

# Benjamin Muir

## List of Publications by Citations

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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	Orientation and characterization of immobilized antibodies for improved immunoassays (Review). <i>Biointerphases</i> , <b>2017</b> , 12, 02D301	1.8	177
85	The preparation of colloidally stable, water-soluble, biocompatible, semiconductor nanocrystals with a small hydrodynamic diameter. <i>ACS Nano</i> , <b>2009</b> , 3, 1121-8	16.7	155
84	The control of <i>Staphylococcus epidermidis</i> biofilm formation and in vivo infection rates by covalently bound furanones. <i>Biomaterials</i> , <b>2004</b> , 25, 5023-30	15.6	131
83	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 327-334	3.8	108
82	Bicontinuous cubic phase nanoparticle lipid chemistry affects toxicity in cultured cells. <i>Toxicology Research</i> , <b>2014</b> , 3, 11-22	2.6	96
81	Photoinitiated alkyne-azide click and radical cross-linking reactions for the patterning of PEG hydrogels. <i>Biomacromolecules</i> , <b>2012</b> , 13, 889-95	6.9	82
80	Nanostructure and cytotoxicity of self-assembled monoolein/oleic acid lyotropic liquid crystalline nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 26785-26795	3.7	74
79	Metal-Organic-Framework-Coated Optical Fibers as Light-Triggered Drug Delivery Vehicles. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3244-3249	15.6	72
78	Lipid-PEG conjugates sterically stabilize and reduce the toxicity of phytantriol-based lyotropic liquid crystalline nanoparticles. <i>Langmuir</i> , <b>2015</b> , 31, 10871-80	4	67
77	Metal-free and MRI visible theranostic lyotropic liquid crystal nitroxide-based nanoparticles. <i>Biomaterials</i> , <b>2012</b> , 33, 2723-33	15.6	66
76	Salt induced lamellar to bicontinuous cubic phase transitions in cationic nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3551-6	3.4	62
75	Epidermal growth factor receptor-targeted lipid nanoparticles retain self-assembled nanostructures and provide high specificity. <i>Nanoscale</i> , <b>2015</b> , 7, 2905-13	7.7	56
74	Glycerol monooleate-based nanocarriers for siRNA delivery in vitro. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 2450-7	5.6	54
73	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> , <b>2006</b> , 38, 1186-1197	1.5	52
72	Water-dispersible magnetic carbon nanotubes as T2-weighted MRI contrast agents. <i>Biomaterials</i> , <b>2014</b> , 35, 378-86	15.6	51
71	Living spontaneous gradient copolymers of acrylic acid and styrene: one-pot synthesis of pH-responsive amphiphiles. <i>Polymer Chemistry</i> , <b>2010</b> , 1, 326-332	4.9	51
70	The effect of RAFT-derived cationic block copolymer structure on gene silencing efficiency. <i>Biomaterials</i> , <b>2012</b> , 33, 7631-42	15.6	50

69	Nanotopographic surfaces with defined surface chemistries from amyloid fibril networks can control cell attachment. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2305-16	6.9	50
68	Characterization of low-fouling ethylene glycol containing plasma polymer films. <i>Langmuir</i> , <b>2008</b> , 24, 3828-35	4	49
67	Scanning Probe Nanolithography and Protein Patterning of Low-Fouling Plasma Polymer Multilayer Films. <i>Advanced Materials</i> , <b>2006</b> , 18, 3079-3082	24	48
66	Fabrication of asymmetric "Janus" particles via plasma polymerization. <i>Chemical Communications</i> , <b>2010</b> , 46, 5121-3	5.8	47
65	Dual-modality NIRF-MRI cubosomes and hexosomes: High throughput formulation and in vivo biodistribution. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 584-593	8.3	46
64	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> , <b>2015</b> , 17, 2357-65	3.6	45
63	One-step method for generating PEG-like plasma polymer gradients: chemical characterization and analysis of protein interactions. <i>Langmuir</i> , <b>2010</b> , 26, 13987-94	4	44
62	Surface "click" chemistry on brominated plasma polymer thin films. <i>Langmuir</i> , <b>2010</b> , 26, 3388-93	4	44
61	An arm-first approach to cleavable mikto-arm star polymers by RAFT polymerization. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 840-5	4.8	42
60	High-Throughput Screening of Saturated Fatty Acid Influence on Nanostructure of Lyotropic Liquid Crystalline Lipid Nanoparticles. <i>Langmuir</i> , <b>2016</b> , 32, 4509-20	4	42
59	Nitroxide-loaded hexosomes provide MRI contrast in vivo. <i>Langmuir</i> , <b>2014</b> , 30, 8898-906	4	39
58	X-ray and neutron reflectometry study of glow-discharge plasma polymer films. <i>Langmuir</i> , <b>2006</b> , 22, 4533-7	3	34
57	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> , <b>2018</b> , 519, 107-118	9.3	30
56	Factors affecting the adhesion of microwave plasma deposited siloxane films on polycarbonate. <i>Thin Solid Films</i> , <b>2006</b> , 500, 34-40	2.2	30
55	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16615-16624	3.8	25
54	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. <i>Optics Letters</i> , <b>2016</b> , 41, 1696-9	3	24
53	New insights into the substrate-plasma polymer interface. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 6495-502	3.4	23
52	Surface immobilized antibody orientation determined using ToF-SIMS and multivariate analysis. <i>Acta Biomaterialia</i> , <b>2017</b> , 55, 172-182	10.8	22

