

# Keyong Hou

## List of Publications by Year in Descending Order

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

51  
papers

787  
citations

17  
h-index

25  
g-index

57  
ext. papers

867  
ext. citations

4.9  
avg, IF

3.7  
L-index

#	Paper	IF	Citations
51	Protonated acetone ion chemical ionization time-of-flight mass spectrometry for real-time measurement of atmospheric ammonia. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 114, 66-74	6.4	0
50	Vacuum ultraviolet photoionization on-line mass spectrometry: Instrumentation developments and applications. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 149, 116542	14.6	1
49	Solvent assisted thermal desorption for the on-site detection of illegal drugs by a miniature ion trap mass spectrometer. <i>Analytical Methods</i> , <b>2020</b> , 12, 264-271	3.2	5
48	Rapid and highly sensitive measurement of trimethylamine in seawater using dynamic purge-release and dopant-assisted atmospheric pressure photoionization mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1137, 56-63	6.6	5
47	Effects of SF <sub>6</sub> decomposition components and concentrations on the discharge faults and insulation defects in GIS equipment. <i>Scientific Reports</i> , <b>2020</b> , 10, 15039	4.9	2
46	Potential analytical methods for on-site oral drug test: Recent developments and applications. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 120, 115649	14.6	7
45	Single photon ionization time-of-flight mass spectrometry with a windowless RF-discharge lamp for high temporal resolution monitoring of the initial stage of methanol-to-olefins reaction. <i>Analyst, The</i> , <b>2019</b> , 144, 1104-1109	5	7
44	Real-time monitoring traces of SF <sub>6</sub> in near-source ambient air by ion mobility spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2019</b> , 99, 868-877	1.8	1
43	Rapid On-Site Detection of Illegal Drugs in Complex Matrix by Thermal Desorption Acetone-Assisted Photoionization Miniature Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3845-3851	7.8	27
42	Rapid Screening of Trace Volatile and Nonvolatile Illegal Drugs by Miniature Ion Trap Mass Spectrometry: Synchronized Flash-Thermal-Desorption Purging and Ion Injection. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10212-10220	7.8	15
41	An in-source helical membrane inlet single photon ionization time-of-flight mass spectrometer for automatic monitoring of trace VOCs in water. <i>Talanta</i> , <b>2019</b> , 192, 46-51	6.2	6
40	High-pressure photon ionization time-of-flight mass spectrometry combined with dynamic purge-injection for rapid analysis of volatile metabolites in urine. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1008, 74-81	6.6	12
39	Radiofrequency field enhanced chemical ionization with vacuum ultraviolet lamp for miniature time-of-flight mass spectrometer. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 707-710	8.1	5
38	Direct Detection of Small n-Alkanes at Sub-ppbv Level by Photoelectron-Induced O Cation Chemical Ionization Mass Spectrometry at kPa Pressure. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5398-5404	7.8	11
37	Thermal Desorption Low Temperature Plasma Ionization Mass Spectrometry for Rapid and Sensitive Detection of Pesticides in Broomcorn. <i>Chinese Journal of Analytical Chemistry</i> , <b>2017</b> , 45, 175-182 <sup>16</sup>	1.6	4
36	Long-term sub second-response monitoring of gaseous ammonia in ambient air by positive ion mobility spectrometry. <i>Talanta</i> , <b>2017</b> , 175, 522-527	6.2	6
35	Rapid Identification and Quantification of Linear Olefin Isomers by Online Ozonolysis-Single Photon Ionization Time-of-Flight Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 144-52	3.5	9

