

Benjamin Muir

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,666
citations

30
h-index

48
g-index

88
ext. papers

2,979
ext. citations

6.1
avg, IF

4.92
L-index

#	Paper	IF	Citations
86	A polytherapy based approach to combat antimicrobial resistance using cubosomes.. <i>Nature Communications</i> , 2022 , 13, 343	17.4	4
85	Applications of multivariate analysis and unsupervised machine learning to ToF-SIMS images of organic, bioorganic, and biological systems.. <i>Biointerphases</i> , 2022 , 17, 020802	1.8	1
84	Resonant Acoustic Mixing Method to Produce Lipid-Based Liquid-Crystal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10653-10664	3.8	0
83	Generation and Characterization of a Library of Novel Biologically Active Functional Surfactants (Surfmers) Using Combined High-Throughput Methods. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43290-43300	9.5	1
82	Hyperosmotic Infusion and Oxidized Surfaces Are Essential for Biofilm Formation of From the Neonatal Intensive Care Unit. <i>Frontiers in Microbiology</i> , 2020 , 11, 920	5.7	2
81	ToF-SIMS and Machine Learning for Single-Pixel Molecular Discrimination of an Acrylate Polymer Microarray. <i>Analytical Chemistry</i> , 2020 , 92, 6587-6597	7.8	12
80	An ultrafast insulin formulation enabled by high-throughput screening of engineered polymeric excipients. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	18
79	Self-Organizing Map and Relational Perspective Mapping for the Accurate Visualization of High-Dimensional Hyperspectral Data. <i>Analytical Chemistry</i> , 2020 , 92, 10450-10459	7.8	16
78	Lipid Nanodiscs via Ordered Copolymers. <i>Chem</i> , 2020 , 6, 2782-2795	16.2	15
77	Treatment of skin infection using rifampicin loaded lipid nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 33608-33619	3.7	8
76	Analyzing 3D hyperspectral TOF-SIMS depth profile data using self-organizing map-relational perspective mapping. <i>Biointerphases</i> , 2020 , 15, 061004	1.8	3
75	Visualizing ToF-SIMS Hyperspectral Imaging Data Using Color-Tagged Toroidal Self-Organizing Maps. <i>Analytical Chemistry</i> , 2019 , 91, 13855-13865	7.8	12
74	Optimal machine learning models for robust materials classification using ToF-SIMS data. <i>Applied Surface Science</i> , 2019 , 487, 773-783	6.7	17
73	Elucidating Surface and Bulk Phase Transformation in Fischer-Tropsch Synthesis Catalysts and Their Influences on Catalytic Performance. <i>ACS Catalysis</i> , 2019 , 9, 7976-7983	13.1	22
72	Effect of mass segment size on polymer ToF-SIMS multivariate analysis using a universal data matrix. <i>Applied Surface Science</i> , 2019 , 478, 465-477	6.7	15
71	Ab initio RAFT emulsion polymerization mediated by small cationic RAFT agents to form polymers with low molar mass dispersity. <i>Polymer Chemistry</i> , 2019 , 10, 5044-5051	4.9	10
70	Information content of ToF-SIMS data: Effect of spectral binning. <i>Applied Surface Science</i> , 2019 , 493, 1067-1074	6.7	5

69	Kinetic modelling of the reversible addition-fragmentation chain transfer polymerisation of N-isopropylacrylamide. <i>European Polymer Journal</i> , 2019 , 120, 109193	5.2	1
68	Rapid evaluation of immobilized immunoglobulins using automated mass-segmented ToF-SIMS. <i>Biointerphases</i> , 2019 , 14, 061002	1.8	3
67	Non-lamellar lyotropic liquid crystalline nanoparticles enhance the antibacterial effects of rifampicin against <i>Staphylococcus aureus</i> . <i>Journal of Colloid and Interface Science</i> , 2018 , 519, 107-118	9.3	30
66	Multivariate analysis of ToF-SIMS data using mass segmented peak lists. <i>Surface and Interface Analysis</i> , 2018 , 50, 713-728	1.5	17
65	Distinguishing Chemically Similar Polyamide Materials with ToF-SIMS Using Self-Organizing Maps and a Universal Data Matrix. <i>Analytical Chemistry</i> , 2018 , 90, 12475-12484	7.8	15
64	A QCM-D and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. <i>ChemBioChem</i> , 2017 , 18, 921-930	3.8	14
63	Surface immobilized antibody orientation determined using ToF-SIMS and multivariate analysis. <i>Acta Biomaterialia</i> , 2017 , 55, 172-182	10.8	22
62	Polypropylene microtitre plates modified with [Cr(OH)] for enhanced ELISA sensitivity. <i>Journal of Immunological Methods</i> , 2017 , 446, 70-73	2.5	3
61	Orientation and characterization of immobilized antibodies for improved immunoassays (Review). <i>Biointerphases</i> , 2017 , 12, 02D301	1.8	177
60	Determining the limit of detection of surface bound antibody. <i>Biointerphases</i> , 2017 , 12, 031007	1.8	7
59	Dual-modality NIRF-MRI cubosomes and hexosomes: High throughput formulation and in vivo biodistribution. <i>Materials Science and Engineering C</i> , 2017 , 71, 584-593	8.3	46
58	Limitations with solvent exchange methods for synthesis of colloidal fullerenes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 514, 21-31	5.1	11
57	Surface Adsorbed Antibody Characterization Using ToF-SIMS with Principal Component Analysis and Artificial Neural Networks. <i>Langmuir</i> , 2016 , 32, 8717-28	4	19
56	A RAFT copolymerization of NIPAM and HPMA and evaluation of thermo-responsive properties of poly(NIPAM-co-HPMA). <i>RSC Advances</i> , 2016 , 6, 89925-89933	3.7	14
55	Investigation of the growth mechanisms of diglyme plasma polymers on amyloid fibril networks. <i>Applied Surface Science</i> , 2016 , 361, 162-168	6.7	2
54	Probing the Interfacial Structure of Bilayer Plasma Polymer Films via Neutron Reflectometry. <i>Plasma Processes and Polymers</i> , 2016 , 13, 534-543	3.4	
53	Metal-Organic-Framework-Coated Optical Fibers as Light-Triggered Drug Delivery Vehicles. <i>Advanced Functional Materials</i> , 2016 , 26, 3244-3249	15.6	72
52	Chromium functionalized diglyme plasma polymer coating enhances enzyme-linked immunosorbent assay performance. <i>Biointerphases</i> , 2016 , 11, 041004	1.8	9

