

# Michael Volny

## List of Publications by Year in descending order

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37  
papers

1,785  
citations

430874

18  
h-index

330143

37  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2670  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>mMass</i> 3: A Cross-Platform Software Environment for Precise Analysis of Mass Spectrometric Data. <i>Analytical Chemistry</i> , 2010, 82, 4648-4651.	6.5	697
2	Preparative Soft and Reactive Landing of Multiply Charged Protein Ions on a Plasma-Treated Metal Surface. <i>Analytical Chemistry</i> , 2005, 77, 4890-4896.	6.5	82
3	Laser Desorption-Ionization of Lipid Transfers: Tissue Mass Spectrometry Imaging without MALDI Matrix. <i>Analytical Chemistry</i> , 2010, 82, 4994-4997.	6.5	78
4	Molecular mass spectrometry imaging in biomedical and life science research. <i>Histochemistry and Cell Biology</i> , 2010, 134, 423-443.	1.7	73
5	Automated Ambient Desorption-Ionization Platform for Surface Imaging Integrated with a Commercial Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Analytical Chemistry</i> , 2009, 81, 8479-8487.	6.5	67
6	Preparative Soft and Reactive Landing of Gas-Phase Ions on Plasma-Treated Metal Surfaces. <i>Analytical Chemistry</i> , 2005, 77, 4846-4853.	6.5	66
7	Surface-Enhanced Raman Spectroscopy of Soft-Landed Polyatomic Ions and Molecules. <i>Analytical Chemistry</i> , 2007, 79, 4543-4551.	6.5	64
8	Surface effects and electrochemical cell capacitance in desorption electrospray ionization. <i>Analyst</i> , 2008, 133, 525.	3.5	63
9	In Situ Enrichment of Phosphopeptides on MALDI Plates Functionalized by Reactive Landing of Zirconium(IV)-Propoxide Ions. <i>Analytical Chemistry</i> , 2007, 79, 5449-5456.	6.5	60
10	Redox transformations in desorption electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 235-240.	1.5	53
11	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. <i>Journal of Lipid Research</i> , 2010, 51, 2295-2302.	4.2	50
12	Poly[N-(2-hydroxypropyl)methacrylamide]-Based Tissue-Embedding Medium Compatible with MALDI Mass Spectrometry Imaging Experiments. <i>Analytical Chemistry</i> , 2011, 83, 5458-5462.	6.5	48
13	Ion Soft Landing Using a Rectilinear Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2008, 80, 6640-6649.	6.5	45
14	Enhanced in-vitro blood compatibility of 316L stainless steel surfaces by reactive landing of hyaluronan ions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 505-510.	3.4	30
15	High efficiency in soft landing of biomolecular ions on a plasma-treated metal surface: are double-digit yields possible?. <i>Journal of Mass Spectrometry</i> , 2006, 41, 124-126.	1.6	28
16	Reactive landing of gas-phase ions as a tool for the fabrication of metal oxide surfaces for in situ phosphopeptide enrichment. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 915-926.	2.8	24
17	Spatial Distribution of Glycerophospholipids in the Ocular Lens. <i>PLoS ONE</i> , 2011, 6, e19441.	2.5	23
18	In situ enrichment of phosphopeptides on MALDI plates modified by ambient ion landing. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1294-1302.	1.6	21

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19	Planar Functionalized Surfaces for Direct Immunoaffinity Desorption/Ionization Mass Spectrometry. <i>Clinical Chemistry</i> , 2016, 62, 270-278.	3.2	18
20	Fabry disease: renal sphingolipid distribution in the $\beta$ -Gal A knockout mouse model by mass spectrometric and immunohistochemical imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2283-2291.	3.7	16
21	Inhibition of Escherichia coli Lipoprotein Diacylglycerol Transferase Is Insensitive to Resistance Caused by Deletion of Braun <sup>TM</sup> s Lipoprotein. <i>Journal of Bacteriology</i> , 2021, 203, e0014921.	2.2	16
22	Application of Silicon Nanowires and Indium Tin Oxide Surfaces in Desorption Electrospray Ionization. <i>European Journal of Mass Spectrometry</i> , 2008, 14, 391-399.	1.0	15
23	Mass Selection of Ions from Beams Using Waveform Isolation in Radiofrequency Quadrupoles. <i>Analytical Chemistry</i> , 2009, 81, 1833-1840.	6.5	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?. <i>Analytical Chemistry</i> , 2011, 83, 5661-5665.	6.5	14
25	Protein Chips Compatible with MALDI Mass Spectrometry Prepared by Ambient Ion Landing. <i>Analytical Chemistry</i> , 2016, 88, 8526-8534.	6.5	14
26	Detection and Quantification of Carbohydrate-Deficient Transferrin by MALDI-Compatible Protein Chips Prepared by Ambient Ion Soft Landing. <i>Clinical Chemistry</i> , 2018, 64, 1319-1326.	3.2	14
27	Mass spectrometry in freeze-drying: Motivations for using a bespoke PAT for laboratory and production environment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 298-308.	4.3	12
28	Controlled Generation of Double Emulsions in Air. <i>Analytical Chemistry</i> , 2013, 85, 6190-6194.	6.5	11
29	Nanoliter Segmented-Flow Sampling Mass Spectrometry with Online Compartmentalization. <i>Analytical Chemistry</i> , 2014, 86, 3647-3652.	6.5	11
30	Age-Related Changes in the Lateral Lipid Distribution in a Human Lens Described by Mass Spectrometry Imaging. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 297-303.	1.0	10
31	Scanning electron microscopic imaging of surface effects in desorption and nano $\epsilon$ desorption electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2011, 46, 256-261.	1.6	9
32	Surface analysis by imaging mass spectrometry. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 1101-1116.	1.0	8
33	High $\epsilon$ throughput workflow for identification of phosphorylated peptides by LC $\epsilon$ MALDI $\epsilon$ TOF/TOF $\epsilon$ MS coupled to <i>in situ</i> enrichment on MALDI plates functionalized by ion landing. <i>Journal of Mass Spectrometry</i> , 2015, 50, 802-811.	1.6	8
34	Lateral resolution of desorption nanoelectrospray: a nanospray tip without nebulizing gas as a source of primary charged droplets. <i>Analyst</i> , 2016, 141, 2150-2154.	3.5	7
35	Matrix $\epsilon$ free laser desorption/ionization of ions landed on plasma $\epsilon$ treated metal surfaces. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1265-1273.	1.6	6
36	Evaluation of in situ electrodeposition technique in electrothermal atomic absorption spectrometry. <i>Analyst</i> , 2003, 128, 293-300.	3.5	5

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37	Modulating patterns of two-phase flow with electric fields. <i>Biomicrofluidics</i> , 2014, 8, 044106.	2.4	5