006, 385-386, 205-207.	2.7	14
57	Neutron Investigations of Rotational Motions in Monolayer and Multilayer Films at the Interface of MgO and Graphite Surfaces. Langmuir, 2009, 25, 4078-4083.	3.5	14
58	Direct observation of molecular hydrogen binding to magnesium oxide (100) surfaces. Physica B: Condensed Matter, 2006, 385-386, 144-146.	2.7	13
59	Reversible restructuring of supported Au nanoparticles during butadiene hydrogenation revealed by operando GISAXS/GIWAXS. Chemical Communications, 2017, 53, 5159-5162.	4.1	13
60	Selective molecular annealing: in situ small angle X-ray scattering study of microwave-assisted annealing of block copolymers. Physical Chemistry Chemical Physics, 2017, 19, 20412-20419.	2.8	13
61	CO oxidation over supported gold nanoparticles as revealed by <i>operando</i> grazing incidence X-ray scattering analysis. Faraday Discussions, 2018, 208, 243-254.	3.2	13
62	A general approach to maximise information density in neutron reflectometry analysis. Machine Learning: Science and Technology, 2020, 1, 035002.	5.0	13
63	Enhanced Bose-Einstein condensation and kinetic energy of liquid <sup>4</sup> He near a free surface. Journal of Physics Condensed Matter, 2004, 16, 4391-4402.	1.8	12
64	Structure of Normal-Alkanes Adsorbed on Hexagonal-Boron Nitride. Journal of Physical Chemistry C, 2014, 118, 2418-2428.	3.1	11
65	Neutron reflectometry with the Multi-Blade <sup>10</sup> B-based detector. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180266.	2.1	11
66	Alkyl chain assisted thin film growth of 2,7-dioctyloxy-benzothienobenzothiophene. Journal of Materials Chemistry C, 2019, 7, 8477-8484.	5.5	11
67	Pentane Adsorbed on MgO(100) Surfaces: A Thermodynamic, Neutron, and Modeling Study. Journal of Physical Chemistry C, 2015, 119, 332-339.	3.1	10
68	Solid monolayers of heptane adsorbed to graphite from its liquid. Journal of Physics and Chemistry of Solids, 1999, 60, 1495-1497.	4.0	9
69	Bayesian determination of the effect of a deep eutectic solvent on the structure of lipid monolayers. Physical Chemistry Chemical Physics, 2019, 21, 6133-6141.	2.8	9
70	Adsorption of a styrene maleic acid (SMA) copolymer-stabilized phospholipid nanodisc on a solid-supported planar lipid bilayer. Journal of Colloid and Interface Science, 2020, 574, 272-284.	9.4	9
71	Investigation of the Adsorption of Alkanes on Hexagonal Boron Nitride from Their Liquids and Binary Mixtures. Journal of Physical Chemistry C, 2012, 116, 10599-10606.	3.1	8
72	The Mixing Behavior of Alkanes Adsorbed on Hexagonal Boron Nitride. Journal of Physical Chemistry C, 2016, 120, 25796-25805.	3.1	8

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73	Efficient long-range electron transfer processes in polyfluorene- <i>perylene diimide</i> blends. <i>Nanoscale</i> , 2018, 10, 10934-10944.	5.6	8
74	Hydrophobicity of surface-immobilised molecules influences architectures formed <i>via</i> interfacial self-assembly of nucleoside-based gelators. <i>Soft Matter</i> , 2018, 14, 9851-9855.	2.7	7
75	Lipid composition in fungal membrane models: effect of lipid fluidity. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1233-1244.	2.3	7
76	Surface-controlled spatially heterogeneous physical properties of a supramolecular gel with homogeneous chemical composition. <i>Chemical Science</i> , 2021, 12, 14260-14269.	7.4	7
77	Linear alcohols adsorbed on graphite from the liquid. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1072-s1073.	2.3	6
78	X-ray reflectivity reveals ionic structure at liquid crystal- <i>aqueous</i> interfaces. <i>Soft Matter</i> , 2017, 13, 5535-5542.	2.7	6
79	Adsorption of Unsaturated Amides on a Graphite Surface: <i>trans</i> -Unsaturated Amides. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6682-6689.	3.1	5
80	Phase Behavior of Heptanamide Adsorbed on a Graphite Substrate. <i>Langmuir</i> , 2011, 27, 15-18.	3.5	4
81	Phosphonium- <i>based</i> polythiophene conjugated polyelectrolytes with different surfactant counterions: thermal properties, self-assembly and photovoltaic performances. <i>Polymer International</i> , 2021, 70, 457-466.	3.1	4
82	The interaction of styrene maleic acid copolymers with phospholipids in Langmuir monolayers, vesicles and nanodiscs; a structural study. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 220-236.	9.4	4
83	Melting of thin films of alkanes on magnesium oxide. <i>European Physical Journal: Special Topics</i> , 2009, 167, 143-150.	2.6	3
84	Planar sucrose substrates for investigating interfaces found in molten chocolate. <i>Food Structure</i> , 2019, 22, 100128.	4.5	3
85	In situ X-ray reflectivity and GISAXS study of mesoporous silica films grown from sodium silicate solution precursors. <i>Microporous and Mesoporous Materials</i> , 2022, , 112018.	4.4	3
86	Wavelength frame multiplication for reflectometry at long-pulse neutron sources. <i>Review of Scientific Instruments</i> , 2020, 91, 125111.	1.3	2
87	Sample cell for studying liquid interfaces with an <i>in situ</i> electric field using X-ray reflectivity and application to clay particles at <i>oil</i> - <i>oil</i> interfaces. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 915-917.	2.4	1
88	The effects of native and modified clupeine on the structure of gram-negative model membranes. <i>Food Structure</i> , 2019, 22, 100127.	4.5	1
89	The Structure of Dodecanamide Monolayers Adsorbed on Graphite. , 2010, , 5-8.		1
90	Simultaneous coherent and incoherent neutron scattering of polyalcohols adsorbed on ice. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1371-s1372.	2.3	0

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91	Changes to lung surfactant monolayers upon exposure to gas phase ozone observed using X-ray and neutron reflectivity. Environmental Science Atmospheres, 0, , .	2.4	0
92	The Sixteenth International Conference on Surface X-ray and Neutron Scattering (SXNS16). Synchrotron Radiation News, 0, , 1-2.	0.8	0