

# Andrew J Urquhart

## List of Publications by Year in descending order

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56  
papers

1,872  
citations

236925

25  
h-index

265206

42  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Supramolecular Hydrogels for Selection of Lineage-Guiding Metabolites in Stem Cell Cultures. <i>CheM</i> , 2016, 1, 298-319.	11.7	170
2	Dramatic Specificâ€œlon Effect in Supramolecular Hydrogels. <i>Chemistry - A European Journal</i> , 2012, 18, 11723-11731.	3.3	106
3	Picoliter Water Contact Angle Measurement on Polymers. <i>Langmuir</i> , 2007, 23, 6875-6878.	3.5	104
4	PEGylated Silk Nanoparticles for Anticancer Drug Delivery. <i>Biomacromolecules</i> , 2015, 16, 3712-3722.	5.4	98
5	Lipid-like Self-Assembling Peptide Nanovesicles for Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8184-8189.	8.0	95
6	Polymer surface functionalities that control human embryoid body cell adhesion revealed by high throughput surface characterization of combinatorial material microarrays. <i>Biomaterials</i> , 2010, 31, 8827-8838.	11.4	93
7	TOF-SIMS Analysis of a 576 Micropatterned Copolymer Array To Reveal Surface Moieties That Control Wettability. <i>Analytical Chemistry</i> , 2008, 80, 135-142.	6.5	73
8	Recent advances in compartmentalized synthetic architectures as drug carriers, cell mimics and artificial organelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 199-213.	5.0	73
9	High Throughput Surface Characterisation of a Combinatorial Material Library. <i>Advanced Materials</i> , 2007, 19, 2486-2491.	21.0	70
10	Mapping the Interactions among Biomaterials, Adsorbed Proteins, and Human Embryonic Stem Cells. <i>Advanced Materials</i> , 2009, 21, 2781-2786.	21.0	67
11	Efficient Epoxidation of a Terminal Alkene Containing Allylic Hydrogen Atoms:â€œ trans-Methylstyrene on Cu{111}. <i>Journal of the American Chemical Society</i> , 2005, 127, 6069-6076.	13.7	63
12	Sustained and controlled release of lipophilic drugs from a self-assembling amphiphilic peptide hydrogel. <i>International Journal of Pharmaceutics</i> , 2014, 474, 103-111.	5.2	49
13	Development of Solid Lipid Nanoparticles for Enhanced Solubility of Poorly Soluble Drugs. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 634-640.	1.1	46
14	Preparation and characterization of ibuprofen solid lipid nanoparticles with enhanced solubility. <i>Journal of Microencapsulation</i> , 2011, 28, 74-81.	2.8	39
15	The diffusion dynamics of PEGylated liposomes in the intact vitreous of the ex vivo porcine eye: A fluorescence correlation spectroscopy and biodistribution study. <i>International Journal of Pharmaceutics</i> , 2017, 522, 90-97.	5.2	38
16	Influence of the Plasma Sheath on Plasma Polymer Deposition in Advance of a Mask and down Pores. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8487-8494.	2.6	36
17	High throughput surface characterization: A review of a new tool for screening prospective biomedical material arrays. <i>Journal of Drug Targeting</i> , 2010, 18, 741-751.	4.4	35
18	A Methodology for Investigating Protein Adhesion and Adsorption to Microarrayed Combinatorial Polymers. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1298-1302.	3.9	32

