

Jacob T Shelley

List of Publications by Year in descending order

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45
papers

2,157
citations

257450

24
h-index

265206

42
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48
all docs

48
docs citations

48
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Pressure Chemical Ionization Source. 1. Ionization of Compounds in the Gas Phase. <i>Analytical Chemistry</i> , 2008, 80, 2646-2653.	6.5	277
2	Atmospheric Pressure Chemical Ionization Source. 2. Desorption ⁺ Ionization for the Direct Analysis of Solid Compounds. <i>Analytical Chemistry</i> , 2008, 80, 2654-2663.	6.5	183
3	Autonomous in Situ Analysis and Real-Time Chemical Detection Using a Backpack Miniature Mass Spectrometer: Concept, Instrumentation Development, and Performance. <i>Analytical Chemistry</i> , 2014, 86, 2900-2908.	6.5	145
4	Mechanisms of Real-Time, Proximal Sample Processing during Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 233-249.	6.5	132
5	Characterization of direct-current atmospheric-pressure discharges useful for ambient desorption/ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 837-844.	2.8	118
6	Elucidation of Reaction Mechanisms Responsible for Afterglow and Reagent-Ion Formation in the Low-Temperature Plasma Probe Ambient Ionization Source. <i>Analytical Chemistry</i> , 2011, 83, 3675-3686.	6.5	118
7	Laser Ablation Coupled to a Flowing Atmospheric Pressure Afterglow for Ambient Mass Spectral Imaging. <i>Analytical Chemistry</i> , 2008, 80, 8308-8313.	6.5	106
8	Ultrasensitive Ambient Mass Spectrometric Analysis with a Pin-to-Capillary Flowing Atmospheric-Pressure Afterglow Source. <i>Analytical Chemistry</i> , 2011, 83, 5741-5748.	6.5	106
9	Handheld Low-Temperature Plasma Probe for Portable ⁺ Point-and-Shoot ⁺ Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 6545-6552.	6.5	95
10	Petrobactin is the Primary Siderophore Synthesized by <i>Bacillus anthracis</i> Str. Sterne under Conditions of Iron Starvation. <i>BioMetals</i> , 2005, 18, 577-585.	4.1	91
11	Plasma-based ambient desorption/ionization mass spectrometry: state-of-the-art in qualitative and quantitative analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6111-6127.	3.7	86
12	Ionization matrix effects in plasma-based ambient mass spectrometry sources. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 345.	3.0	74
13	Ambient desorption/ionization mass spectrometry: evolution from rapid qualitative screening to accurate quantification tool. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4061-4076.	3.7	58
14	Spectroscopic plasma diagnostics on a low-temperature plasma probe for ambient mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1434.	3.0	57
15	Understanding the Flowing Atmospheric-Pressure Afterglow (FAPA) Ambient Ionization Source through Optical Means. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 407-417.	2.8	51
16	Tunable Ionization Modes of a Flowing Atmospheric-Pressure Afterglow (FAPA) Ambient Ionization Source. <i>Analytical Chemistry</i> , 2016, 88, 3494-3503.	6.5	39
17	Atmospheric-pressure solution-cathode glow discharge: A versatile ion source for atomic and molecular mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 950, 119-128.	5.4	38
18	Arrays of low ⁺ temperature plasma probes for ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 135-142.	1.5	35

