Richard D Oleschuk

List of Publications by Year
in descending order

42 papers	1,344 citations	430874 18 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	1543 citing authors

#	Article	IF	Citations
1	Rapid Mass Spectrometric Calibration and Standard Addition Using Hydrophobic/Hydrophilic Patterned Surfaces and Discontinuous Dewetting. Journal of the American Society for Mass Spectrometry, 2022, 33, 660-670.	2.8	0
2	Discontinuously Dewetting Solvent Arrays: Droplet Formation and Poly-Synchronous Surface Extraction for Mass Spectrometry Imaging Applications. Analytical Chemistry, 2022, 94, 7219-7228.	6.5	2
3	The liquid micro junction-surface sampling probe (LMJ-SSP); a versatile ambient mass spectrometry interface. Analyst, The, 2021, 146, 6365-6378.	3.5	6
4	Fabrication and characterization of laser-heated, multiplexed electrospray emitter. Analyst, The, 2021, 146, 2834-2841.	3.5	3
5	Ice recrystallization inhibition activity varies with ice-binding protein type and does not correlate with thermal hysteresis. Cryobiology, 2021, 99, 28-39.	0.7	29
6	Portable microfluidic platform employing Youngâ€“Laplace pumping enabling flowrate controlled applications. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	5
7	Leveraging 3D printing to enhance mass spectrometry: A review. Analytica Chimica Acta, 2021, 1166, 338332.	5.4	17
8	Hydrophobic/hydrophilic patterned surfaces for directed evaporative preconcentration. Analyst, The, 2020, 145, 643-650.	3.5	6
9	Detection of Opioids on Mail/Packages Using Open Port Interface Mass Spectrometry (OPI-MS). Journal of the American Society for Mass Spectrometry, 2020, 31, 2370-2378.	2.8	10
10	Open sessile droplet viscometer with low sample consumption. Lab on A Chip, 2020, 20, 1869-1876.	6.0	5
11	Facile Actuation of Organic and Aqueous Droplets on Slippery Liquid-Infused Porous Surfaces for the Application of On-Chip Polymer Synthesis and Liquidâ€“Liquid Extraction. ACS Applied Materials & Interfaces, 2019, 11, 28327-28335.	8.0	19
12	Facile actuation of aqueous droplets on a superhydrophobic surface using magnetotactic bacteria for digital microfluidic applications. Analytica Chimica Acta, 2019, 1085, 107-116.	5.4	10
13	Organic-free, versatile sessile droplet microfluidic device for chemical separation using an aqueous two-phase system. Lab on A Chip, 2019, 19, 654-664.	6.0	20
14	Reliable identification of prostate cancer using mass spectrometry metabolomic imaging in needle core biopsies. Laboratory Investigation, 2019, 99, 1561-1571.	3.7	35
15	Light activated synthesis of the atomically precise fluorescent silver cluster Ag18(Capt)14. Nanoscale, 2019, 11, 20522-20526.	5.6	11
16	An investigation into the kinematics of magnetically driven droplets on various (super)hydrophobic surfaces and their application to an automated multi-droplet platform. Analytical and Bioanalytical Chemistry, 2019, 411, 5393-5403.	3.7	5
17	Advances in Microchip Liquid Chromatography. Analytical Chemistry, 2018, 90, 283-301.	6.5	69
18	The power of fluorescence excitationâ€“emission matrix (EEM) spectroscopy in the identification and characterization of complex mixtures of fluorescent silver clusters. RSC Advances, 2018, 8, 42080-42086.	3.6	20

