

Haiyang Li

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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.

91
papers

1,387
citations

19
h-index

33
g-index

96
ext. papers

1,648
ext. citations

6.1
avg, IF

4.45
L-index

#	Paper	IF	Citations
91	Room-Temperature Methane Conversion by Graphene-Confined Single Iron Atoms. <i>Chem</i> , 2018 , 4, 1902-1910	10.10	227
90	Photoprompted Hot Electrons from Bulk Cross-Linked Graphene Materials and Their Efficient Catalysis for Atmospheric Ammonia Synthesis. <i>ACS Nano</i> , 2016 , 10, 10507-10515	16.7	101
89	Dopant-assisted negative photoionization ion mobility spectrometry for sensitive detection of explosives. <i>Analytical Chemistry</i> , 2013 , 85, 319-26	7.8	65
88	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> , 2011 , 83, 5309-16	7.8	60
87	On-site rapid detection of trace non-volatile inorganic explosives by stand-alone ion mobility spectrometry via acid-enhanced evaporization. <i>Scientific Reports</i> , 2014 , 4, 6631	4.9	43
86	High-Pressure Photon Ionization Source for TOFMS and Its Application for Online Breath Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 9047-55	7.8	37
85	Sensitive detection of black powder by a stand-alone ion mobility spectrometer with an embedded titration region. <i>Analytical Chemistry</i> , 2013 , 85, 4849-52	7.8	35
84	Dopant-Assisted Positive Photoionization Ion Mobility Spectrometry Coupled with Time-Resolved Thermal Desorption for On-Site Detection of Triacetone Triperoxide and Hexamethylene Trioxide Diamine in Complex Matrices. <i>Analytical Chemistry</i> , 2016 , 88, 4391-9	7.8	35
83	Fast Switching of CO ₃ ⁽⁻⁾ (H ₂ O) _n and O ₂ ⁽⁻⁾ (H ₂ O) _n reactant ions in dopant-assisted negative photoionization ion mobility spectrometry for explosives detection. <i>Analytical Chemistry</i> , 2014 , 86, 2687-93	7.8	31
82	Non-contact halogen lamp heating assisted LTP ionization miniature rectilinear ion trap: a platform for rapid, on-site explosives analysis. <i>Analyst, The</i> , 2013 , 138, 5068-73	5	31
81	Resolution enhancement of ion mobility spectrometry by improving the three-zone properties of the Bradbury-Nielsen gate. <i>Analytical Chemistry</i> , 2012 , 84, 1725-31	7.8	30
80	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> , 2019 , 91, 3845-3851	7.8	27
79	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> , 2016 , 88, 5028-32	7.8	27
78	Detection of nitrobenzene compounds in surface water by ion mobility spectrometry coupled with molecularly imprinted polymers. <i>Journal of Hazardous Materials</i> , 2014 , 280, 588-94	12.8	26
77	On-line measurement of propofol using membrane inlet ion mobility spectrometer. <i>Talanta</i> , 2012 , 98, 241-6	6.2	25
76	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> , 2011 , 83, 8992-8	7.8	22
75	Bradbury-Nielsen-gate-grid structure for further enhancing the resolution of ion mobility spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 5700-7	7.8	21

