

# Alexey A Sysoev

## List of Publications by Year in descending order

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49  
papers

550  
citations

516710

16  
h-index

642732

23  
g-index

50  
all docs

50  
docs citations

50  
times ranked

362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tetraalkylammonium halides as chemical standards for positive electrospray ionization with ion mobility spectrometry/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3051-3055.	1.5	50
2	Can Laser-Ionisation Time-of-Flight Mass Spectrometry Be a Promising Alternative to Laser Ablation/Inductively-Coupled Plasma Mass Spectrometry and Glow Discharge Mass Spectrometry for the Elemental Analysis of Solids?. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 213-232.	1.0	48
3	Development of an ion mobility spectrometer for use in an atmospheric pressure ionization ion mobility spectrometer/mass spectrometer instrument for fast screening analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 3131-3139.	1.5	42
4	Characterization of a high resolution drift tube ion mobility spectrometer with a multi-ion source platform. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 24-29.	1.5	34
5	Adjusting mobility scales of ion mobility spectrometers using 2,6-DtBP as a reference compound. <i>Talanta</i> , 2008, 76, 1218-1223.	5.5	31
6	Analysis of New Synthetic Drugs by Ion Mobility Time-of-Flight Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2014, 20, 185-192.	1.0	28
7	Characterization of proton-bound acetate dimers in ion mobility spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1361-1366.	2.8	24
8	Development of an Atmospheric Pressure Ion Mobility Spectrometer—Mass Spectrometer with an Orthogonal Acceleration Electrostatic Sector TOF Mass Analyzer. <i>Analytical Chemistry</i> , 2013, 85, 9003-9012.	6.5	24
9	Separation of different ion structures in atmospheric pressure photoionization-ion mobility spectrometry-mass spectrometry (APPI-IMS-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1565-1572.	2.8	23
10	Sterically hindered phenols in negative ion mobility spectrometry—mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3069-3076.	1.5	21
11	Direct sampling time-of-flight mass spectrometers for technological analysis. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 261-266.	1.5	20
12	Application of the numerical model describing analyte permeation through hollow fiber membranes into vacuum for determination of permeation parameters of organic compounds in a silicone membrane. <i>International Journal of Mass Spectrometry</i> , 2001, 212, 205-217.	1.5	20
13	Interfacing an aspiration ion mobility spectrometer to a triple quadrupole mass spectrometer. <i>Review of Scientific Instruments</i> , 2007, 78, 044101.	1.3	20
14	A Mathematical Model for Kinetic Study of Analyte Permeation from Both Liquid and Gas Phases through Hollow Fiber Membranes into Vacuum. <i>Analytical Chemistry</i> , 2000, 72, 4221-4229.	6.5	18
15	Generation of thorium ions by laser ablation and inductively coupled plasma techniques for optical nuclear spectroscopy. <i>Laser Physics Letters</i> , 2013, 10, 105301.	1.4	18
16	Comparison of analytical performances of a micro-array quadrupole instrument and a conventional quadrupole mass spectrometer equipped with membrane inlets. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 753-756.	1.5	16
17	Multisectional Linear Ion Trap and Novel Loading Method for Optical Spectroscopy of Electron and Nuclear Transitions. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 1-12.	1.0	13
18	Loading of mass spectrometry ion trap with Th ions by laser ablation for nuclear frequency standard application. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 146-151.	1.0	8

