Michael Volny

List of Publications by Year
in descending order

37 papers	1,785 citations	430442 18 h-index	329751 37 g-index
37 all docs	37 docs citations	37 times ranked	2670 citing authors

#	Article	IF	Citations
1	mMass 3: A Cross-Platform Software Environment for Precise Analysis of Mass Spectrometric Data. Analytical Chemistry, 2010, 82, 4648-4651.	3.2	697
2	Preparative Soft and Reactive Landing of Multiply Charged Protein Ions on a Plasma-Treated Metal Surface. Analytical Chemistry, 2005, 77, 4890-4896.	3.2	82
3	Laser Desorption-Ionization of Lipid Transfers: Tissue Mass Spectrometry Imaging without MALDI Matrix. Analytical Chemistry, 2010, 82, 4994-4997.	3.2	78
4	Molecular mass spectrometry imaging in biomedical and life science research. Histochemistry and Cell Biology, 2010, 134, 423-443.	0.8	73
5	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.	3.2	67
6	Preparative Soft and Reactive Landing of Gas-Phase Ions on Plasma-Treated Metal Surfaces. Analytical Chemistry, 2005, 77, 4846-4853.	3.2	66
7	Surface-Enhanced Raman Spectroscopy of Soft-Landed Polyatomic Ions and Molecules. Analytical Chemistry, 2007, 79, 4543-4551.	3.2	64
8	Surface effects and electrochemical cell capacitance in desorption electrospray ionization. Analyst, The, 2008, 133, 525.	1.7	63
9	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.	3.2	60
10	Redox transformations in desorption electrospray ionization. International Journal of Mass Spectrometry, 2009, 280, 235-240.	0.7	53
11	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. Journal of Lipid Research, 2010, 51, 2295-2302.	2.0	50
12	Poly[N-(2-hydroxypropyl)methacrylamide]-Based Tissue-Embedding Medium Compatible with MALDI Mass Spectrometry Imaging Experiments. Analytical Chemistry, 2011, 83, 5458-5462.	3.2	48
13	Ion Soft Landing Using a Rectilinear Ion Trap Mass Spectrometer. Analytical Chemistry, 2008, 80, 6640-6649.	3.2	45
14	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.	1.6	30
15	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.	0.7	28
16	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.	1.2	24
17	Spatial Distribution of Glycerophospholipids in the Ocular Lens. PLoS ONE, 2011, 6, e19441.	1.1	23
18	Inâ€situ enrichment of phosphopeptides on MALDI plates modified by ambient ion landing. Journal of Mass Spectrometry, 2012, 47, 1294-1302.	0.7	21

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19	Planar Functionalized Surfaces for Direct Immunoaffinity Desorption/Ionization Mass Spectrometry. Clinical Chemistry, 2016, 62, 270-278.	1.5	18
20	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.	1.9	16
21	Inhibition of Escherichia coli Lipoprotein Diacylglyceryl Transferase Is Insensitive to Resistance Caused by Deletion of Braunâ€™s Lipoprotein. Journal of Bacteriology, 2021, 203, e0014921.	1.0	16
22	Application of Silicon Nanowires and Indium Tin Oxide Surfaces in Desorption Electrospray Ionization. European Journal of Mass Spectrometry, 2008, 14, 391-399.	0.5	15
23	Mass Selection of Ions from Beams Using Waveform Isolation in Radiofrequency Quadrupoles. Analytical Chemistry, 2009, 81, 1833-1840.	3.2	14
24	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.	3.2	14
25	Protein Chips Compatible with MALDI Mass Spectrometry Prepared by Ambient Ion Landing. Analytical Chemistry, 2016, 88, 8526-8534.	3.2	14
26	Detection and Quantification of Carbohydrate-Deficient Transferrin by MALDI-Compatible Protein Chips Prepared by Ambient Ion Soft Landing. Clinical Chemistry, 2018, 64, 1319-1326.	1.5	14
27	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.	2.0	12
28	Controlled Generation of Double Emulsions in Air. Analytical Chemistry, 2013, 85, 6190-6194.	3.2	11
29	Nanoliter Segmented-Flow Sampling Mass Spectrometry with Online Compartmentalization. Analytical Chemistry, 2014, 86, 3647-3652.	3.2	11
30	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.	0.5	10
31	Scanning electron microscopic imaging of surface effects in desorption and nanoâ€desorption electrospray ionization. Journal of Mass Spectrometry, 2011, 46, 256-261.	0.7	9
32	Surface analysis by imaging mass spectrometry. Collection of Czechoslovak Chemical Communications, 2009, 74, 1101-1116.	1.0	8
33	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.	0.7	8
34	Lateral resolution of desorption nanoelectrospray: a nanospray tip without nebulizing gas as a source of primary charged droplets. Analyst, The, 2016, 141, 2150-2154.	1.7	7
35	Matrixâ€free laser desorption/ionization of ions landed on plasmaâ€treated metal surfaces. Journal of Mass Spectrometry, 2008, 43, 1265-1273.	0.7	6
36	Evaluation of in situ electrodeposition technique in electrothermal atomic absorption spectrometry. Analyst, The, 2003, 128, 293-300.	1.7	5

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37	Modulating patterns of two-phase flow with electric fields. Biomicrofluidics, 2014, 8, 044106.	1.2	5