74	Rapid volatiles fingerprinting by dopant-assisted positive photoionization ion mobility spectrometry for discrimination and characterization of Green Tea aromas. <i>Talanta</i> , 2019 , 191, 39-45	6.2	20
73	Rapid screening of abused drugs by direct analysis in real time (DART) coupled to time-of-flight mass spectrometry (TOF-MS) combined with ion mobility spectrometry (IMS). <i>Forensic Science International</i> , 2017 , 279, 268-280	2.6	20
72	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> , 2014 , 86, 7681-7	7.8	19
71	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> , 2015 , 87, 2427-33	7.8	18
70	Calculation of the multimode Franck-Condon factors based on the coherent state method. <i>Molecular Physics</i> , 2005 , 103, 3337-3342	1.7	17
69	Miniaturized Ion Mobility Spectrometer with a Dual-Compression Tristate Ion Shutter for On-Site Rapid Screening of Fentanyl Drug Mixtures. <i>Analytical Chemistry</i> , 2019 , 91, 9138-9146	7.8	16
68	Field Switching Combined with Bradbury-Nielsen Gate for Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 7925-30	7.8	16
67	Interaction of the important species HNO and HFSO ₂ in the atmosphere: Theoretical study of the N?H and S?H blue-shifted hydrogen bonds. <i>International Journal of Quantum Chemistry</i> , 2007 , 107, 396-402 ¹		16
66	Online Monitoring of Intraoperative Exhaled Propofol by Acetone-Assisted Negative Photoionization Ion Mobility Spectrometry Coupled with Time-Resolved Purge Introduction. <i>Analytical Chemistry</i> , 2018 , 90, 5280-5289	7.8	15
65	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> , 2019 , 91, 10212-10220	7.8	15
64	Quasi-trapping chemical ionization source based on a commercial VUV lamp for time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 1332-6	7.8	15
63	Pushing the Resolving Power of Tyndall-Powell Gate Ion Mobility Spectrometry over 100 with No Sensitivity Loss for Multiple Ion Species. <i>Analytical Chemistry</i> , 2017 , 89, 13398-13404	7.8	15
62	Trap-and-release membrane inlet ion mobility spectrometry for on-line measurement of trace propofol in exhaled air. <i>Analytical Methods</i> , 2014 , 6, 698-703	3.2	14
61	Detection of nitro-based and peroxide-based explosives by fast polarity-switchable ion mobility spectrometer with ion focusing in vicinity of Faraday detector. <i>Scientific Reports</i> , 2015 , 5, 10659	4.9	14
60	Improved analytical performance of negative ⁶³ Ni ion mobility spectrometry for on-line measurement of propofol using dichloromethane as dopant. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 190-3	3.5	13
59	An in-source stretched membrane inlet for on-line analysis of VOCs in water with single photon ionization TOFMS. <i>Analyst</i> , 2013 , 138, 5826-31	5	13
58	Sensitive detection of black powder by stand-alone ion mobility spectrometer with chlorinated hydrocarbon modifiers in drift gas. <i>Talanta</i> , 2014 , 121, 215-9	6.2	13
57	UV photoionization ion mobility spectrometry: Fundamentals and applications. <i>Analytica Chimica Acta</i> , 2019 , 1077, 1-13	6.6	12

56	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> , 2018 , 1008, 74-81	6.6	12
55	Sensitive detection of trimethylamine based on dopant-assisted positive photoionization ion mobility spectrometry. <i>Talanta</i> , 2017 , 162, 398-402	6.2	12
54	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> , 2018 , 90, 5398-5404	7.8	11
53	Time-resolved dynamic dilution introduction for ion mobility spectrometry and its application in end-tidal propofol monitoring. <i>Journal of Breath Research</i> , 2015 , 9, 016002	3.1	11
52	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> , 2016 , 161, 693-699	6.2	11
51	Water-assisted low temperature plasma ionization source for sensitive detection of explosives. <i>RSC Advances</i> , 2014 , 4, 14791-14794	3.7	10
50	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> , 2011 , 82, 086103	1.7	10
49	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> , 2016 , 27, 144-52	3.5	9
48	Ternary ruthenium complex hydrides for ammonia synthesis via the associative mechanism. <i>Nature Catalysis</i> , 2021 , 4, 959-967	36.5	9
47	Dopant-assisted photoionization positive ion mobility spectrometry coupled with time-resolved purge introduction for online quantitative monitoring of intraoperative end-tidal propofol. <i>Analytica Chimica Acta</i> , 2018 , 1032, 83-90	6.6	9
46	Selectivity improvement of positive photoionization ion mobility spectrometry for rapid detection of organophosphorus pesticides by switching dopant concentration. <i>Talanta</i> , 2018 , 176, 247-252	6.2	8
45	Cluster-assisted generation of multiply charged ions in nanosecond laser ionization of seeded furan beam at 532 and 1064 nm. <i>Molecular Physics</i> , 2008 , 106, 1389-1395	1.7	8
44	Potential analytical methods for on-site oral drug test: Recent developments and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115649	14.6	7
43	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</i> , 2019 , 144, 1104-1109	5	7
42	Dopant titrating ion mobility spectrometry for trace exhaled nitric oxide detection. <i>Journal of Breath Research</i> , 2015 , 9, 016003	3.1	7
41	Ion mobility spectrometry as a simple and rapid method to measure the plasma propofol concentrations for intravenous anaesthesia monitoring. <i>Scientific Reports</i> , 2016 , 6, 37525	4.9	7
40	Development of a Portable Single Photon Ionization-Photoelectron Ionization Time-of-Flight Mass Spectrometer. <i>International Journal of Analytical Chemistry</i> , 2015 , 2015, 581696	1.4	7
39	Rapid determination of intraoperative blood propofol concentration in operating theatre by dopant-enhanced neutral release and negative photoionization ion mobility spectrometry. <i>Analytica Chimica Acta</i> , 2020 , 1098, 47-55	6.6	7