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19	Expansion of a multicomponent laser plasma cloud. <i>Journal of Analytical Chemistry</i> , 2011, 66, 1307-1313.	0.9	7
20	A new approach to the ion mobility spectrometer/mass spectrometer based on the orthogonal acceleration sector time-of-flight mass analyzer. <i>Journal of Analytical Chemistry</i> , 2012, 67, 1093-1095.	0.9	7
21	Separation of isomeric amines with ion mobility spectrometry. <i>Talanta</i> , 2015, 132, 889-893.	5.5	7
22	Letter: A Simple Ion Source Set-up for Desorption/Ionization on Silicon with Ion Mobility Spectrometry and Ion Mobility Spectrometry-Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2011, 17, 593-597.	1.0	6
23	Ion optics of the LAMAS-10 laser time-of-flight mass spectrometer. <i>Journal of Analytical Chemistry</i> , 2011, 66, 1455-1463.	0.9	6
24	Mass selective laser cooling of $^{229}\text{Th}^{3+}$ in a multisectional linear Paul trap loaded with a mixture of thorium isotopes. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 136-139.	1.0	6
25	Measurements of reduced mobility of standard compounds by high resolving power ion mobility spectrometer in remote laboratories. <i>Journal of Analytical Chemistry</i> , 2011, 66, 1253-1257.	0.9	5
26	Quadrupole Paul Ion Trap in Complex for Optical Spectroscopy of Multiply Charged Thorium Ions for the Development of a Nuclear Frequency Standard. <i>Measurement Techniques</i> , 2014, 57, 777-782.	0.6	5
27	Genetic Algorithm for Voltage Optimization of Gridless Ion Mirror. <i>Physics Procedia</i> , 2015, 72, 236-240.	1.2	5
28	Novel approach to constructing laser ionization elemental time-of-flight mass spectrometer. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 96-107.	1.0	5
29	Detection and registration of ion clots in laser time-of-flight mass spectrometers. <i>Instruments and Experimental Techniques</i> , 2008, 51, 574-582.	0.5	4
30	A model of pulsed target evaporation and ion generation in laser plasma. <i>Technical Physics Letters</i> , 2009, 35, 144-146.	0.7	4
31	Engineering Education Technique based on Professional Activity Imitation. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 55, 707-709.	0.5	4
32	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
33	Ion energy distribution in a multicomponent laser plasma cloud. <i>Journal of Analytical Chemistry</i> , 2012, 67, 1031-1033.	0.9	2
34	Data Collection and Processing Instrumentation for Time-of-Flight Mass Spectrometry and Ion Mobility Time-of-Flight Mass Spectrometry. <i>Physics Procedia</i> , 2015, 72, 274-277.	1.2	2
35	The Development of Nuclear Frequency Standard with the Use of Ion Crystals Manipulation System. <i>Physics Procedia</i> , 2015, 72, 245-248.	1.2	2
36	Rapid Identification of Triphenylmethane Dyes by Ion Mobility Time-of-Flight Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 289-296.	1.0	2

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37	Influence of multiplexing conditions on artefact signal and the signal-to-noise ratio in the decoded data in Hadamard transform ion mobility spectrometry. <i>European Journal of Mass Spectrometry</i> , 2020, 26, 204-212.	1.0	2
38	Transmission of a Drift Tube Ion Mobility Spectrometer, Connected with a Mass Spectrometer. <i>Physics Procedia</i> , 2015, 72, 278-282.	1.2	1
39	The Approach to Reducing the Detection Limit for LA-ICP-MS. <i>Physics Procedia</i> , 2015, 72, 218-221.	1.2	1
40	Determination of Traces of Uranium and Thorium in Titanium and Copper Used for the Construction of the Russian Emission Detector 100 by Inductively Coupled Plasma Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 335-340.	1.0	1
41	Design of Gridless Ion Mirror for Time Focusing by Energies of Ions in Laser Ion Source. <i>Physics Procedia</i> , 2015, 72, 232-235.	1.2	1
42	The Method of Ion Mobility TOF Mass Spectrometry for Rapid Identification of Triphenylmethane Ball Point Pen Dyes. <i>Physics Procedia</i> , 2015, 72, 262-265.	1.2	1
43	Investigation by simulation of the RF carpets for the transport of ions at atmospheric pressures. <i>European Journal of Mass Spectrometry</i> , 2020, 26, 274-280.	1.0	1
44	Study of atmospheric pressure chemical ionization of phthalates in air by ion mobility spectrometry/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9145.	1.5	1
45	A hardware and software system for the laser time-of-flight mass spectrometer. <i>Instruments and Experimental Techniques</i> , 2007, 50, 795-801.	0.5	0
46	The 2nd Order Focusing by Energy for TOF Sector Field Mass Analyzer with an Orthogonal Acceleration: Theory, Modeling, Experiment. <i>Physics Procedia</i> , 2015, 72, 266-273.	1.2	0
47	The investigation of ionization conditions in the trace amounts detection of heterocyclic compounds by ion mobility spectrometry and mass spectrometry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 151, 012018.	0.6	0
48	Methods for the minimization of errors of the determination of isotope ratios in laser mass spectrometry. <i>Journal of Analytical Chemistry</i> , 2016, 71, 500-507.	0.9	0
49	Editorial. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 129-129.	1.0	0