

Charles R Mace

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.

57
papers

1,816
citations

20
h-index

42
g-index

64
ext. papers

2,080
ext. citations

6.4
avg, IF

4.9
L-index

#	Paper	IF	Citations
57	Patterned Dried Blood Spot Cards for the Improved Sampling of Whole Blood.. <i>ACS Measurement Science Au</i> , 2022 , 2, 31-38		0
56	Developing a SARS-CoV-2 Antigen Test Using Engineered Affinity Proteins. <i>ChemRxiv</i> , 2021 ,	4.4	2
55	Antibody affinity as a driver of signal generation in a paper-based immunoassay for Ebola virus surveillance. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 3695-3706	4.4	0
54	Developing a SARS-CoV-2 Antigen Test Using Engineered Affinity Proteins. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38990-39002	9.5	3
53	Open software platform for automated analysis of paper-based microfluidic devices. <i>Scientific Reports</i> , 2020 , 10, 11284	4.9	3
52	Evidence for biological effects in the radiosensitization of leukemia cell lines by PEGylated gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	2
51	Opportunities in the Synthesis and Design of Radioactive Thin Films and Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4017-4028	6.4	1
50	Magnetische Levitation in Chemie, Materialwissenschaft und Biochemie. <i>Angewandte Chemie</i> , 2020 , 132, 17962-18011	3.6	3
49	Detection of cardiovascular disease associated miR-29a using paper-based microfluidics and surface enhanced Raman scattering. <i>Analyst, The</i> , 2020 , 145, 983-991	5	24
48	In situ hemolysis in a three-dimensional paper-based device for quantification of intraerythrocytic analytes. <i>Analytical Methods</i> , 2020 , 12, 281-287	3.2	5
47	Usability as a guiding principle for the design of paper-based, point-of-care devices - A review. <i>Analytica Chimica Acta</i> , 2020 , 1140, 236-249	6.6	20
46	Dual Sample Preconcentration for Simultaneous Quantification of Metal Ions Using Electrochemical and Colorimetric Assays. <i>ACS Sensors</i> , 2020 , 5, 3999-4008	9.2	10
45	High-Yielding Separation and Collection of Plasma from Whole Blood Using Passive Filtration. <i>Analytical Chemistry</i> , 2020 , 92, 16245-16252	7.8	6
44	Magnetic Levitation in Chemistry, Materials Science, and Biochemistry. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17810-17855	16.4	40
43	Determination of sample stability for whole blood parameters using formal experimental design. <i>Analytical Methods</i> , 2019 , 11, 930-935	3.2	5
42	Overreliance on Cost Reduction as a Featured Element of Sensor Design. <i>ACS Sensors</i> , 2019 , 4, 1120-1125	5.2	12
41	Scalable Methods for Device Patterning as an Outstanding Challenge in Translating Paper-Based Microfluidics from the Academic Benchtop to the Point-of-Care. <i>Journal of Analysis and Testing</i> , 2019 , 3, 50-60	3.2	7

40	Early hMSC morphology and proliferation on model polyelectrolyte multilayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 178, 276-284	6	3
39	Reduction of blood volume required to perform paper-based hematocrit assays guided by device design. <i>Analytical Methods</i> , 2019 , 11, 2057-2063	3.2	11
38	Enrichment and Recovery of Mammalian Cells from Contaminated Cultures Using Aqueous Two-Phase Systems. <i>Analytical Chemistry</i> , 2018 , 90, 2103-2110	7.8	10
37	Correlation of Cell Surface Biomarker Expression Levels with Adhesion Contact Angle Measured by Lateral Microscopy. <i>Analytical Chemistry</i> , 2018 , 90, 6572-6579	7.8	4
36	Thioether-stapled macrocyclic inhibitors of the EH domain of EHD1. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 1206-1211	3.4	3
35	Experimental and Theoretical Validation of System Variables That Control the Position of Particles at the Interface of Immiscible Liquids. <i>Langmuir</i> , 2018 , 34, 7673-7680	4	7
34	Beyond Wicking: Expanding the Role of Patterned Paper as the Foundation for an Analytical Platform. <i>Analytical Chemistry</i> , 2017 , 89, 5654-5664	7.8	52
33	Directly Photopatternable Polythiophene as Dual-Tone Photoresist. <i>Macromolecules</i> , 2017 , 50, 7258-7267	5	6
32	Reconfigurable Pipet for Customized, Cost-Effective Liquid Handling. <i>Analytical Chemistry</i> , 2017 , 89, 8656-8661	7.8	5
31	Fabrication of Three-dimensional Paper-based Microfluidic Devices for Immunoassays. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	4
30	An Open Software Platform for the Automated Design of Paper-Based Microfluidic Devices. <i>Scientific Reports</i> , 2017 , 7, 16224	4.9	12
29	Density separation of quiescent yeast using iodixanol. <i>BioTechniques</i> , 2017 , 63, 169-173	2.5	4
28	Measurement of the hematocrit using paper-based microfluidic devices. <i>Lab on A Chip</i> , 2016 , 16, 3689-94	7.2	62
27	Comparison of three indirect immunoassay formats on a common paper-based microfluidic device architecture. <i>Analytical Methods</i> , 2016 , 8, 5204-5211	3.2	12
26	Multiplexed, Patterned-Paper Immunoassay for Detection of Malaria and Dengue Fever. <i>Analytical Chemistry</i> , 2016 , 88, 6161-5	7.8	52
25	Lateral Microscope Enables the Direct Observation of Cellular Interfaces and Quantification of Changes in Cell Morphology during Adhesion. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1367-1375	5.5	6
24	Enabling the Development and Deployment of Next Generation Point-of-Care Diagnostics. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003676	4.8	41
23	Combining Step Gradients and Linear Gradients in Density. <i>Analytical Chemistry</i> , 2015 , 87, 6158-64	7.8	9

