

Paul Ashby

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,725
citations

279798

23
h-index

315739

38
g-index

43
all docs

43
docs citations

43
times ranked

2461
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfigurable ferromagnetic liquid droplets. <i>Science</i> , 2019, 365, 264-267.	12.6	278
2	Harnessing liquid-in-liquid printing and micropatterned substrates to fabricate 3-dimensional all-liquid fluidic devices. <i>Nature Communications</i> , 2019, 10, 1095.	12.8	117
3	Single-Walled Carbon Nanotube AFM Probes: Optimal Imaging Resolution of Nanoclusters and Biomolecules in Ambient and Fluid Environments. <i>Nano Letters</i> , 2004, 4, 1725-1731.	9.1	114
4	Fine-Tuning Nanoparticle Packing at Water-Oil Interfaces Using Ionic Strength. <i>Nano Letters</i> , 2017, 17, 6453-6457.	9.1	97
5	Visualization of the flat electronic band in twisted bilayer graphene near the magic angle twist. <i>Nature Physics</i> , 2021, 17, 184-188.	16.7	93
6	Laser-sculptured ultrathin transition metal carbide layers for energy storage and energy harvesting applications. <i>Nature Communications</i> , 2019, 10, 3112.	12.8	91
7	The living interface between synthetic biology and biomaterial design. <i>Nature Materials</i> , 2022, 21, 390-397.	27.5	68
8	Probing Intermolecular Forces and Potentials with Magnetic Feedback Chemical Force Microscopy. <i>Journal of the American Chemical Society</i> , 2000, 122, 9467-9472.	13.7	63
9	Stable Casimir equilibria and quantum trapping. <i>Science</i> , 2019, 364, 984-987.	12.6	63
10	Infrared Nanospectroscopy at the Graphene-Electrolyte Interface. <i>Nano Letters</i> , 2019, 19, 5388-5393.	9.1	55
11	Engineering the S-Layer of <i>Caulobacter crescentus</i> as a Foundation for Stable, High-Density, 2D Living Materials. <i>ACS Synthetic Biology</i> , 2019, 8, 181-190.	3.8	55
12	Compartmentalized, All-Aqueous Flow-Through-Coordinated Reaction Systems. <i>CheM</i> , 2019, 5, 2678-2690.	11.7	50
13	Direct observation of nanoparticle-surfactant assembly and jamming at the water-oil interface. <i>Science Advances</i> , 2020, 6, .	10.3	44
14	Investigation of Defects and Errors in Nanomagnetic Logic Circuits. <i>IEEE Nanotechnology Magazine</i> , 2012, 11, 760-762.	2.0	42
15	Ideal Scan Path for High-Speed Atomic Force Microscopy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 381-391.	5.8	38
16	The Interfacial Assembly of Polyoxometalate Nanoparticle Surfactants. <i>Nano Letters</i> , 2018, 18, 2525-2529.	9.1	37
17	Hydration Structure at the Al_2O_3 (0001) Surface: Insights from Experimental Atomic Force Spectroscopic Data and Atomistic Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10433-10444.	3.1	34
18	Ultra-Sensitive Imaging and Interfacial Analysis of Patterned Hydrophilic SAM Surfaces Using Energy Dissipation Chemical Force Microscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 6814-6818.	13.7	33

#	ARTICLE	IF	CITATIONS
19	Stabilizing Liquids Using Interfacial Supramolecular Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12112-12116.	13.8	30
20	Linking multi-scale 3D microstructure to potential enhanced natural gas recovery and subsurface CO ₂ storage for Bowland shale, UK. <i>Energy and Environmental Science</i> , 2021, 14, 4481-4498.	30.8	27
21	Improved accuracy and speed in scanning probe microscopy by image reconstruction from non-gridded position sensor data. <i>Nanotechnology</i> , 2013, 24, 335703.	2.6	26
22	Mechanical Properties of Solidifying Assemblies of Nanoparticle Surfactants at the Oil-Water Interface. <i>Langmuir</i> , 2019, 35, 13340-13350.	3.5	25
23	Hanging droplets from liquid surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8360-8365.	7.1	25
24	Guiding kinetic trajectories between jammed and unjammed states in 2D colloidal nanocrystal-polymer assemblies with zwitterionic ligands. <i>Science Advances</i> , 2018, 4, eaap8045.	10.3	24
25	Ultrahigh-resolution scanning microwave impedance microscopy of moiré lattices and superstructures. <i>Science Advances</i> , 2020, 6, .	10.3	23
26	Height drift correction in non-raster atomic force microscopy. <i>Ultramicroscopy</i> , 2014, 137, 48-54.	1.9	22
27	Brownian Force Profile Reconstruction of Interfacial 1-Nonanol Solvent Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 16973-16980.	13.7	18
28	Assessing Pair Interaction Potentials of Nanoparticles on Liquid Interfaces. <i>ACS Nano</i> , 2019, 13, 3075-3082.	14.6	18
29	Engineering High-Yield Biopolymer Secretion Creates an Extracellular Protein Matrix for Living Materials. <i>MSystems</i> , 2021, 6, .	3.8	17
30	Fundamental understanding of chemical processes in extreme ultraviolet resist materials. <i>Journal of Chemical Physics</i> , 2018, 149, 154305.	3.0	15
31	Continuous, autonomous subsurface cargo shuttling by nature-inspired meniscus-climbing systems. <i>Nature Chemistry</i> , 2022, 14, 208-215.	13.6	14
32	Precision Engineering of 2D Protein Layers as Chelating Biogenic Scaffolds for Selective Recovery of Rare-Earth Elements. <i>Journal of the American Chemical Society</i> , 2022, 144, 854-861.	13.7	14
33	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50531-50538.	8.0	12
34	Stabilizing Liquids Using Interfacial Supramolecular Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 12240-12244.	2.0	11
35	The Buckling Spectra of Nanoparticle Surfactant Assemblies. <i>Nano Letters</i> , 2021, 21, 7116-7122.	9.1	11
36	Spontaneous emulsification induced by nanoparticle surfactants. <i>Journal of Chemical Physics</i> , 2020, 153, 224705.	3.0	7

#	ARTICLE	IF	CITATIONS
37	Electrostatically actuated encased cantilevers. Beilstein Journal of Nanotechnology, 2018, 9, 1381-1389.	2.8	6
38	Visualizing Assembly Dynamics of All-liquid 3D Architectures. Small, 2022, 18, e2105017.	10.0	6
39	Direct Mapping of Intermolecular Interaction Potentials. , 2008, , 273-285.		1