

Michelle L Kovarik

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.

28
papers

1,130
citations

13
h-index

33
g-index

33
ext. papers

1,224
ext. citations

5.2
avg, IF

4.44
L-index

#	Paper	IF	Citations
28	Micro total analysis systems for cell biology and biochemical assays. <i>Analytical Chemistry</i> , 2012 , 84, 516-408	7.8	218
27	Micro total analysis systems: fundamental advances and applications in the laboratory, clinic, and field. <i>Analytical Chemistry</i> , 2013 , 85, 451-72	7.8	168
26	Effect of conical nanopore diameter on ion current rectification. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15960-6	3.4	136
25	Nanofluidics in lab-on-a-chip devices. <i>Analytical Chemistry</i> , 2009 , 81, 7133-40	7.8	97
24	Measuring enzyme activity in single cells. <i>Trends in Biotechnology</i> , 2011 , 29, 222-30	15.1	71
23	Surface-charge induced ion depletion and sample stacking near single nanopores in microfluidic devices. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8614-6	16.4	69
22	Integrated nanopore/microchannel devices for ac electrokinetic trapping of particles. <i>Analytical Chemistry</i> , 2008 , 80, 657-64	7.8	58
21	Amperometric determination of nitric oxide derived from pulmonary artery endothelial cells immobilized in a microchip channel. <i>Analyst, The</i> , 2004 , 129, 995-1000	5	56
20	Fabrication of carbon microelectrodes with a micromolding technique and their use in microchip-based flow analyses. <i>Analyst, The</i> , 2004 , 129, 400-5	5	53
19	Attoliter-scale dispensing in nanofluidic channels. <i>Analytical Chemistry</i> , 2007 , 79, 1655-60	7.8	40
18	Integration of a carbon microelectrode with a microfabricated palladium decoupler for use in microchip capillary electrophoresis/electrochemistry. <i>Electrophoresis</i> , 2005 , 26, 202-10	3.6	40
17	Review of Student-Built Spectroscopy Instrumentation Projects. <i>Journal of Chemical Education</i> , 2020 , 97, 2185-2195	2.4	26
16	Microfluidic chemical cytometry of peptide degradation in single drug-treated acute myeloid leukemia cells. <i>Analytical Chemistry</i> , 2013 , 85, 4991-7	7.8	24
15	Microchannel-nanopore device for bacterial chemotaxis assays. <i>Analytical Chemistry</i> , 2010 , 82, 9357-64	7.8	12
14	Fabrication of three-dimensional micro- and nanoscale features with single-exposure photolithography. <i>Analytical Chemistry</i> , 2006 , 78, 5214-7	7.8	11
13	Response of single leukemic cells to peptidase inhibitor therapy across time and dose using a microfluidic device. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 164-74	3.7	10
12	Use of primary literature in the undergraduate analytical class. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3045-9	4.4	9

11	Sample transport and electrokinetic injection in a microchip device for chemical cytometry. <i>Electrophoresis</i> , 2011 , 32, 3180-7	3.6	8
10	Collaborative Learning Exercises for Teaching Protein Mass Spectrometry. <i>Journal of Chemical Education</i> , 2019 , 96, 905-911	2.4	6
9	Microfluidic single-cell analysis of oxidative stress in <i>Dictyostelium discoideum</i> . <i>Analyst, The</i> , 2018 , 143, 3643-3650	5	4
8	Suspensions of fluor-containing nanoparticles for quantifying emitting radionuclides in non-hazardous media. <i>Journal of Pharmaceutical Innovation</i> , 2006 , 1, 76-82	1.8	3
7	Interspecies comparison of peptide substrate reporter metabolism using compartment-based modeling. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1173-1183	4.4	2
6	Analytical chemistry research at primarily undergraduate institutions: training tomorrow's investigators. <i>Analytical Methods</i> , 2015 , 7, 6960-6966	3.2	2
5	Microfluidic Chemical Cytometry for Enzyme Assays of Single Cells. <i>Methods in Molecular Biology</i> , 2015 , 1346, 221-38	1.4	1
4	Supported bilayer membranes for reducing cell adhesion in microfluidic devices. <i>Analytical Methods</i> , 2021 , 13, 1535-1540	3.2	1
3	Effect of Loading Method on a Peptide Substrate Reporter in Intact Cells. <i>Analytical Chemistry</i> , 2018 , 90, 11344-11350	7.8	1
2	Active Learning Exercises Involving Building and Design. <i>ACS Symposium Series</i> , 181-204	0.4	1
1	A new resource to help instructors incorporate active learning into analytical chemistry courses.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	0