

# Vladimir E Frankevich

## List of Publications by Year in descending order

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69  
papers

2,184  
citations

279798

23  
h-index

243625

44  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Polymers as Major Components of Atmospheric Organic Aerosols. <i>Science</i> , 2004, 303, 1659-1662.	12.6	947
2	Role of Electrons in Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 6063-6067.	6.5	86
3	Reduction of Cu(II) in matrix-assisted laser desorption/ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 42-50.	2.8	62
4	Identification of potential early biomarkers of preeclampsia. <i>Placenta</i> , 2018, 61, 61-71.	1.5	60
5	Clear evidence of fluorescence resonance energy transfer in gas-phase ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1481-1487.	2.8	57
6	The origin of electrons in MALDI and their use for sympathetic cooling of negative ions in FTICR. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 11-19.	1.5	51
7	Production and fragmentation of multiply charged ions in "electron-free" matrix-assisted laser desorption/ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2343-2348.	1.5	51
8	What Happens to Hydrophobic Interactions during Transfer from the Solution to the Gas Phase? The Case of Electrospray-Based Soft Ionization Methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1167-1177.	2.8	45
9	Broad-Band Fourier Transform Quadrupole Ion Trap Mass Spectrometry. <i>Analytical Chemistry</i> , 1996, 68, 3314-3320.	6.5	44
10	Time-Resolved Surface Temperature Measurement of MALDI Matrices under Pulsed UV Laser Irradiation. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2405-2410.	2.5	42
11	Direct Access to Isolated Biomolecules under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2358-2361.	13.8	34
12	Absorption of the green fluorescent protein chromophore anion in the gas phase studied by a combination of FTICR mass spectrometry with laser-induced photodissociation spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 241-245.	1.5	34
13	Letter: Characteristics of Photoelectrons Emitted in Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Experiments. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 67-69.	1.0	33
14	The Role of Nebulizer Gas Flow in Electrosonic Spray Ionization (ESSI). <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1234-1241.	2.8	32
15	Laser-Induced Fluorescence of Trapped Gas-Phase Molecular Ions Generated by Internal-Source Matrix-Assisted Laser Desorption/Ionization in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2005, 11, 475-482.	1.0	31
16	Vertical Transmission of SARS-CoV-2 in Second Trimester Associated with Severe Neonatal Pathology. <i>Viruses</i> , 2021, 13, 447.	3.3	27
17	Optical properties of protonated Rhodamine 19 isomers in solution and in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14121.	2.8	26
18	Native Biomolecules in the Gas Phase? The Case of Green Fluorescent Protein. <i>ChemPhysChem</i> , 2013, 14, 929-935.	2.1	26

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19	Endometriosis foci differentiation by rapid lipid profiling using tissue spray ionization and high resolution mass spectrometry. <i>Scientific Reports</i> , 2017, 7, 2546.	3.3	26
20	Direct Mass Spectrometry Differentiation of Ectopic and Eutopic Endometrium in Patients with Endometriosis. <i>Journal of Minimally Invasive Gynecology</i> , 2018, 25, 426-433.	0.6	26
21	Characteristics of a broad-band Fourier transform ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 1998, 177, 91-104.	1.5	25
22	Letter: Multiply Charged Ions in Matrix-Assisted Laser Desorption/Ionization Generated from Electro sprayed Sample Layers. <i>European Journal of Mass Spectrometry</i> , 2005, 11, 257-259.	1.0	24
23	Rhodamines in the gas phase: cations, neutrals, anions, and adducts with metal cations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11710.	2.8	23
24	Kinetic Energy of Free Electrons Affects MALDI Positive Ion Yield via Capture Cross-Section. <i>Journal of Physical Chemistry A</i> , 2006, 110, 926-930.	2.5	20
25	Fluorescence resonance energy transfer of gas-phase ions under ultra high vacuum and ambient conditions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8911-8920.	2.8	20
26	SERPINA1 Peptides in Urine as A Potential Marker of Preeclampsia Severity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 914.	4.1	19
27	Ion Mobility Spectrometry Coupled to Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2013, 85, 39-43.	6.5	17
28	Label-free cervicovaginal fluid proteome profiling reflects the cervix neoplastic transformation. <i>Journal of Mass Spectrometry</i> , 2019, 54, 693-703.	1.6	17
29	Dynamic ion trapping in a cylindrical open cell for fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001, 207, 57-67.	1.5	15
30	Probing the mechanisms of ambient ionization by laser-induced fluorescence spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1567-1572.	1.5	15
31	Preconcentration of organic solutes in urine by bubble bursting. <i>Metabolomics</i> , 2016, 12, 1.	3.0	13
32	A Comparison of Tissue Spray and Lipid Extract Direct Injection Electrospray Ionization Mass Spectrometry for the Differentiation of Eutopic and Ectopic Endometrial Tissues. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 323-330.	2.8	13
33	Deciphering the chemical origin of the semen-like floral scents in three angiosperm plants. <i>Phytochemistry</i> , 2018, 145, 137-145.	2.9	12
34	Investigation of urine proteome of preterm newborns with respiratory pathologies. <i>Journal of Proteomics</i> , 2016, 149, 31-37.	2.4	11
35	Flexible open-cell design for internal-source matrix-assisted laser desorption/ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 979-985.	1.5	10
36	On initial ion velocities in MALDI: A novel FT-ICR MS approach. <i>International Journal of Mass Spectrometry</i> , 2014, 372, 51-53.	1.5	10