51	Elucidating Surface and Bulk Phase Transformation in Fischer-Tropsch Synthesis Catalysts and Their Influences on Catalytic Performance. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7976-7983	13.1	22
50	High-throughput optimization of surfaces for antibody immobilization using metal complexes. <i>Analytical Biochemistry</i> , <b>2007</b> , 363, 97-107	3.1	21
49	A study of the initial film growth of PEG-like plasma polymer films via XPS and NEXAFS. <i>Applied Surface Science</i> , <b>2014</b> , 288, 288-294	6.7	20
48	Development of Cubosomes as a Cell-Free Biosensing Platform. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 46	1.2	20
47	Surface Adsorbed Antibody Characterization Using ToF-SIMS with Principal Component Analysis and Artificial Neural Networks. <i>Langmuir</i> , <b>2016</b> , 32, 8717-28	4	19
46	An ultrafast insulin formulation enabled by high-throughput screening of engineered polymeric excipients. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	18
45	ToF-SIMS and Principal Component Analysis Investigation of Denatured, Surface-Adsorbed Antibodies. <i>Langmuir</i> , <b>2016</b> , 32, 10824-10834	4	18
44	Optimal machine learning models for robust materials classification using ToF-SIMS data. <i>Applied Surface Science</i> , <b>2019</b> , 487, 773-783	6.7	17
43	Multivariate analysis of ToF-SIMS data using mass segmented peak lists. <i>Surface and Interface Analysis</i> , <b>2018</b> , 50, 713-728	1.5	17
42	Cubic mesophase nanoparticles doped with superparamagnetic iron oxide nanoparticles: a new class of MRI contrast agent. <i>RSC Advances</i> , <b>2012</b> , 2, 6655	3.7	17
41	One step multifunctional micropatterning of surfaces using asymmetric glow discharge plasma polymerization. <i>Chemical Communications</i> , <b>2012</b> , 48, 1907-9	5.8	17
40	A Comparative X-Ray and Neutron Reflectometry Study of Plasma Polymer Films Containing Reactive Amines. <i>Plasma Processes and Polymers</i> , <b>2007</b> , 4, 433-444	3.4	17
39	Self-Organizing Map and Relational Perspective Mapping for the Accurate Visualization of High-Dimensional Hyperspectral Data. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10450-10459	7.8	16
38	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> , <b>2012</b> , 606, 1798-1807	1.8	16
37	An X-ray and neutron reflectometry study of PEG-like plasma polymer films. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 1008-19	4.1	16
36	Effect of mass segment size on polymer ToF-SIMS multivariate analysis using a universal data matrix. <i>Applied Surface Science</i> , <b>2019</b> , 478, 465-477	6.7	15
35	Mesoporous europo-gadoliniosilicate nanoparticles as bimodal medical imaging agents and a potential theranostic platform. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 836-45	10.1	15
34	Colloidally stabilized magnetic carbon nanotubes providing MRI contrast in mouse liver tumors. <i>Biomacromolecules</i> , <b>2015</b> , 16, 790-7	6.9	15