22	Enrichment of reticulocytes from whole blood using aqueous multiphase systems of polymers. <i>American Journal of Hematology</i> , 2015 , 90, 31-6	7.1	31
21	Examining the interactions of the splicing factor MBNL1 with target RNA sequences via a label-free, multiplex method. <i>Analytical Chemistry</i> , 2014 , 86, 1067-75	7.8	10
20	A device architecture for three-dimensional, patterned paper immunoassays. <i>Lab on A Chip</i> , 2014 , 14, 4653-8	7.2	57
19	Manufacturing prototypes for paper-based diagnostic devices. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 801-809	2.8	43
18	Analyzing forensic evidence based on density with magnetic levitation. <i>Journal of Forensic Sciences</i> , 2013 , 58, 40-5	1.8	46
17	Using Magnetic Levitation to Separate Mixtures of Crystal Polymorphs. <i>Angewandte Chemie</i> , 2013 , 125, 10398-10401	3.6	14
16	Aqueous multiphase systems of polymers and surfactants provide self-assembling step-gradients in density. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9094-7	16.4	93
15	Measuring binding of protein to gel-bound ligands using magnetic levitation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5637-46	16.4	53
14	Separation of nanoparticles in aqueous multiphase systems through centrifugation. <i>Nano Letters</i> , 2012 , 12, 4060-4	11.5	166
13	A unique approach to business strategy as a means to enable change in global healthcare: a case study. <i>Clinical Chemistry</i> , 2012 , 58, 1302-5	5.5	6
12	Denaturation of proteins by SDS and tetraalkylammonium dodecyl sulfates. <i>Langmuir</i> , 2011 , 27, 11560-74		25
11	Label-free, arrayed sensing of immune response to influenza antigens. <i>Talanta</i> , 2011 , 83, 1000-5	6.2	18
10	Validation of arrayed imaging reflectometry biosensor response for protein-antibody interactions: cross-correlation of theory, experiment, and complementary techniques. <i>Analytical Chemistry</i> , 2011 , 83, 3750-7	7.8	17
9	Magnetic levitation in the analysis of foods and water. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 6565-9	5.7	97
8	Paper-based ELISA. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4771-4	16.4	551
7	Investigation of non-nucleophilic additives for the reduction of morphological anomalies in protein arrays. <i>Langmuir</i> , 2008 , 24, 12754-7	4	16
6	Detection of human proteins using arrayed imaging reflectometry. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 334-7	11.8	24
5	Single-Step Synthesis of Functional Organic Receptors via a Tridirectional Minisci Reaction. <i>Synthesis</i> , 2007 , 2007, 2287-2290	2.9	3

4	Biophysical analysis of the EPEC translocated intimin receptor-binding domain. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 362, 1073-8	3.4	6
3	Rapid Label-free Protein Detection Arrays on Coated Silicon Wafers. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 951, 7		
2	Theoretical and experimental analysis of arrayed imaging reflectometry as a sensitive proteomics technique. <i>Analytical Chemistry</i> , 2006 , 78, 5578-83	7.8	38
1	A proteomic biosensor for enteropathogenic E. coli. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1659-63	11.8	56