#	Article	IF	Citations
19	High-capacity ice-recrystallization endpoint assay employing superhydrophobic coatings that is equivalent to the â€˜splatâ€™ assay. Cryobiology, 2018, 81, 138-144.	0.7	21
20	Carbonated water for the separation of carboxylic compounds: a chromatography approach. Green Chemistry, 2018, 20, 440-448.	9.0	7
21	CO₂-modified solvents for chromatographic separation. Green Chemistry, 2017, 19, 1757-1765.	9.0	8
22	Fabrication of Patterned Superhydrophobic/Hydrophilic Substrates by Laser Micromachining for Small Volume Deposition and Droplet-Based Fluorescence. ACS Applied Materials & Interfaces, 2017, 9, 7629-7636.	8.0	34
23	3D-Printed Paper Spray Ionization Cartridge with Integrated Desolvation Feature and Ion Optics. Analytical Chemistry, 2017, 89, 11419-11426.	6.5	25
24	Controlled, synchronized actuation of microdroplets by gravity in a superhydrophobic, 3D-printed device. Analytica Chimica Acta, 2017, 988, 50-57.	5.4	11
25	Magnetically manipulated droplet splitting on a 3D-printed device to carry out a complexometric assay. Lab on A Chip, 2017, 17, 2640-2649.	6.0	20
26	Fabrication of axicon microlenses on capillaries and microstructured fibers by wet etching. Optics Express, 2016, 24, 20346.	3.4	6
27	A Microstructured Fiber with Defined Borosilicate Regions to Produce a Radial Micronozzle Array for Nanoelectrospray Ionization. Scientific Reports, 2016, 6, 21279.	3.3	5
28	â€œParticle-Freeâ€•Magnetic Actuation of Droplets on Superhydrophobic Surfaces Using Dissolved Paramagnetic Salts. Analytical Chemistry, 2016, 88, 9486-9494.	6.5	16
29	Magnetic droplet actuation on natural (Colocasia leaf) and fluorinated silica nanoparticle superhydrophobic surfaces. Sensors and Actuators B: Chemical, 2015, 220, 5-12.	7.8	41
30	Electrowetting on superhydrophobic natural (Colocasia) and synthetic surfaces based upon fluorinated silica nanoparticles. Microelectronic Engineering, 2015, 148, 91-97.	2.4	19
31	A study of the methylene/perfluormethylene selectivity of porous polymer monolithic stationary phases exhibiting different fluorous/hydrophobic content. Journal of Chromatography A, 2014, 1329, 61-70.	3.7	13
32	Plastic LC/MS microchip with an embedded microstructured fibre having the dual role of a frit and a nanoelectrospray emitter. Microfluidics and Nanofluidics, 2014, 16, 73-81.	2.2	14
33	Digital Microfluidic Platform for Human Plasma Protein Depletion. Analytical Chemistry, 2014, 86, 8466-8472.	6.5	46
34	Characterization of microstructured fibre emitters: in pursuit of improved nano electrospray ionization performance. Analyst, The, 2012, 137, 4150.	3.5	26
35	Polymer microstructures with high aspect ratio and low polydispersity using photonic fibres as templates. Journal of Materials Chemistry, 2012, 22, 8208.	6.7	10
36	Multiple electrosprays generated from a single polycarbonate microstructured fibre. Journal of Mass Spectrometry, 2012, 47, 271-276.	1.6	12

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37	Nanoelectrospray emitters: Trends and perspective. Mass Spectrometry Reviews, 2009, 28, 918-936.	5.4	131
38	Biochemical Signal Detection in Miniaturized Fluidic Systems by Integrated Microresonator. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
39	Microchip-based capillary electrochromatography using packed beds. Electrophoresis, 2003, 24, 3018-3025.	2.4	55
40	Aging Effects on Oxidized and Amine-Modified Poly(dimethylsiloxane) Surfaces Studied with Chemical Force Titrations:â€‰ Effects on Electroosmotic Flow Rate in Microfluidic Channels. Langmuir, 2003, 19, 9792-9798.	3.5	44
41	Analytical microdevices for mass spectrometry. TrAC - Trends in Analytical Chemistry, 2000, 19, 379-388.	11.4	126
42	Trapping of Bead-Based Reagents within Microfluidic Systems:Â On-Chip Solid-Phase Extraction and Electrochromatography. Analytical Chemistry, 2000, 72, 585-590.	6.5	382