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19	Ambient mass spectrometry: Approaching the chemical analysis of things as they are. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2153.	3.0	30
20	Detection of positive and negative ions from a flowing atmospheric pressure afterglow using a mattauch-herzog mass spectrograph equipped with a faraday-strip array detector. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 97-103.	2.8	29
21	Halo-Shaped Flowing Atmospheric Pressure Afterglow: A Heavenly Design for Simplified Sample Introduction and Improved Ionization in Ambient Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 7512-7518.	6.5	26
22	Use of an ambient ionization flowing atmospheric-pressure afterglow source for elemental analysis through hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 34-40.	3.0	25
23	Nanoparticles of metal-organic cages designed to encapsulate platinum-based anticancer agents. <i>Dalton Transactions</i> , 2018, 47, 670-674.	3.3	25
24	Visualization of mass transport and heat transfer in the FAPA ambient ionization source. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 379.	3.0	24
25	Atmospheric-pressure ionization and fragmentation of peptides by solution-cathode glow discharge. <i>Chemical Science</i> , 2016, 7, 6440-6449.	7.4	24
26	Drop-on-Demand Sample Introduction System Coupled with the Flowing Atmospheric-Pressure Afterglow for Direct Molecular Analysis of Complex Liquid Microvolume Samples. <i>Analytical Chemistry</i> , 2012, 84, 9246-9252.	6.5	23
27	Fast transient analysis and first-stage collision-induced dissociation with the flowing atmospheric-pressure afterglow ionization source to improve analyte detection and identification. <i>Analyst, The</i> , 2010, 135, 682.	3.5	22
28	Detection of counterfeit electronic components through ambient mass spectrometry and chemometrics. <i>Analyst, The</i> , 2014, 139, 4505.	3.5	20
29	Antiferromagnetically Coupled Dimeric Dodecacopper Supramolecular Architectures of Macrocyclic Ligands with a Symmetrical $\text{M}_4\text{-BO}_3$ Central Moiety. <i>Inorganic Chemistry</i> , 2015, 54, 6873-6884.	4.0	14
30	Time-resolved mass-spectral characterization of ion formation from a low-frequency, low-temperature plasma probe ambient ionization source. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 359.	3.0	13
31	Formation of Pyrylium from Aromatic Systems with a Helium:Oxygen Flowing Atmospheric Pressure Afterglow (FAPA) Plasma Source. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1013-1020.	2.8	13
32	Kinetic studies on the reaction of cob(II)alamin with hypochlorous acid: Evidence for one electron oxidation of the metal center and corrin ring destruction. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 81-87.	3.5	12
33	Pulse Radiolysis and Ultra-High-Performance Liquid Chromatography/High-Resolution Mass Spectrometry Studies on the Reactions of the Carbonate Radical with Vitamin B ₁₂ Derivatives. <i>Chemistry - A European Journal</i> , 2015, 21, 6409-6419.	3.3	10
34	Surface assisted laser desorption-ionization mass spectrometry on patterned nanoporous silica thin films. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 193-200.	4.4	9
35	Automatic Analyte-Ion Recognition and Background Removal for Ambient Mass-Spectrometric Data Based on Cross-Correlation. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1720-1732.	2.8	6
36	Cooperative Heteroligand Interaction with G-Quadruplexes Shows Evidence of Allosteric Binding. <i>Biochemistry</i> , 2020, 59, 3438-3446.	2.5	5

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37	Plasma-Based Ambient Desorption/Ionization Mass Spectrometry for the Analysis of Liquid Crystals Employed in Display Devices. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2101-2113.	2.8	4
38	Coupling Flowing Atmospheric Pressure Afterglow (FAPA) with Differential Mobility Spectrometry-Mass Spectrometry (DMS-MS) for rapid analysis of solid metal complexes. <i>International Journal of Mass Spectrometry</i> , 2019, 438, 157-165.	1.5	4
39	Optical and mass-spectral characterization of mixed-gas flowing atmospheric-pressure afterglow sources. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 176, 106043.	2.9	4
40	MODERN PLASMA-BASED DESORPTION/IONIZATION: FROM ATOMS AND MOLECULES TO CHEMICAL SYNTHESIS. <i>Mass Spectrometry Reviews</i> , 2021, 40, 609-627.	5.4	2
41	Unsupervised Reconstruction of Analyte-Specific Mass Spectra Based on Time-Domain Morphology with a Modified Cross-Correlation Approach. <i>Analytical Chemistry</i> , 2021, 93, 5009-5014.	6.5	2
42	Effects of solvent composition on ionization and fragmentation within the solution-cathode glow discharge. <i>Journal of Applied Physics</i> , 2021, 130, 043305.	2.5	2
43	Progress toward a VUV Raman spectrometer to detect pathogens. , 2021, , .		0
44	Progress toward a VUV Raman spectrometer to detect pathogens with the samples in air. , 2020, , .		0
45	Differential mobility spectrometry improves uranium isotope ratio measurements on an ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2022, 472, 116758.	1.5	0