51	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. <i>Optics Letters</i> , 2016 , 41, 1696-9	3	24
50	Nanomicelles based on a boronate ester-linked diblock copolymer as the carrier of doxorubicin with enhanced cellular uptake. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 141, 318-326	6	12
49	High-Throughput Screening of Saturated Fatty Acid Influence on Nanostructure of Lyotropic Liquid Crystalline Lipid Nanoparticles. <i>Langmuir</i> , 2016 , 32, 4509-20	4	42
48	High-Throughput Production of Chromium(III) Complexes for Antibody Immobilization. <i>Analytical Chemistry</i> , 2016 , 88, 10102-10110	7.8	14
47	ToF-SIMS and Principal Component Analysis Investigation of Denatured, Surface-Adsorbed Antibodies. <i>Langmuir</i> , 2016 , 32, 10824-10834	4	18
46	A chemiluminescent sandwich ELISA enhancement method using a chromium (III) coordination complex. <i>Journal of Immunological Methods</i> , 2016 , 438, 59-66	2.5	14
45	Nanostructure and cytotoxicity of self-assembled monoolein α apric acid lyotropic liquid crystalline nanoparticles. <i>RSC Advances</i> , 2015 , 5, 26785-26795	3.7	74
44	Lipid-PEG conjugates sterically stabilize and reduce the toxicity of phytantriol-based lyotropic liquid crystalline nanoparticles. <i>Langmuir</i> , 2015 , 31, 10871-80	4	67
43	Epidermal growth factor receptor-targeted lipid nanoparticles retain self-assembled nanostructures and provide high specificity. <i>Nanoscale</i> , 2015 , 7, 2905-13	7.7	56
42	Protic ionic liquids (PILs) nanostructure and physicochemical properties: development of high-throughput methodology for PIL creation and property screens. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2357-65	3.6	45
41	Colloidally stabilized magnetic carbon nanotubes providing MRI contrast in mouse liver tumors. <i>Biomacromolecules</i> , 2015 , 16, 790-7	6.9	15
40	An arm-first approach to cleavable mikto-arm star polymers by RAFT polymerization. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 840-5	4.8	42
39	Bicontinuous cubic phase nanoparticle lipid chemistry affects toxicity in cultured cells. <i>Toxicology Research</i> , 2014 , 3, 11-22	2.6	96
38	Nitroxide-loaded hexosomes provide MRI contrast in vivo. <i>Langmuir</i> , 2014 , 30, 8898-906	4	39
37	Nanocapsules based on mPEGylated artesunate prodrug and its cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 115, 164-9	6	14
36	Water-dispersible magnetic carbon nanotubes as T2-weighted MRI contrast agents. <i>Biomaterials</i> , 2014 , 35, 378-86	15.6	51
35	A study of the initial film growth of PEG-like plasma polymer films via XPS and NEXAFS. <i>Applied Surface Science</i> , 2014 , 288, 288-294	6.7	20
34	Mesoporous europo-gadoliniosilicate nanoparticles as bimodal medical imaging agents and a potential theranostic platform. <i>Advanced Healthcare Materials</i> , 2013 , 2, 836-45	10.1	15

