Keyong Hou

List of Publications by Year
in descending order

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55 papers	1,019 citations	430754 18 h-index	477173 29 g-index
57 all docs	57 docs citations	57 times ranked	635 citing authors

#	Article	IF	Citations
1	Dopant-Assisted Negative Photoionization Ion Mobility Spectrometry for Sensitive Detection of Explosives. Analytical Chemistry, 2013, 85, 319-326.	3.2	79
2	Single Photon Ionization and Chemical Ionization Combined Ion Source Based on a Vacuum Ultraviolet Lamp for Orthogonal Acceleration Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 5309-5316.	3.2	73
3	High-Pressure Photon Ionization Source for TOFMS and Its Application for Online Breath Analysis. Analytical Chemistry, 2016, 88, 9047-9055.	3.2	54
4	Rapid On-Site Detection of Illegal Drugs in Complex Matrix by Thermal Desorption Acetone-Assisted Photoionization Miniature Ion Trap Mass Spectrometer. Analytical Chemistry, 2019, 91, 3845-3851.	3.2	46
5	In Situ Explosive Detection Using a Miniature Plasma Ion Source and a Portable Mass Spectrometer. Analytical Letters, 2012, 45, 1440-1446.	1.0	40
6	Fast Switching of CO<sub>3</sup>â€“(H₂O)_n and O<sub>2</sup>â€“(H₂O)_n Reactant Ions in Dopant-Assisted Negative Photoionization Ion Mobility Spectrometry for Explosives Detection. Analytical Chemistry, 2014, 86, 2687-2693.	3.2	37
7	Sensitive Detection of Black Powder by a Stand-Alone Ion Mobility Spectrometer with an Embedded Titration Region. Analytical Chemistry, 2013, 85, 4849-4852.	3.2	36
8	Photoionization-Generated Dibromomethane Cation Chemical Ionization Source for Time-of-Flight Mass Spectrometry and Its Application on Sensitive Detection of Volatile Sulfur Compounds. Analytical Chemistry, 2016, 88, 5028-5032.	3.2	36
9	A new membrane inlet interface of a vacuum ultraviolet lamp ionization miniature mass spectrometer for onâ€line rapid measurement of volatile organic compounds in air. Rapid Communications in Mass Spectrometry, 2007, 21, 3554-3560.	0.7	35
10	Non-contact halogen lamp heating assisted LTP ionization miniature rectilinear ion trap: a platform for rapid, on-site explosives analysis. Analyst, The, 2013, 138, 5068.	1.7	34
11	Rapid Screening of Trace Volatile and Nonvolatile Illegal Drugs by Miniature Ion Trap Mass Spectrometry: Synchronized Flash-Thermal-Desorption Purging and Ion Injection. Analytical Chemistry, 2019, 91, 10212-10220.	3.2	32
12	Vacuum Ultraviolet Lamp Based Magnetic Field Enhanced Photoelectron Ionization and Single Photon Ionization Source for Online Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 8992-8998.	3.2	30
13	A combined single photon ionization and photoelectron ionization source for orthogonal acceleration time-of-flight mass spectrometer. International Journal of Mass Spectrometry, 2010, 295, 60-64.	0.7	29
14	Sampling Wand for an Ion Trap Mass Spectrometer. Analytical Chemistry, 2011, 83, 1857-1861.	3.2	27
15	Bipolar Ionization Source for Ion Mobility Spectrometry Based on Vacuum Ultraviolet Radiation Induced Photoemission and Photoionization. Analytical Chemistry, 2010, 82, 4151-4157.	3.2	26
16	Analytical Solutions of the Ideal Model for Gradient Liquid Chromatography. Analytical Chemistry, 2006, 78, 7828-7840.	3.2	23
17	Long-Term Real-Time Monitoring Catalytic Synthesis of Ammonia in a Microreactor by VUV-Lamp-Based Charge-Transfer Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2014, 86, 7681-7687.	3.2	23
18	Realization of In-Source Collision-Induced Dissociation in Single-Photon Ionization Time-of-Flight Mass Spectrometry and Its Application for Differentiation of Isobaric Compounds. Analytical Chemistry, 2015, 87, 2427-2433.	3.2	20