38	Ambient temperature nanoelectrospray ion mobility detector for high performance liquid chromatography in determining amines. <i>Journal of Chromatography A</i> , 2014 , 1358, 192-8	4.5	6
37	Long-term sub second-response monitoring of gaseous ammonia in ambient air by positive ion mobility spectrometry. <i>Talanta</i> , 2017 , 175, 522-527	6.2	6
36	Ion gating in ion mobility spectrometry: Principles and advances. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 133, 116100	14.6	6
35	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> , 2019 , 192, 46-51	6.2	6
34	Dopant-assisted negative photoionization Ion mobility spectrometry coupled with on-line cooling inlet for real-time monitoring H ₂ S concentration in sewer gas. <i>Talanta</i> , 2016 , 153, 295-300	6.2	5
33	Solvent assisted thermal desorption for the on-site detection of illegal drugs by a miniature ion trap mass spectrometer. <i>Analytical Methods</i> , 2020 , 12, 264-271	3.2	5
32	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> , 2020 , 1137, 56-63	6.6	5
31	Achieving high gating performance for ion mobility spectrometry by manipulating ion swarm spatiotemporal behaviors in the vicinity of ion shutter. <i>Analytica Chimica Acta</i> , 2019 , 1052, 96-104	6.6	5
30	Multi-capillary column high-pressure photoionization time-of-flight mass spectrometry and its application for online rapid analysis of flavor compounds. <i>Talanta</i> , 2019 , 201, 33-39	6.2	4
29	A temperature-programmed reaction/single-photon ionization time-of-flight mass spectrometry system for rapid investigation of gas/solid heterogeneous catalytic reactions under realistic reaction conditions. <i>Catalysis Science and Technology</i> , 2015 , 5, 4959-4963	5.5	4
28	Development of a suitcase time-of-flight mass spectrometer for in situ fault diagnosis of SF ₆ -insulated switchgear by detection of decomposition products. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30 Suppl 1, 38-43	2.2	4
27	High Mass Resolution Multireflection Time-of-Flight Secondary Ion Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1196-1204	3.5	4
26	Online Measurement of Exhaled NO Concentration and Its Production Sites by Fast Non-equilibrium Dilution Ion Mobility Spectrometry. <i>Scientific Reports</i> , 2016 , 6, 23095	4.9	4
25	Nonuniform Electric Field-Enhanced In-Source Declustering in High-Pressure Photoionization/Photoionization-Induced Chemical Ionization Mass Spectrometry for Operando Catalytic Reaction Monitoring. <i>Analytical Chemistry</i> , 2021 , 93, 2207-2214	7.8	4
24	Enhancing the sensitivity of ion mobility spectrometry using the ion enrichment effect of non-uniform electrostatic field. <i>Sensors and Actuators B: Chemical</i> , 2019 , 295, 179-185	8.5	3
23	Highly selective and sensitive online measurement of trace exhaled HCN by acetone-assisted negative photoionization time-of-flight mass spectrometry with in-source CID. <i>Analytica Chimica Acta</i> , 2020 , 1111, 31-39	6.6	3
22	Solar photooxidation of azo dye over mixed (Al-Fe) pillared bentonite using hydrogen peroxide. <i>Reaction Kinetics and Catalysis Letters</i> , 2005 , 85, 313-321		3
21	Rapid quantitative determination of blood propofol concentration throughout perioperative period by negative photoionization ion mobility spectrometer with solvent-assisted neutral desorption. <i>Analytica Chimica Acta</i> , 2021 , 1142, 118-126	6.6	3

