

# Alexander A Grechnikov

## List of Publications by Year in descending order

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48  
papers

325  
citations

932766

10  
h-index

887659

17  
g-index

49  
all docs

49  
docs citations

49  
times ranked

244  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the role of defects and surface chemistry for surface-assisted laser desorption ionization from silicon. <i>Journal of Chemical Physics</i> , 2008, 128, 014711.	1.2	102
2	Gas Chromatography/Surface-Assisted Laser Desorption Ionization Mass Spectrometry of Amphetamine-like Compounds. <i>Analytical Chemistry</i> , 2009, 81, 1255-1261.	3.2	23
3	Gas-phase basicity: Parameter determining the efficiency of laser desorption/ionization from silicon surfaces. <i>Journal of Analytical Chemistry</i> , 2013, 68, 19-26.	0.4	20
4	Laser ablation and ionisation by laser plasma radiation in the atmospheric-pressure mass spectrometry of organic compounds. <i>Quantum Electronics</i> , 2013, 43, 55-59.	0.3	19
5	On the role of laser irradiation in the processes of laser desorption/ionisation from silicon surfaces. <i>Quantum Electronics</i> , 2011, 41, 835-842.	0.3	14
6	Investigation of thin ZnO layers in view of laser desorption-ionization. <i>Journal of Physics: Conference Series</i> , 2010, 223, 012038.	0.3	13
7	Surface-assisted laser desorption/ionization mass spectrometry with a rotating ball interface. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 140-146.	0.7	13
8	New approaches to the laser mass spectrometry of organic samples. <i>Physics-Uspexhi</i> , 2015, 58, 191-195.	0.8	12
9	Determination of rhenium and osmium complexes by surface-assisted laser desorption/ionization coupled to Orbitrap mass analyzer. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3019-3023.	1.9	11
10	Determination of phenylalkylamine compounds using surface-assisted desorption/ionization from amorphous silicon. <i>Journal of Analytical Chemistry</i> , 2010, 65, 1504-1510.	0.4	10
11	Composition and structure of rhenium(VI) complexes as found by EPR and laser mass spectrometry. <i>Russian Journal of Inorganic Chemistry</i> , 2013, 58, 940-944.	0.3	9
12	Laser-induced plasma on a metal surface for ionization of organic compounds at atmospheric pressure. <i>International Journal of Mass Spectrometry</i> , 2021, 461, 116498.	0.7	8
13	On the mechanism of ion desorption in the process of laser desorption/ionization from silicon surfaces. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1361-1365.	0.4	7
14	Rapid screening of pharmaceutical drugs using thermal desorption "SALDI mass spectrometry. <i>Journal of Physics: Conference Series</i> , 2012, 398, 012033.	0.3	5
15	Membrane luminescence determination of technogenic actinides and their speciation in environmental objects. <i>Geochemistry International</i> , 2016, 54, 1196-1209.	0.2	5
16	Quartz roughness affect on W <sub>3</sub> O <sub>5</sub> coated QCM. <i>Journal of Physics: Conference Series</i> , 2010, 253, 012046.	0.3	4
17	Atmospheric pressure imaging mass spectrometry of drugs with various ablating lasers. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012012.	0.3	4
18	Study of quartz crystal microbalance NO <sub>2</sub> sensor coated with sputtered indium tin oxide film. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012037.	0.3	4