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19	Vacuum ultraviolet photoionization on-line mass spectrometry: Instrumentation developments and applications. TrAC - Trends in Analytical Chemistry, 2022, 149, 116542.	5.8	20
20	Quasi-Trapping Chemical Ionization Source Based on a Commercial VUV Lamp for Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2014, 86, 1332-1336.	3.2	18
21	High-pressure photon ionization time-of-flight mass spectrometry combined with dynamic purge-injection for rapid analysis of volatile metabolites in urine. Analytica Chimica Acta, 2018, 1008, 74-81.	2.6	17
22	Cluster assistant multiply ionization of benzene by nanosecond laser: wavelength dependence of the production of highly charged carbon ions. Chemical Physics Letters, 2005, 403, 218-222.	1.2	16
23	Rapid and highly sensitive measurement of trimethylamine in seawater using dynamic purge-release and dopant-assisted atmospheric pressure photoionization mass spectrometry. Analytica Chimica Acta, 2020, 1137, 56-63.	2.6	16
24	Direct Detection of Small n-Alkanes at Sub-ppbv Level by Photoelectron-Induced O₂⁺ Cation Chemical Ionization Mass Spectrometry at kPa Pressure. Analytical Chemistry, 2018, 90, 5398-5404.	3.2	15
25	Multiple ionization of CH3I clusters by nanosecond laser: Electron energy distribution and formation mechanism of multiply charged ions. Chemical Physics Letters, 2012, 543, 55-60.	1.2	14
26	An in-source stretched membrane inlet for on-line analysis of VOCs in water with single photon ionization TOFMS. Analyst, The, 2013, 138, 5826.	1.7	13
27	Water-assisted low temperature plasma ionization source for sensitive detection of explosives. RSC Advances, 2014, 4, 14791-14794.	1.7	12
28	Effects of SF6 decomposition components and concentrations on the discharge faults and insulation defects in GIS equipment. Scientific Reports, 2020, 10, 15039.	1.6	12
29	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. Chemical Physics, 2006, 322, 360-365.	0.9	11
30	Note: Design and construction of a simple and reliable printed circuit board-substrate Bradbury-Nielsen gate for ion mobility spectrometry. Review of Scientific Instruments, 2011, 82, 086103.	0.6	11
31	Development of a Portable Single Photon Ionization-Photoelectron Ionization Time-of-Flight Mass Spectrometer. International Journal of Analytical Chemistry, 2015, 2015, 1-7.	0.4	11
32	Dopant-assisted reactive low temperature plasma probe for sensitive and specific detection of explosives. Analyst, The, 2015, 140, 6025-6030.	1.7	11
33	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. Talanta, 2016, 161, 693-699.	2.9	11
34	Rapid Identification and Quantification of Linear Olefin Isomers by Online Ozonolysis-Single Photon Ionization Time-of-Flight Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 144-152.	1.2	11
35	An in-source helical membrane inlet single photon ionization time-of-flight mass spectrometer for automatic monitoring of trace VOCs in water. Talanta, 2019, 192, 46-51.	2.9	11
36	Coupling of stir bar sorptive extraction with single photon ionization mass spectrometry for determination of volatile organic compounds in water. Analyst, The, 2012, 137, 513-518.	1.7	10

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37	Potential analytical methods for on-site oral drug test: Recent developments and applications. TrAC - Trends in Analytical Chemistry, 2019, 120, 115649.	5.8	10
38	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. Analyst, The, 2019, 144, 1104-1109.	1.7	10
39	Cluster-assisted generation of multiply charged ions in nanosecond laser ionization of seeded furan beam at 532 and 1064 nm. Molecular Physics, 2008, 106, 1389-1395.	0.8	9
40	Development of a suitcase timeâ€ofâ€flight mass spectrometer for in situ fault diagnosis of SF₆â€insulated switchgear by detection of decomposition products. Rapid Communications in Mass Spectrometry, 2016, 30, 38-43.	0.7	9
41	Long-term sub second-response monitoring of gaseous ammonia in ambient air by positive inhaling ion mobility spectrometry. Talanta, 2017, 175, 522-527.	2.9	9
42	Solvent assisted thermal desorption for the on-site detection of illegal drugs by a miniature ion trap mass spectrometer. Analytical Methods, 2020, 12, 264-271.	1.3	8
43	Ambient temperature nanoelectrospray ion mobility detector for high performance liquid chromatography in determining amines. Journal of Chromatography A, 2014, 1358, 192-198.	1.8	7
44	Radiofrequency field enhanced chemical ionization with vacuum ultraviolet lamp for miniature time-of-flight mass spectrometer. Chinese Chemical Letters, 2018, 29, 707-710.	4.8	7
45	Protonated acetone ion chemical ionization time-of-flight mass spectrometry for real-time measurement of atmospheric ammonia. Journal of Environmental Sciences, 2022, 114, 66-74.	3.2	7
46	Thermal Desorption Low Temperature Plasma Ionization Mass Spectrometry for Rapid and Sensitive Detection of Pesticides in Broomcorn. Chinese Journal of Analytical Chemistry, 2017, 45, 175-182.	0.9	5
47	Point-of-care detection of sevoflurane anesthetics in exhaled breath using a miniature TOFMS for diagnosis of postoperative agitation symptoms in children. Analyst, The, 2022, 147, 2484-2493.	1.7	5
48	Real-time monitoring traces of SF₆ in near-source ambient air by ion mobility spectrometry. International Journal of Environmental Analytical Chemistry, 2019, 99, 868-877.	1.8	3
49	Development and Application of A Membrane Inlet-Single Photon Ionization-Mass Spectrometer for On line Analysis Volatile Organic Compounds in Water. Chinese Journal of Analytical Chemistry, 2010, 38, 760-764.	0.9	3
50	Dependence of multiply charged ions on the polarization state in nanosecond laser-benzene cluster interaction. Chemical Physics Letters, 2016, 652, 239-242.	1.2	2
51	Single Photon Ionization/Photoelectron Ionization-Membrane Introduction Mass Spectrometry for On-line Analysis Ethers Gasoline Additive in Water. Chinese Journal of Analytical Chemistry, 2013, 41, 42.	0.9	1
52	Characterization and Applications of Combined Single Photon Ionization and Photoelectron Ionization Source. Chinese Journal of Analytical Chemistry, 2012, 39, 1465-1469.	0.9	1
53	Ellipticity-dependent of multiple ionisation methyl iodide cluster using 532 nm nanosecond laser. Molecular Physics, 2016, 114, 855-861.	0.8	0
54	Cluster- assistant Multiply Ionization of Acetonitrile by Nanosecond Laser. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2005, 21, 1113-1116.	2.2	0

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55	On-line Analysis of Flavor Compounds in Toothpastes by Single Photon Ionization Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2013, 40, 1883-1889.	0.9	0