

# Xiaoyu Zhou

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7104767/xiaoyu-zhou-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

517  
citations

13  
h-index

21  
g-index

40  
ext. papers

587  
ext. citations

5  
avg, IF

3.89  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 40 | Recent advances in on-site mass spectrometry analysis for clinical applications.. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 149, 116548   | 14.6 | 2         |
| 39 | Mass Analysis Using Collective Interaction of Ions in an Ion Trap. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5998-6002   | 7.8  | 2         |
| 38 | Tandem-in-time mass spectrometry analysis facilitated by real-time pressure adjustments. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 462, 116523   | 1.9  | 2         |
| 37 | Ion Mobility Separation Using a Dual-LIT Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2573-2579  | 7.8  | 7         |
| 36 | Statistical Algorithm Enables Rapid Computation of Space Charge Effect and Spectral Correction in a Miniature Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 429-433 | 3.5  | 4         |
| 35 | One-pot hydrothermal cross-linking preparation of poly(vinylpyrrolidone) immobilized silica stationary phase for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , <b>2020</b> , 1633, 461656           | 4.5  | 3         |
| 34 | A Gas-Phase Reaction Accelerator Using Vortex Flows. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 12049-12054   | 7.8  | 4         |
| 33 | Numerical simulation for mass spectrometry instrumentation. <i>International Journal of Mass Spectrometry</i> , <b>2020</b> , 458, 116439  | 1.9  | 1         |
| 32 | Ion-Neutral Collision Effects on Ion Trapping and Pseudopotential Depth in Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 2750-2755                                  | 3.5  | 5         |
| 31 | The efficient profiling of serum N-linked glycans by a highly porous 3D graphene composite. <i>Analyst</i> , <b>2019</b> , 144, 5261-5270  | 5    | 2         |
| 30 | Tandem Analysis by a Dual-Trap Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1391-1398  | 7.8  | 32        |
| 29 | Study of In-Trap Ion Clouds by Ion Trajectory Simulations. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 223-229  | 3.5  | 3         |
| 28 | Highly Specific Enrichment of Multi-phosphopeptides by the Diphosphorylated Fructose-Modified Dual-Metal-Centered Zirconium-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32613-32621       | 9.5  | 33        |
| 27 | Stimulated Motion Suppression (STMS): a New Approach to Break the Resolution Barrier for Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1738-1744                    | 3.5  | 3         |
| 26 | Ion transfer between ion source and mass spectrometer inlet: electro-hydrodynamic simulation and experimental validation. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30 Suppl 1, 29-33                       | 2.2  | 8         |
| 25 | Development of Visible-Wavelength MALDI Cell Mass Spectrometry for High-Efficiency Single-Cell Analysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11913-11918   | 7.8  | 13        |
| 24 | Following the Ions through a Mass Spectrometer with Atmospheric Pressure Interface: Simulation of Complete Ion Trajectories from Ion Source to Mass Analyzer. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7033-40              | 7.8  | 17        |

|    |   |     |    |
|----|---|-----|----|
| 23 | Direct Analysis of Nonvolatile Chemical Compounds on Surfaces Using a Hand-Held Mass Spectrometer with Synchronized Discharge Ionization Function. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 826-31                                 | 7.8 | 20 |
| 22 | Nonlinear Ion Harmonics in the Paul Trap with Added Octopole Field: Theoretical Characterization and New Insight into Nonlinear Resonance Effect. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 344-51 | 3.5 | 3  |
| 21 | A Theoretical Method for Characterizing Nonlinear Effects in Paul Traps with Added Octopole Field. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1338-48   | 3.5 | 8  |
| 20 | Design of portable mass spectrometers with handheld probes: aspects of the sampling and miniature pumping systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 240-7                                 | 3.5 | 57 |
| 19 | High efficiency tandem mass spectrometry analysis using dual linear ion traps. <i>Analyst, The</i> , <b>2014</b> , 139, 4779-84   | 5   | 22 |
| 18 | Flowing gas in mass spectrometer: method for characterization and impact on ion processing. <i>Analyst, The</i> , <b>2014</b> , 139, 5215-22  | 5   | 20 |
| 17 | Quantitative assessment of protein adsorption on microparticles with particle mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3876-81  | 7.8 | 12 |
| 16 | Ion sponge: a 3-dimensional array of quadrupole ion traps for trapping and mass-selectively processing ions in gas phase. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4102-9  | 7.8 | 14 |
| 15 | Nonlinear effects in Paul traps operated in the second stability region: analytical analysis and numerical verification. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1882-9                          | 3.5 | 4  |
| 14 | Development of miniature mass spectrometry systems for bioanalysis outside the conventional laboratories. <i>Bioanalysis</i> , <b>2014</b> , 6, 1497-508  | 2.1 | 23 |
| 13 | CHAPTER 16:Paper Spray. <i>New Developments in Mass Spectrometry</i> , <b>2014</b> , 389-422  | 2.3 | 3  |
| 12 | Chapter 6:Low-Temperature Plasma Probe. <i>New Developments in Mass Spectrometry</i> , <b>2014</b> , 137-163  | 2.3 |    |
| 11 | Study of nonlinear resonance effect in Paul trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 794-800  | 3.5 | 9  |
| 10 | Simulation of rarefied gas flows in atmospheric pressure interfaces for mass spectrometry systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1890-9  | 3.5 | 20 |
| 9  | Ambient aerodynamic desorption/ionization method for microparticle mass measurement. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4370-5   | 7.8 | 10 |
| 8  | The development of charge detection-quadrupole ion trap mass spectrometry driven by rectangular and triangular waves. <i>Analyst, The</i> , <b>2012</b> , 137, 1199-204   | 5   | 7  |
| 7  | High-salt-tolerance matrix for facile detection of glucose in rat brain microdialysates by MALDI mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 465-9   | 7.8 | 76 |
| 6  | Characteristics of electrical field and ion motion in surface-electrode ion traps. <i>Journal of Mass Spectrometry</i> , <b>2012</b> , 47, 286-93   | 2.2 | 4  |

|   |  |     |    |
|---|--|-----|----|
| 5 | Characterization of bioparticles using a miniature cylindrical ion trap mass spectrometer operated at rough vacuum. <i>Analyst, The</i> , <b>2011</b> , 136, 1305-9                                      | 5   | 22 |
| 4 | Direct analysis of oligosaccharides and alpha hydroxy acids in fruits using electrosonic spray ionization mass spectrometry. <i>Analyst, The</i> , <b>2011</b> , 136, 3809-14                            | 5   | 6  |
| 3 | Potential distribution and transmission characteristics in a curved quadrupole ion guide. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 386-98                        | 3.5 | 9  |
| 2 | Characterization of column packing materials in high-performance liquid chromatography by charge-detection quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5400-6 | 7.8 | 9  |
| 1 | Characteristics of stability boundary and frequency in nonlinear ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2010</b> , 21, 1588-95                    | 3.5 | 18 |