33	Spatial Control of Zeolitic Imidazolate Framework Growth on Flexible Substrates. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4411-4417	3.5	15
32	Lipid Nanodiscs via Ordered Copolymers. <i>CheM</i> , <b>2020</b> , 6, 2782-2795	16.2	15
31	Distinguishing Chemically Similar Polyamide Materials with ToF-SIMS Using Self-Organizing Maps and a Universal Data Matrix. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12475-12484	7.8	15
30	A QCM-D and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. <i>ChemBioChem</i> , <b>2017</b> , 18, 921-930	3.8	14
29	A RAFT copolymerization of NIPAM and HPMA and evaluation of thermo-responsive properties of poly(NIPAM-co-HPMA). <i>RSC Advances</i> , <b>2016</b> , 6, 89925-89933	3.7	14
28	Nanocapsules based on mPEGylated artesunate prodrug and its cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 115, 164-9	6	14
27	High-Throughput Production of Chromium(III) Complexes for Antibody Immobilization. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10102-10110	7.8	14
26	A chemiluminescent sandwich ELISA enhancement method using a chromium (III) coordination complex. <i>Journal of Immunological Methods</i> , <b>2016</b> , 438, 59-66	2.5	14
25	Visualizing ToF-SIMS Hyperspectral Imaging Data Using Color-Tagged Toroidal Self-Organizing Maps. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13855-13865	7.8	12
24	ToF-SIMS and Machine Learning for Single-Pixel Molecular Discrimination of an Acrylate Polymer Microarray. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6587-6597	7.8	12
23	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> , <b>2011</b> , 14, 28-35	1.3	12
22	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> , <b>2016</b> , 141, 318-326	6	12
21	Limitations with solvent exchange methods for synthesis of colloidal fullerenes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 514, 21-31	5.1	11
20	Ab initio RAFT emulsion polymerization mediated by small cationic RAFT agents to form polymers with low molar mass dispersity. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 5044-5051	4.9	10
19	Chromium functionalized diglyme plasma polymer coating enhances enzyme-linked immunosorbent assay performance. <i>Biointerphases</i> , <b>2016</b> , 11, 041004	1.8	9
18	Treatment of skin infection using rifampicin loaded lipid nanoparticles.. <i>RSC Advances</i> , <b>2020</b> , 10, 33608-33619	3.7	8
17	Determining the limit of detection of surface bound antibody. <i>Biointerphases</i> , <b>2017</b> , 12, 031007	1.8	7
16	Mesoporous gadolino-aluminosilicate nanoparticles as magnetic resonance imaging contrast agents. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 1219-1222	7.3	6

15	Synthesis and Self-Assembly of a Peptide - Amphiphile as a Drug Delivery Vehicle. <i>Australian Journal of Chemistry</i> , <b>2013</b> , 66, 23	1.2	6
14	Information content of ToF-SIMS data: Effect of spectral binning. <i>Applied Surface Science</i> , <b>2019</b> , 493, 1067-1074	6.7	5
13	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> , <b>2011</b> , 121, 3175-3184	2.9	5
12	A polytherapy based approach to combat antimicrobial resistance using cubosomes.. <i>Nature Communications</i> , <b>2022</b> , 13, 343	17.4	4
11	Polypropylene microtitre plates modified with [Cr(OH)] for enhanced ELISA sensitivity. <i>Journal of Immunological Methods</i> , <b>2017</b> , 446, 70-73	2.5	3
10	UV Grafting of a Vinyl Monomer Onto a Methanol Plasma Polymer. <i>Plasma Processes and Polymers</i> , <b>2012</b> , 9, 884-889	3.4	3
9	Analyzing 3D hyperspectral TOF-SIMS depth profile data using self-organizing map-relational perspective mapping. <i>Biointerphases</i> , <b>2020</b> , 15, 061004	1.8	3
8	Rapid evaluation of immobilized immunoglobulins using automated mass-segmented ToF-SIMS. <i>Biointerphases</i> , <b>2019</b> , 14, 061002	1.8	3
7	Hyperosmotic Infusion and Oxidized Surfaces Are Essential for Biofilm Formation of From the Neonatal Intensive Care Unit. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 920	5.7	2
6	Investigation of the growth mechanisms of diglyme plasma polymers on amyloid fibril networks. <i>Applied Surface Science</i> , <b>2016</b> , 361, 162-168	6.7	2
5	Kinetic modelling of the reversible addition-fragmentation chain transfer polymerisation of N-isopropylacrylamide. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109193	5.2	1
4	Generation and Characterization of a Library of Novel Biologically Active Functional Surfactants (Surfmers) Using Combined High-Throughput Methods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 43290-43300	9.5	1
3	Applications of multivariate analysis and unsupervised machine learning to ToF-SIMS images of organic, bioorganic, and biological systems.. <i>Biointerphases</i> , <b>2022</b> , 17, 020802	1.8	1
2	Resonant Acoustic Mixing Method to Produce Lipid-Based Liquid-Crystal Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 10653-10664	3.8	0
1	Probing the Interfacial Structure of Bilayer Plasma Polymer Films via Neutron Reflectometry. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 534-543	3.4	