Michael Volny

List of Publications by Year
in descending order

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37	1,785	430874	330143
papers	citations	18 h-index	37 g-index

37	37	37	2670
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition of Escherichia coli Lipoprotein Diacylglyceryl Transferase Is Insensitive to Resistance Caused by Deletion of Braunâ€™s Lipoprotein. Journal of Bacteriology, 2021, 203, e0014921.	2.2	16
2	Mass spectrometry in freeze-drying: Motivations for using a bespoke PAT for laboratory and production environment. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 298-308.	4.3	12
3	Detection and Quantification of Carbohydrate-Deficient Transferrin by MALDI-Compatible Protein Chips Prepared by Ambient Ion Soft Landing. Clinical Chemistry, 2018, 64, 1319-1326.	3.2	14
4	Protein Chips Compatible with MALDI Mass Spectrometry Prepared by Ambient Ion Landing. Analytical Chemistry, 2016, 88, 8526-8534.	6.5	14
5	Lateral resolution of desorption nanoelectrospray: a nanospray tip without nebulizing gas as a source of primary charged droplets. Analyst, The, 2016, 141, 2150-2154.	3.5	7
6	Planar Functionalized Surfaces for Direct Immunoaffinity Desorption/Ionization Mass Spectrometry. Clinical Chemistry, 2016, 62, 270-278.	3.2	18
7	Age-Related Changes in the Lateral Lipid Distribution in a Human Lens Described by Mass Spectrometry Imaging. European Journal of Mass Spectrometry, 2015, 21, 297-303.	1.0	10
8	Highâ€throughput workflow for identification of phosphorylated peptides by LCâ€MALDIâ€TOF/TOFâ€MS coupled to in situ enrichment on MALDI plates functionalized by ion landing. Journal of Mass Spectrometry, 2015, 50, 802-811.	1.6	8
9	Fabry disease: renal sphingolipid distribution in the Î±-Gal A knockout mouse model by mass spectrometric and immunohistochemical imaging. Analytical and Bioanalytical Chemistry, 2015, 407, 2283-2291.	3.7	16
10	Modulating patterns of two-phase flow with electric fields. Biomicrofluidics, 2014, 8, 044106.	2.4	5
11	Nanoliter Segmented-Flow Sampling Mass Spectrometry with Online Compartmentalization. Analytical Chemistry, 2014, 86, 3647-3652.	6.5	11
12	Controlled Generation of Double Emulsions in Air. Analytical Chemistry, 2013, 85, 6190-6194.	6.5	11
13	Inâ€situ enrichment of phosphopeptides on MALDI plates modified by ambient ion landing. Journal of Mass Spectrometry, 2012, 47, 1294-1302.	1.6	21
14	Poly[N-(2-hydroxypropyl)methacrylamide]-Based Tissue-Embedding Medium Compatible with MALDI Mass Spectrometry Imaging Experiments. Analytical Chemistry, 2011, 83, 5458-5462.	6.5	48
15	Time-Dependent Oxidation during Nano-Assisted Laser Desorption Ionization Mass Spectrometry: A Useful Tool for Structure Determination or a Source of Possible Confusion?. Analytical Chemistry, 2011, 83, 5661-5665.	6.5	14
16	Scanning electron microscopic imaging of surface effects in desorption and nanoâ€desorption electrospray ionization. Journal of Mass Spectrometry, 2011, 46, 256-261.	1.6	9
17	Spatial Distribution of Glycerophospholipids in the Ocular Lens. PLoS ONE, 2011, 6, e19441.	2.5	23
18	Molecular mass spectrometry imaging in biomedical and life science research. Histochemistry and Cell Biology, 2010, 134, 423-443.	1.7	73

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19	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. Journal of Lipid Research, 2010, 51, 2295-2302.	4.2	50
20	mMass 3: A Cross-Platform Software Environment for Precise Analysis of Mass Spectrometric Data. Analytical Chemistry, 2010, 82, 4648-4651.	6.5	697
21	Laser Desorption-Ionization of Lipid Transfers: Tissue Mass Spectrometry Imaging without MALDI Matrix. Analytical Chemistry, 2010, 82, 4994-4997.	6.5	78
22	Surface analysis by imaging mass spectrometry. Collection of Czechoslovak Chemical Communications, 2009, 74, 1101-1116.	1.0	8
23	Redox transformations in desorption electrospray ionization. International Journal of Mass Spectrometry, 2009, 280, 235-240.	1.5	53
24	Reactive landing of gas-phase ions as a tool for the fabrication of metal oxide surfaces for in situ phosphopeptide enrichment. Journal of the American Society for Mass Spectrometry, 2009, 20, 915-926.	2.8	24
25	Mass Selection of Ions from Beams Using Waveform Isolation in Radiofrequency Quadrupoles. Analytical Chemistry, 2009, 81, 1833-1840.	6.5	14
26	Automated Ambient Desorptionâ˜Ionization Platform for Surface Imaging Integrated with a Commercial Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. Analytical Chemistry, 2009, 81, 8479-8487.	6.5	67
27	Matrixâ€free laser desorption/ionization of ions landed on plasmaâ€treated metal surfaces. Journal of Mass Spectrometry, 2008, 43, 1265-1273.	1.6	6
28	Surface effects and electrochemical cell capacitance in desorption electrospray ionization. Analyst, The, 2008, 133, 525.	3.5	63
29	Ion Soft Landing Using a Rectilinear Ion Trap Mass Spectrometer. Analytical Chemistry, 2008, 80, 6640-6649.	6.5	45
30	Application of Silicon Nanowires and Indium Tin Oxide Surfaces in Desorption Electrospray Ionization. European Journal of Mass Spectrometry, 2008, 14, 391-399.	1.0	15
31	Surface-Enhanced Raman Spectroscopy of Soft-Landed Polyatomic Ions and Molecules. Analytical Chemistry, 2007, 79, 4543-4551.	6.5	64
32	In Situ Enrichment of Phosphopeptides on MALDI Plates Functionalized by Reactive Landing of Zirconium(IV)â˜n-Propoxide Ions. Analytical Chemistry, 2007, 79, 5449-5456.	6.5	60
33	Enhancedin-vitro blood compatibility of 316L stainless steel surfaces by reactive landing of hyaluronan ions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 505-510.	3.4	30
34	High efficiency in soft landing of biomolecular ions on a plasma-treated metal surface: are double-digit yields possible?. Journal of Mass Spectrometry, 2006, 41, 124-126.	1.6	28
35	Preparative Soft and Reactive Landing of Gas-Phase Ions on Plasma-Treated Metal Surfaces. Analytical Chemistry, 2005, 77, 4846-4853.	6.5	66
36	Preparative Soft and Reactive Landing of Multiply Charged Protein Ions on a Plasma-Treated Metal Surface. Analytical Chemistry, 2005, 77, 4890-4896.	6.5	82

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37	Evaluation of in situ electrodeposition technique in electrothermal atomic absorption spectrometry. Analyst, The, 2003, 128, 293-300.	3.5	5