Moshe Deutsch

List of Publications by Year
in descending order

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54	2,824	257450	168389
papers	citations	24 h-index	53 g-index

55	55	55	2582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Layering of Fluorinated Ionic Liquids at a Charged Sapphire (0001) Surface. Science, 2008, 322, 424-428.	12.6	576
2	Surface Layering in Ionic Liquids:Â An X-ray Reflectivity Study. Journal of the American Chemical Society, 2005, 127, 7796-7804.	13.7	277
3	Surface Crystallization in a Liquid AuSi Alloy. Science, 2006, 313, 77-80.	12.6	184
4	Two-Dimensional Crystallography of Amphiphilic Molecules at the Airâ€“Water Interface. Angewandte Chemie International Edition in English, 1992, 31, 130-152.	4.4	174
5	Layering of [BMIM]+-based ionic liquids at a charged sapphire interface. Journal of Chemical Physics, 2009, 131, 094701.	3.0	127
6	Self-assembly of organic films on a liquid metal. Nature, 1996, 384, 250-252.	27.8	116
7	Elucidation of the two-dimensional structure of an Î±-amino acid surfactant monolayer on water using synchrotron X-ray diffraction. Nature, 1987, 328, 63-66.	27.8	101
8	Surface layering and melting in an ionic liquid studied by resonant soft X-ray reflectivity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3733-3737.	7.1	97
9	How faceted liquid droplets grow tails. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 493-496.	7.1	82
10	X-ray study of the liquid potassium surface:â€ƒStructure and capillary wave excitations. Physical Review B, 2003, 67, .	3.2	81
11	Anomalous layering at the liquid Sn surface. Physical Review B, 2004, 70, .	3.2	73
12	Surface layering of liquids: The role of surface tension. Physical Review B, 2004, 69, .	3.2	69
13	Surface freezing of chain molecules at the liquidâ€“liquid and liquidâ€“air interfaces. Faraday Discussions, 2005, 129, 339-352.	3.2	65
14	Nanoscale structure of surfactant-induced nanoparticle monolayers at the oilâ€“water interface. Soft Matter, 2012, 8, 11478.	2.7	62
15	Modification of deeply buried hydrophobic interfaces by ionic surfactants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5522-5525.	7.1	58
16	Molecular scale structure and dynamics at an ionic liquid/electrode interface. Faraday Discussions, 2017, 206, 141-157.	3.2	57
17	Atomic-Scale Surface Demixing in a Eutectic Liquid BiSn Alloy. Physical Review Letters, 2005, 95, 106103.	7.8	55
18	KÎ±andKÎ²x-ray emission spectra of metallic scandium. Physical Review A, 1999, 60, 2018-2033.	2.5	42

#	Article	IF	Citations
19	Surface structure evolution in a homologous series of ionic liquids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1100-E1107.	7.1	42
20	Crystalline surface phases of the liquid Au-Si eutectic alloy. Physical Review B, 2007, 76, .	3.2	37
21	Temperature-Tuned Faceting and Shape Changes in Liquid Alkane Droplets. Langmuir, 2017, 33, 1305-1314.	3.5	34
22	Surface structure of liquid Bi and Sn: An x-ray reflectivity study. Physical Review B, 2009, 79, .	3.2	31
23	From faceted vesicles to liquid icoshedra: Where topology and crystallography meet. Current Opinion in Colloid and Interface Science, 2016, 22, 35-40.	7.4	31
24	In situ X-ray studies of adlayer-induced crystal nucleation at the liquidâ€“liquid interface. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6663-6668.	7.1	26
25	Self-segregated nanostructure in room temperature ionic liquids. Soft Matter, 2017, 13, 6947-6955.	2.7	26
26	Self-faceting of emulsion droplets as a route to solid icosahedra and other polyhedra. Journal of Colloid and Interface Science, 2019, 538, 541-545.	9.4	24
27	Interfacial Electrodeposition of Silver:Â The Role of Wetting. Langmuir, 1996, 12, 5180-5187.	3.5	22
28	Atomic-Scale Structure of a Liquid Metalâ^'Insulator Interface. Journal of Physical Chemistry Letters, 2010, 1, 1041-1045.	4.6	22
29	Nanostructures, Faceting, and Splitting in Nanoliter to Yoctoliter Liquid Droplets. Nano Letters, 2019, 19, 3161-3168.	9.1	22
30	Structure of Mercaptobiphenyl Monolayers on Mercury. Journal of Physical Chemistry B, 2005, 109, 12534-12543.	2.6	19
31	Order and Melting in Self-Assembled Alkanol Monolayers on Amorphous SiO₂. Journal of Physical Chemistry C, 2015, 119, 17648-17654.	3.1	16
32	Surface Phases and Surface Freezing in an Ionic Liquid. Journal of Physical Chemistry C, 2019, 123, 3058-3066.	3.1	15
33	AC-Driven Interfacial Electrodeposition of Silver. Langmuir, 1997, 13, 4722-4728.	3.5	13
34	Macroscopic polarity of connective tissue is due to discrete polar structures. Biopolymers, 1986, 25, 601-606.	2.4	11
35	Electroaggregation of Silver Interfacial Colloids. Journal of Physical Chemistry B, 1997, 101, 9757-9766.	2.6	11
36	Surfactant-Induced Phases in Water-Supported Alkane Monolayers: II. Structure. Langmuir, 2014, 30, 8010-8019.	3.5	11