34	High-Pressure Photon Ionization Source for TOFMS and Its Application for Online Breath Analysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9047-55	7.8	37
33	Development of a suitcase time-of-flight mass spectrometer for in situ fault diagnosis of SF <sub>6</sub> -insulated switchgear by detection of decomposition products. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30 Suppl 1, 38-43	2.2	4
32	Photoionization-Generated Dibromomethane Cation Chemical Ionization Source for Time-of-Flight Mass Spectrometry and Its Application on Sensitive Detection of Volatile Sulfur Compounds. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5028-32	7.8	27
31	Ellipticity-dependent of multiple ionisation methyl iodide cluster using 532 nm nanosecond laser. <i>Molecular Physics</i> , <b>2016</b> , 114, 855-861	1.7	
30	Dependence of multiply charged ions on the polarization state in nanosecond laser-benzene cluster interaction. <i>Chemical Physics Letters</i> , <b>2016</b> , 652, 239-242	2.5	2
29	Online monitoring of trace chlorinated benzenes in flue gas of municipal solid waste incinerator by windowless VUV lamp single photon ionization TOFMS coupled with automatic enrichment system. <i>Talanta</i> , <b>2016</b> , 161, 693-699	6.2	11
28	Dopant-assisted reactive low temperature plasma probe for sensitive and specific detection of explosives. <i>Analyst, The</i> , <b>2015</b> , 140, 6025-30	5	9
27	Development of a Portable Single Photon Ionization-Photoelectron Ionization Time-of-Flight Mass Spectrometer. <i>International Journal of Analytical Chemistry</i> , <b>2015</b> , 2015, 581696	1.4	7
26	Realization of in-source collision-induced dissociation in single-photon ionization time-of-flight mass spectrometry and its application for differentiation of isobaric compounds. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2427-33	7.8	18
25	Water-assisted low temperature plasma ionization source for sensitive detection of explosives. <i>RSC Advances</i> , <b>2014</b> , 4, 14791-14794	3.7	10
24	Fast Switching of CO <sub>3</sub> <sup>-</sup> (H <sub>2</sub> O) <sub>n</sub> and O <sub>2</sub> <sup>-</sup> (H <sub>2</sub> O) <sub>n</sub> reactant ions in dopant-assisted negative photoionization ion mobility spectrometry for explosives detection. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2687-93	7.8	31
23	Ambient temperature nanoelectrospray ion mobility detector for high performance liquid chromatography in determining amines. <i>Journal of Chromatography A</i> , <b>2014</b> , 1358, 192-8	4.5	6
22	Quasi-trapping chemical ionization source based on a commercial VUV lamp for time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1332-6	7.8	15
21	Long-term real-time monitoring catalytic synthesis of ammonia in a microreactor by VUV-lamp-based charge-transfer ionization time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7681-7	7.8	19
20	Non-contact halogen lamp heating assisted LTP ionization miniature rectilinear ion trap: a platform for rapid, on-site explosives analysis. <i>Analyst, The</i> , <b>2013</b> , 138, 5068-73	5	31
19	An in-source stretched membrane inlet for on-line analysis of VOCs in water with single photon ionization TOFMS. <i>Analyst, The</i> , <b>2013</b> , 138, 5826-31	5	13
18	Dopant-assisted negative photoionization ion mobility spectrometry for sensitive detection of explosives. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 319-26	7.8	65
17	Sensitive detection of black powder by a stand-alone ion mobility spectrometer with an embedded titration region. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4849-52	7.8	35

16	Coupling of stir bar sorptive extraction with single photon ionization mass spectrometry for determination of volatile organic compounds in water. <i>Analyst, The</i> , <b>2012</b> , 137, 513-8	5	10
15	In Situ Explosive Detection Using a Miniature Plasma Ion Source and a Portable Mass Spectrometer. <i>Analytical Letters</i> , <b>2012</b> , 45, 1440-1446	2.2	39
14	Multiple ionization of CH <sub>3</sub> I clusters by nanosecond laser: Electron energy distribution and formation mechanism of multiply charged ions. <i>Chemical Physics Letters</i> , <b>2012</b> , 543, 55-60	2.5	14
13	Characterization and Applications of Combined Single Photon Ionization and Photoelectron Ionization Source. <i>Chinese Journal of Analytical Chemistry</i> , <b>2012</b> , 39, 1465-1469	1.6	1
12	Sampling wand for an ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1857-61	7.8	26
11	Single photon ionization and chemical ionization combined ion source based on a vacuum ultraviolet lamp for orthogonal acceleration time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5309-16	7.8	60
10	Vacuum ultraviolet lamp based magnetic field enhanced photoelectron ionization and single photon ionization source for online time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8992-8	7.8	22
9	Note: Design and construction of a simple and reliable printed circuit board-substrate Bradbury-Nielsen gate for ion mobility spectrometry. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 086103	1.7	10
8	Bipolar ionization source for ion mobility spectrometry based on vacuum ultraviolet radiation induced photoemission and photoionization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4151-7	7.8	23
7	A combined single photon ionization and photoelectron ionization source for orthogonal acceleration time-of-flight mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2010</b> , 295, 60-64	1.9	27
6	Development and Application of A Membrane Inlet-Single Photon Ionization-Mass Spectrometer for On line Analysis Volatile Organic Compounds in Water. <i>Chinese Journal of Analytical Chemistry</i> , <b>2010</b> , 38, 760-764	1.6	3
5	Cluster-assisted generation of multiply charged ions in nanosecond laser ionization of seeded furan beam at 532 and 1064 nm. <i>Molecular Physics</i> , <b>2008</b> , 106, 1389-1395	1.7	8
4	A new membrane inlet interface of a vacuum ultraviolet lamp ionization miniature mass spectrometer for on-line rapid measurement of volatile organic compounds in air. <i>Rapid Communications in Mass Spectrometry</i> , <b>2007</b> , 21, 3554-60	2.2	28
3	Analytical solutions of the ideal model for gradient liquid chromatography. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7828-40	7.8	23
2	Cluster-assisted multiple ionization of methyl iodide by a nanosecond laser: Influence of laser intensity on the kinetic energy and peak profile of multicharged ions. <i>Chemical Physics</i> , <b>2006</b> , 322, 360-365 <sup>2,3</sup>		11
1	Cluster assistant multiply ionization of benzene by nanosecond laser: wavelength dependence of the production of highly charged carbon ions. <i>Chemical Physics Letters</i> , <b>2005</b> , 403, 218-222	2.5	16