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19	Binding of human serum albumin to PEGylated liposomes: insights into binding numbers and dynamics by fluorescence correlation spectroscopy. <i>Nanoscale</i> , 2016, 8, 19726-19736.	5.6	32
20	Encapsulation of water insoluble drugs in mesoporous silica nanoparticles using supercritical carbon dioxide. <i>Journal of Nanomedicine &amp; Nanotechnology</i> , 2011, 02, .	1.1	31
21	Partial least squares regression as a powerful tool for investigating large combinatorial polymer libraries. <i>Surface and Interface Analysis</i> , 2009, 41, 127-135.	1.8	28
22	Ultrasound-mediated delivery enhances therapeutic efficacy of MMP sensitive liposomes. <i>Journal of Controlled Release</i> , 2020, 325, 121-134.	9.9	27
23	Copper is highly effective for the epoxidation of a "difficult" alkene, whereas silver is not. <i>Surface Science</i> , 2005, 578, L85-L88.	1.9	26
24	Polymorphism and polymerisation of acrylic and methacrylic acid at high pressure. <i>CrystEngComm</i> , 2011, 13, 4503.	2.6	26
25	Bioinspired silica as drug delivery systems and their biocompatibility. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5028-5042.	5.8	26
26	Critical Influence of Adsorption Geometry in the Heterogeneous Epoxidation of "Allylic" Alkenes: A Structure and Reactivity of Three Phenylpropene Isomers on Cu(111). <i>Journal of the American Chemical Society</i> , 2005, 127, 17007-17011.	13.7	25
27	Electrochemical Promotion by Potassium of Rhodium-Catalyzed Fischer-Tropsch Synthesis: A XP Spectroscopy and Reaction Studies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10591-10597.	2.6	23
28	Poly(N-acryloylmorpholine): A simple hydrogel system for temporal and spatial control over cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1809-1815.	4.0	23
29	Beta-adrenoceptor antagonists affect amyloid nanostructure; amyloid hydrogels as drug delivery vehicles. <i>Chemical Communications</i> , 2013, 49, 5082.	4.1	22
30	Bioinspired Silica Offers a Novel, Green, and Biocompatible Alternative to Traditional Drug Delivery Systems. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1493-1503.	5.2	22
31	Adsorbate conformation determines catalytic chemoselectivity: crotonaldehyde on the Pt(111) surface. <i>Chemical Communications</i> , 2005, , 1977.	4.1	21
32	ToF-SIMS Analysis of Dexamethasone Distribution in the Isolated Perfused Eye. , 2011, 52, 8413.		21
33	A pharmacokinetic study of a combination of beta adrenoreceptor antagonists "In the isolated perfused ovine eye. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 393-401.	4.3	21
34	Polymer Templating of Supercooled Indomethacin for Polymorph Selection. <i>ACS Combinatorial Science</i> , 2012, 14, 155-159.	3.8	21
35	Multifarious Biologic Loaded Liposomes that Stimulate the Mammalian Target of Rapamycin Signaling Pathway Show Retina Neuroprotection after Retina Damage. <i>ACS Nano</i> , 2018, 12, 7497-7508.	14.6	21
36	Polymorphism of a polymer precursor: metastable glycolide polymorph recovered via large scale high-pressure experiments. <i>CrystEngComm</i> , 2015, 17, 1778-1782.	2.6	19

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37	Recent developments in liposomal drug delivery systems for the treatment of retinal diseases. <i>Drug Discovery Today</i> , 2019, 24, 1660-1668.	6.4	16
38	Surface-Mediated Two-Dimensional Growth of the Pharmaceutical Carbamazepine. <i>ACS Nano</i> , 2010, 4, 5061-5068.	14.6	15
39	Adsorption geometry and core excitation spectra of three phenylpropene isomers on Cu(111). <i>Journal of Chemical Physics</i> , 2006, 125, 034701.	3.0	14
40	Investigation of Acrylic Acid at High Pressure Using Neutron Diffraction. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4044-4051.	2.6	14
41	Reaction of Acetylenedicarboxylic Acid Made Easy: High-Pressure Route for Polymerization. <i>Crystal Growth and Design</i> , 2018, 18, 1425-1431.	3.0	12
42	Endothelial Protein Câ€“Targeting Liposomes Show Enhanced Uptake and Improved Therapeutic Efficacy in Human Retinal Endothelial Cells. , 2018, 59, 2119.		11
43	Electrochemical Promotion by Potassium of Rh-Catalysed Fischerâ€“Tropsch Synthesis at High Pressure. <i>Catalysis Letters</i> , 2005, 103, 137-141.	2.6	9
44	ToF-SIMS analysis of ocular tissues reveals biochemical differentiation and drug distribution. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 328-333.	4.3	9
45	Supramolecular hair dyes: a new application of cocrystallization. <i>CrystEngComm</i> , 2016, 18, 5360-5364.	2.6	9
46	Compression of glycolide-h <sub>4</sub> to 6â€“GPa. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017, 73, 1151-1157.	1.1	9
47	Should Investors Include Bitcoin in Their Portfolios? A Portfolio Theory Approach. <i>SSRN Electronic Journal</i> , 0, , .	0.4	6
48	An in Vivo Mouse Model to Investigate the Effect of Local Anesthetic Nanomedicines on Axonal Conduction and Excitability. <i>Frontiers in Neuroscience</i> , 2018, 12, 494.	2.8	6
49	Cell targeting strategy affects the intracellular trafficking of liposomes altering loaded doxorubicin release kinetics and efficacy in endothelial cells. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119715.	5.2	5
50	Investigation of Methacrylic Acid at High Pressure Using Neutron Diffraction. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12147-12154.	2.6	4
51	Pressure-Induced Polymorphism of Caprolactam: A Neutron Diffraction Study. <i>Molecules</i> , 2019, 24, 2174.	3.8	4
52	Carbamazepine on a carbamazepine monolayer forms unique 1D supramolecular assemblies. <i>Chemical Communications</i> , 2011, 47, 9627.	4.1	3
53	Inclusion of Water Insoluble Drugs in Amorphous Silica Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 550-557.	1.1	3
54	Two peptides targeting endothelial receptors are internalized into murine brain endothelial cells. <i>PLoS ONE</i> , 2021, 16, e0249686.	2.5	1

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55	A new metastable form of glycolide obtained via large scale high pressure experiments. <i>Journal of Controlled Release</i> , 2015, 213, e45-e46.	9.9	0
56	Under pressure to react “ acetylenedicarboxylic acid polymerisation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1379-C1379.	0.1	0