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37	Feature selection for OPLS discriminant analysis of cancer tissue lipidomics data. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4457.	1.6	10
38	Comparative study of alterations in phospholipid profiles upon liver cancer in humans and mice. <i>Analyst</i> , The, 2020, 145, 6470-6477.	3.5	10
39	Deceleration of high-energy matrix-assisted laser desorption/ionization ions in an open cell for Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2035-2040.	1.5	9
40	MALDI-Fourier transform mass spectrometric and theoretical studies of donor-acceptor and donor-bridge-acceptor fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1036-1042.	2.8	9
41	Identification of potential endometriosis biomarkers in peritoneal fluid and blood plasma via shotgun lipidomics. <i>Clinical Mass Spectrometry</i> , 2019, 13, 21-26.	1.9	9
42	The high-resolution mass spectrometry study of the protein composition of amyloid-like urine aggregates associated with preeclampsia. <i>European Journal of Mass Spectrometry</i> , 2020, 26, 158-161.	1.0	9
43	Differential Diagnosis of Preeclampsia Based on Urine Peptidome Features Revealed by High Resolution Mass Spectrometry. <i>Diagnostics</i> , 2020, 10, 1039.	2.6	9
44	Normalization methods for reducing interbatch effect without quality control samples in liquid chromatography-mass spectrometry-based studies. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3479-3486.	3.7	9
45	Diels-Alder reactions of mass-selected ions in an ion trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 911-915.	1.5	8
46	Validation of Breast Cancer Margins by Tissue Spray Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4568.	4.1	8
47	Alterations in lipid profile upon uterine fibroids and its recurrence. <i>Scientific Reports</i> , 2021, 11, 11447.	3.3	8
48	Signal enhancement in matrix-assisted laser desorption/ionization by doping with Cu(II) chloride. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 289-291.	1.5	7
49	Peculiarities of Data Interpretation upon Direct Tissue Analysis by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 123-126.	1.0	7
50	Immunoendocrine Markers of Stress in Seminal Plasma at IVF/ICSI Failure: a Preliminary Study. <i>Reproductive Sciences</i> , 2021, 28, 144-158.	2.5	7
51	Floral volatiles identification and molecular differentiation of <i>Osmanthus fragrans</i> by neutral desorption extractive atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1861-1869.	1.5	6
52	Ion mobility spectrometry coupled to laser-induced fluorescence for probing the electronic structure and conformation of gas-phase ions. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1215-1219.	0.9	5
53	Comparison of the effectiveness of variable selection method for creating a diagnostic panel of biomarkers for mass spectrometric lipidome analysis. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4702.	1.6	5
54	miRNAs and Their Gene Targets—A Clue to Differentiate Pregnancies with Small for Gestational Age Newborns, Intrauterine Growth Restriction, and Preeclampsia. <i>Diagnostics</i> , 2021, 11, 729.	2.6	5

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55	Molecular differentiation of <i>Panax notoginseng</i> grown under different conditions by internal extractive electrospray ionization mass spectrometry and multivariate analysis. <i>Phytochemistry</i> , 2022, 194, 113030.	2.9	5
56	Fluorescence-based method for determining the number of ions trapped in a FT-ICR mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2013, 338, 11-16.	1.5	4
57	Comparison of Pyridine and Pyrazine Derivatives Distribution in Exhaled Breath and Exhaled Breath Condensate after Smoking. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 829-832.	1.0	4
58	Combination of Low-Temperature Electrosurgical Unit and Extractive Electrospray Ionization Mass Spectrometry for Molecular Profiling and Classification of Tissues. <i>Molecules</i> , 2019, 24, 2957.	3.8	4
59	Initial Velocity Distribution of MALDI/LDI Ions Measured by Internal MALDI Source Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1991-1994.	2.8	3
60	The Effect of Bisphenol A on the IVF Outcomes Depending on the Polymorphism of the Detoxification System Genes. <i>Journal of Personalized Medicine</i> , 2021, 11, 1091.	2.5	3
61	Relative quantitation of phosphatidylcholines with interfered masses of protonated and sodiated molecules by tandem and Fourier-transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 259-264.	1.0	2
62	Methodology for Urine Peptidome Analysis Based on Nano-HPLC Coupled to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2018, 1719, 311-318.	0.9	1
63	Changes in amino acid profile of cord blood plasma and amniotic fluid of mothers with COVID-19. <i>Bulletin of Russian State Medical University</i> , 2021, , .	0.2	1
64	Mass Spectrometry Research at the Laboratory for Organic Chemistry, ETH Zurich. <i>Chimia</i> , 2014, 68, 119.	0.6	0
65	Elemental composition of blood of infertile patients participating in assisted reproduction programs. <i>Bulletin of Russian State Medical University</i> , 2021, , 45-50.	0.2	0
66	Complexes of fluconazole with alanine, lysine and threonine: mass spectrometry and theoretical modeling. <i>Bulletin of Russian State Medical University</i> , 2020, , 54-59.	0.2	0
67	168â€¦Preoperative evaluation of lipid markers of malignant epithelial ovarian tumors. , 2020, , .		0
68	383â€¦Changes in the proteome of cervicovaginal fluid during HPV infection in hpv-vaccinated women. , 2020, , .		0
69	The Impact of Maternal SARS-CoV-2 Infection Next to Pre-Immunization with Gam-COVID-Vac (Sputnik V) Vaccine on the 1-Day-Neonateâ€™s Blood Plasma Small Non-Coding RNA Profile: A Pilot Study. <i>Covid</i> , 2022, 2, 837-857.	1.5	0