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19	Analytical capabilities of surface-assisted laser desorption/ionization in the determination of low-molecular-weight volatile compounds. <i>Journal of Analytical Chemistry</i> , 2015, 70, 1047-1054.	0.4	4
20	Piezoresonance sensor for ammonia with polymaleic acid as the sensitive coating. <i>Journal of Analytical Chemistry</i> , 2000, 55, 598-604.	0.4	3
21	Piezoelectric-Resonance Determination of Gas Concentrations under Field Conditions. <i>Journal of Analytical Chemistry</i> , 2002, 57, 836-842.	0.4	3
22	The Orbitrap mass analyzer with direct ion injection interfaced to a laser desorption/ionization ion source. <i>Journal of Analytical Chemistry</i> , 2013, 68, 1165-1169.	0.4	3
23	Gadolinium(III) complexation with modified polymers according to ESR data. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 1485-1490.	0.3	3
24	Complexation of heterocyclic azo compounds with transition metal ions as found by the laser-induced desorption/ionization method. <i>Russian Chemical Bulletin</i> , 2016, 65, 2789-2794.	0.4	3
25	<title>Laser desorption of ions from microscopically rough surfaces: novel technique for ultrahigh sensitivity detection of organic and bioorganic compounds</title>. , 2004, 5506, 95.		2
26	Comparison of the laser desorption/ionization methods for detecting metal complexes. <i>Physics of Wave Phenomena</i> , 2017, 25, 243-248.	0.3	2
27	Laser mass spectrometry for biological tissue analysis and pathology identification. , 2018, , .		2
28	Organic Reagents and Double-Layer Supports in the Sequential Sorption-Spectroscopic Determination of Ti(IV), V(V), Mo(VI), and Ni(II) from One Sample. <i>Journal of Analytical Chemistry</i> , 2019, 74, 108-113.	0.4	2
29	Determination of Diethyldithiocarbamate in the Solid Phase of a Fibrous Cation Exchanger in the Cu-Form Using Diffuse Reflectance Spectroscopy. <i>Journal of Analytical Chemistry</i> , 2020, 75, 759-763.	0.4	2
30	Silicon surface assisted laser desorption ionization mass spectrometry for quantitative analysis. <i>European Journal of Mass Spectrometry</i> , 2021, 27, 84-93.	0.5	2
31	Unsupervised methods in LC-MS data treatment: Application for potential chemotaxonomic markers search. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 206, 114382.	1.4	2
32	Ionization of Organic Compounds Affected by Laser Plasma Radiation at Atmospheric Pressure. <i>Journal of Analytical Chemistry</i> , 2021, 76, 1588-1595.	0.4	2
33	Title is missing!. <i>Journal of Analytical Chemistry</i> , 2002, 57, 399-406.	0.4	1
34	Laser-induced electron transfer desorption/ionization of metal complexes on TiO <sub>2</sub> films. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012035.	0.3	1
35	Sol-gel TiO <sub>2</sub> films as NO <sub>2</sub> gas sensors. <i>Journal of Physics: Conference Series</i> , 2014, 514, 012020.	0.3	1
36	Complexation of titanium(IV) malonates with phenylfluorone and 2,7-dichlorochromotropic acid on a solid phase of PANV-AV-17. <i>Journal of Analytical Chemistry</i> , 2015, 70, 1463-1467.	0.4	1

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37	Determination of titanium(IV) and chromium(VI) with 2,7-dichlorochromotropic acid and 1,5-diphenylcarbazine on the solid phase. Journal of Analytical Chemistry, 2015, 70, 915-919.	0.4	1
38	Determination of copper in urine by diffuse reflectance spectroscopy. Journal of Analytical Chemistry, 2017, 72, 1208-1211.	0.4	1
39	Novel Technique for Ultra Sensitive Detection of Organic Compounds. , 2004, , 101-112.		1
40	Mass-sensitive TiO <sub>2</sub> -based acoustic sensor element. Journal of Physics: Conference Series, 2010, 223, 012025.	0.3	0
41	Improving Resonance Characteristics of Gas Sensors by Chemical Etching of Quartz Plates. Journal of Physics: Conference Series, 2012, 398, 012046.	0.3	0
42	NO <sub>2</sub> sensing properties of amorphous silicon films. Journal of Physics: Conference Series, 2012, 356, 012027.	0.3	0
43	Comparison of different substrates for laser-induced electron transfer desorption/ionization of metal complexes. Journal of Physics: Conference Series, 2016, 700, 012025.	0.3	0
44	Reactions of palladium(II) and rhodium(III) with pyridylazo-2-naphthol and dithizone on PANVâ€“KU-2 and PANVâ€“AV-17 fibrous materials. Journal of Analytical Chemistry, 2016, 71, 896-900.	0.4	0
45	New approaches to laser desorption/ionization of chemical compounds for geochemical studies. Geochemistry International, 2017, 55, 19-26.	0.2	0
46	Complex formation of thiocyanate ions with iron(III) on the solid phase of fibrous ion exchangers. Journal of Analytical Chemistry, 2017, 72, 542-545.	0.4	0
47	Color reactions of vanadium(V) with 8-hydroxyquinoline-5-sulfonic acid and ascorbic acid on PANVâ€“AV-17 disks. Journal of Analytical Chemistry, 2017, 72, 734-738.	0.4	0
48	Derivatization of Ions under the Conditions of Surface Assisted Laser Desorption/Ionization. Journal of Analytical Chemistry, 2019, 74, 248-254.	0.4	0