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37	Liquid-Mercury-Supported Langmuir Films of Ionic Liquids: Isotherms, Structure, and Time Evolution. Langmuir, 2016, 32, 3164-3173.	3.5	11
38	Polyhedral liquid droplets: Recent advances in elucidation and application. Current Opinion in Colloid and Interface Science, 2020, 49, 107-117.	7.4	11
39	Polyhedral Water Droplets: Shape Transitions and Mechanism. Journal of the American Chemical Society, 2020, 142, 8672-8678.	13.7	11
40	Temperature- and potential-dependent structure of the mercury-electrolyte interface. Physical Review B, 2016, 93, .	3.2	10
41	Precise Self-Positioning of Colloidal Particles on Liquid Emulsion Droplets. Langmuir, 2019, 35, 13053-13061.	3.5	10
42	Temperature evolution of the bulk nano-structure in a homologous series of room temperature ionic liquids. Journal of Molecular Liquids, 2020, 300, 112280.	4.9	10
43	Two-Dimensional Order in Mercury-Supported Langmuir Films of Fatty Diacids. Langmuir, 2012, 28, 15586-15597.	3.5	6
44	Nanoparticle Positioning on Liquid and Polymerized Faceted Droplets. Journal of Physical Chemistry C, 2019, 123, 28192-28200.	3.1	6
45	Nanoscale Structure in Shortâ€Chain Ionic Liquids. ChemPhysChem, 2020, 21, 1887-1897.	2.1	6
46	Salt-induced stability and modified interfacial energetics in self-faceting emulsion droplets. Journal of Colloid and Interface Science, 2022, 621, 131-138.	9.4	6
47	Nucleation and Growth of PbBrF Crystals at the Liquid Mercuryâ€“Electrolyte Interface Studied by Operando X-ray Scattering. Langmuir, 2020, 36, 10905-10915.	3.5	5
48	Binary mixtures of homologous room-temperature ionic liquids: Temperature and composition evolution of the nanoscale structure. Journal of Molecular Liquids, 2021, 338, 116587.	4.9	5
49	Hydrogen-Bonded Order in Mercury-Supported Monolayers of End-Functionalized Alkanes. Journal of Physical Chemistry C, 2011, 115, 25451-25463.	3.1	4
50	Highly anisotropic thermal expansion in molecular films of dicarboxylic fatty acids. Physical Review B, 2012, 85, .	3.2	4
51	Surfactant-Induced Phases in Water-Supported Alkane Monolayers: I. Thermodynamics. Langmuir, 2014, 30, 8000-8009.	3.5	4
52	Binary mixtures of homologous room-temperature ionic liquids: Nanoscale structure evolution with alkyl lengthsâ€™ difference. Journal of Molecular Liquids, 2022, 355, 118874.	4.9	3
53	The structure of Langmuir films of long diols on mercury. Soft Matter, 2013, 9, 11204.	2.7	1
54	Comment on â€œBi-layering at ionic liquid surfaces: a sum â€“ frequency generation vibrational spectroscopy â€“ and molecular dynamics simulation-based studyâ€•by T. Iwahashi, T. Ishiyama, Y. Sakai, A. Morita, D. Kim and Y. Ouchi, Phys. Chem. Chem. Phys., 2020, 22, 12565. Physical Chemistry Chemical Physics, 2021, 23, 5020-5027.	2.8	1