33	Mesoporous gadolino-aluminosilicate nanoparticles as magnetic resonance imaging contrast agents. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1219-1222	7.3	6
32	Synthesis and Self-Assembly of a Peptide - Amphiphile as a Drug Delivery Vehicle. <i>Australian Journal of Chemistry</i> , 2013 , 66, 23	1.2	6
31	Nanotopographic surfaces with defined surface chemistries from amyloid fibril networks can control cell attachment. <i>Biomacromolecules</i> , 2013 , 14, 2305-16	6.9	50
30	Spatial Control of Zeolitic Imidazolate Framework Growth on Flexible Substrates. <i>Crystal Growth and Design</i> , 2013 , 13, 4411-4417	3.5	15
29	Metal-free and MRI visible theranostic lyotropic liquid crystal nitroxide-based nanoparticles. <i>Biomaterials</i> , 2012 , 33, 2723-33	15.6	66
28	Salt induced lamellar to bicontinuous cubic phase transitions in cationic nanoparticles. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 3551-6	3.4	62
27	Cubic mesophase nanoparticles doped with superparamagnetic iron oxide nanoparticles: a new class of MRI contrast agent. <i>RSC Advances</i> , 2012 , 2, 6655	3.7	17
26	A ToF-SIMS and XPS study of protein adsorption and cell attachment across PEG-like plasma polymer films with lateral compositional gradients. <i>Surface Science</i> , 2012 , 606, 1798-1807	1.8	16
25	The effect of RAFT-derived cationic block copolymer structure on gene silencing efficiency. <i>Biomaterials</i> , 2012 , 33, 7631-42	15.6	50
24	Glycerol monooleate-based nanocarriers for siRNA delivery in vitro. <i>Molecular Pharmaceutics</i> , 2012 , 9, 2450-7	5.6	54
23	UV Grafting of a Vinyl Monomer Onto a Methanol Plasma Polymer. <i>Plasma Processes and Polymers</i> , 2012 , 9, 884-889	3.4	3
22	One step multifunctional micropatterning of surfaces using asymmetric glow discharge plasma polymerization. <i>Chemical Communications</i> , 2012 , 48, 1907-9	5.8	17
21	Photoinitiated alkyne-azide click and radical cross-linking reactions for the patterning of PEG hydrogels. <i>Biomacromolecules</i> , 2012 , 13, 889-95	6.9	82
20	An X-ray and neutron reflectometry study of PEG-like plasma polymer films. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1008-19	4.1	16
19	Development of Cubosomes as a Cell-Free Biosensing Platform. <i>Australian Journal of Chemistry</i> , 2011 , 64, 46	1.2	20
18	PLUXter: rapid discovery of metal-organic framework structures using PCA and HCA of high throughput synchrotron powder diffraction data. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011 , 14, 28-35	1.3	12
17	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 327-334	3.8	108
16	Gadolinium-conjugated folate-poly(ethylene glycol)-polyamidoamine dendrimer-carboxyl nanoparticles as potential tumor-targeted, circulation-prolonged macromolecular magnetic resonance imaging contrast agents. II. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 3175-3184	2.9	5

15	New insights into the substrate-plasma polymer interface. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6495-502	3.4	23
14	Living spontaneous gradient copolymers of acrylic acid and styrene: one-pot synthesis of pH-responsive amphiphiles. <i>Polymer Chemistry</i> , 2010 , 1, 326-332	4.9	51
13	One-step method for generating PEG-like plasma polymer gradients: chemical characterization and analysis of protein interactions. <i>Langmuir</i> , 2010 , 26, 13987-94	4	44
12	Surface "click" chemistry on brominated plasma polymer thin films. <i>Langmuir</i> , 2010 , 26, 3388-93	4	44
11	Fabrication of asymmetric "Janus" particles via plasma polymerization. <i>Chemical Communications</i> , 2010 , 46, 5121-3	5.8	47
10	The preparation of colloidally stable, water-soluble, biocompatible, semiconductor nanocrystals with a small hydrodynamic diameter. <i>ACS Nano</i> , 2009 , 3, 1121-8	16.7	155
9	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16615-16624	3.8	25
8	Characterization of low-fouling ethylene glycol containing plasma polymer films. <i>Langmuir</i> , 2008 , 24, 3828-35	4	49
7	High-throughput optimization of surfaces for antibody immobilization using metal complexes. <i>Analytical Biochemistry</i> , 2007 , 363, 97-107	3.1	21
6	A Comparative X-Ray and Neutron Reflectometry Study of Plasma Polymer Films Containing Reactive Amines. <i>Plasma Processes and Polymers</i> , 2007 , 4, 433-444	3.4	17
5	Scanning Probe Nanolithography and Protein Patterning of Low-Fouling Plasma Polymer Multilayer Films. <i>Advanced Materials</i> , 2006 , 18, 3079-3082	24	48
4	X-ray and neutron reflectometry study of glow-discharge plasma polymer films. <i>Langmuir</i> , 2006 , 22, 4533-7	3.4	34
3	Effects of oxygen plasma treatment on the surface of bisphenol A polycarbonate: a study using SIMS, principal component analysis, ellipsometry, XPS and AFM nanoindentation. <i>Surface and Interface Analysis</i> , 2006 , 38, 1186-1197	1.5	52
2	Factors affecting the adhesion of microwave plasma deposited siloxane films on polycarbonate. <i>Thin Solid Films</i> , 2006 , 500, 34-40	2.2	30
1	The control of Staphylococcus epidermidis biofilm formation and in vivo infection rates by covalently bound furanones. <i>Biomaterials</i> , 2004 , 25, 5023-30	15.6	131