

# Andrew J Pascall

## List of Publications by Year in descending order

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33  
papers

1,119  
citations

516710

16  
h-index

477307

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acid-Base Bifunctional and Dielectric Outer-Sphere Effects in Heterogeneous Catalysis: A Comparative Investigation of Model Primary Amine Catalysts. <i>Journal of the American Chemical Society</i> , 2006, 128, 3737-3747.	13.7	271
2	Field responsive mechanical metamaterials. <i>Science Advances</i> , 2018, 4, eaau6419.	10.3	154
3	Additively manufacturable micro-mechanical logic gates. <i>Nature Communications</i> , 2019, 10, 882.	12.8	93
4	Induced Charge Electro-osmosis over Controllably Contaminated Electrodes. <i>Physical Review Letters</i> , 2010, 104, 088301.	7.8	80
5	Synthesis of Multifunctional Micrometer-Sized Particles with Magnetic, Amphiphilic, and Anisotropic Properties. <i>Advanced Materials</i> , 2011, 23, 2348-2352.	21.0	55
6	Light-Directed Electrophoretic Deposition: A New Additive Manufacturing Technique for Arbitrarily Patterned 3D Composites. <i>Advanced Materials</i> , 2014, 26, 2252-2256.	21.0	51
7	Colloidal Materials for 3D Printing. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2019, 10, 17-42.	6.8	47
8	Induced charge electroosmosis micropumps using arrays of Janus micropillars. <i>Lab on A Chip</i> , 2014, 14, 3300-3312.	6.0	40
9	Direct metal writing: Controlling the rheology through microstructure. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	40
10	Dramatic effect of oxide on measured liquid metal rheology. <i>Journal of Rheology</i> , 2020, 64, 119-128.	2.6	39
11	Electrokinetics at liquid/liquid interfaces. <i>Journal of Fluid Mechanics</i> , 2011, 684, 163-191.	3.4	29
12	On-Demand and Location Selective Particle Assembly via Electrophoretic Deposition for Fabricating Structures with Particle-to-Particle Precision. <i>Langmuir</i> , 2015, 31, 3563-3568.	3.5	27
13	Mesoscale Particle-Based Model of Electrophoretic Deposition. <i>Langmuir</i> , 2017, 33, 652-661.	3.5	24
14	Morphology of Electrophoretically Deposited Films on Electrode Strips. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1702-1707.	2.6	21
15	Tunable Amorphous Photonic Materials with Pigmentary Colloidal Nanostructures. <i>Advanced Optical Materials</i> , 2017, 5, 1600838.	7.3	21
16	Asymmetric flows over symmetric surfaces: capacitive coupling in induced-charge electro-osmosis. <i>New Journal of Physics</i> , 2009, 11, 075030.	2.9	19
17	A combined numerical and experimental study to elucidate primary breakup dynamics in liquid metal droplet-on-demand printing. <i>Physics of Fluids</i> , 2020, 32, .	4.0	16
18	An automated, high-throughput experimental system for induced charge electrokinetics. <i>Lab on A Chip</i> , 2010, 10, 2350.	6.0	11

#	ARTICLE	IF	CITATIONS
19	Mesoscale Particle-Based Model of Electrophoresis. Journal of the Electrochemical Society, 2015, 162, D3030-D3035.	2.9	10
20	Experimentally probing the extremes of droplet-on-demand printability via liquid metals. Physics of Fluids, 2021, 33, .	4.0	9
21	Projection based light-directed electrophoretic deposition for additive manufacturing. Additive Manufacturing, 2018, 22, 330-333.	3.0	8
22	Microstructural Characterization of Pure Tin Produced by the Drop-on-Demand Technique of Liquid Metal Jetting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4000-4005.	2.2	8
23	In-process monitoring and prediction of droplet quality in droplet-on-demand liquid metal jetting additive manufacturing using machine learning. Journal of Intelligent Manufacturing, 2022, 33, 2093-2117.	7.3	8
24	Light Directed Electrophoretic Deposition for Additive Manufacturing: Spatially Localized Deposition Control with Photoconductive Counter Electrodes. Key Engineering Materials, 0, 654, 261-267.	0.4	7
25	Additive manufacturing of platinum group element (PGE) reference materials with a silica matrix. Rapid Communications in Mass Spectrometry, 2020, 34, e8627.	1.5	6
26	Correlating dynamic microstructure to observed color in electrophoretic displays via <i>in situ</i> small-angle x-ray scattering. Physical Review Materials, 2020, 4, .	2.4	6
27	In-situ monitoring for liquid metal jetting using a millimeter-wave impedance diagnostic. Scientific Reports, 2020, 10, 22325.	3.3	6
28	Millimeter-wave electromagnetic monitoring for liquid metal droplet-on-demand printing. Journal of Applied Physics, 2021, 130, .	2.5	4
29	An in-situ millimeter-wave diagnostic for droplet characterization during jetting-based additive manufacturing processes. , 2020, , .		4
30	Modeling flow-based electrophoretic deposition for functionally graded materials. Materials and Design, 2021, 209, 110000.	7.0	3
31	Quantitative Analysis of Color Differences within High Contrast, Low Power Reversible Electrophoretic Displays. ECS Transactions, 2018, 82, 59-66.	0.5	2
32	10.1122/1.5117144.1. , 2019, , .		0
33	10.1063/5.0076594.1. , 2021, , .		0