20	Improved analytical performance of photoionization ion mobility spectrometry for the rapid detection of organophosphorus pesticides using patterns with multiple reactant ions.. <i>RSC Advances</i> , 2018 , 8, 18067-18073	3.7	3
19	A simulation model study of the coupled field in the IMS drift tube. <i>International Journal for Ion Mobility Spectrometry</i> , 2016 , 19, 219-226	1.5	2
18	Separation principle and Monte Carlo studies for differential mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2012 , 15, 91-98	1.5	2
17	Online monitoring of end-tidal propofol in balanced anesthesia by anisole assisted positive photoionization ion mobility spectrometer. <i>Talanta</i> , 2020 , 211, 120712	6.2	2
16	A study of focusing effect in the variable DC electric fields Ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2014 , 17, 11-18	1.5	1
15	Laser induced photoemission electron and the generation of high Rydberg states of atoms and molecules. <i>Science Bulletin</i> , 1998 , 43, 1616-1620		1
14	Benzene-assisted photoionization positive ion mobility spectrometry coupled with a time-resolved introduction for field detecting dimethyl sulfide in seawater. <i>Analytical Methods</i> , 2020 , 12, 5168-5176	3.2	1
13	Breath-by-breath measurement of intraoperative propofol by unidirectional anisole-assisted photoionization ion mobility spectrometry via real-time correction of humidity. <i>Analytica Chimica Acta</i> , 2021 , 1150, 338223	6.6	1
12	Dopant assisted photoionization ion mobility spectrometry for on-site specific and sensitive determination of atmospheric ammonia. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129365	8.5	1
11	Pulse purge thermal desorption ion mobility spectrometer for rapid and sensitive determination of intravenous anesthetic etomidate in blood. <i>Sensors and Actuators B: Chemical</i> , 2021 , 350, 130844	8.5	1
10	Sensitive detection of glyoxal by cluster-mediated CHBr chemical ionization time-of-flight mass spectrometry.. <i>Analytica Chimica Acta</i> , 2022 , 1206, 339612	6.6	1
9	Triboionization in Discontinuous Atmospheric Pressure Inlet for a Miniature Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2021 , 93, 15897-15904	7.8	0
8	Parallel Coupling of Ion Mobility Spectrometry and Ion Trap Mass Spectrometry for the Real-Time Alarm Triggering and Identification of Hazardous Chemical Leakages. <i>Analytical Chemistry</i> , 2021 , 93, 11852-11858	7.8	0
7	Quantitative analysis of Phthalate Esters by in-situ thermal desorption atmospheric pressure photoionization mass spectrometry using a dopant as the internal standard. <i>International Journal of Mass Spectrometry</i> , 2022 , 475, 116819	1.9	0
6	Study of Coulombic broadening in stand-alone ion mobility spectrometry. <i>Review of Scientific Instruments</i> , 2020 , 91, 035111	1.7	
5	Ellipticity-dependent of multiple ionisation methyl iodide cluster using 532 nm nanosecond laser. <i>Molecular Physics</i> , 2016 , 114, 855-861	1.7	
4	A thermal desorption ion mobility spectrometer for the measurement of anticoagulant rodenticide diphacinone in beverages via in situ acid-assisted conversion. <i>Analytical Methods</i> , 2015 , 7, 1104-1109	3.2	
3	Generation of multiple charged ions: Photoemission electron impact ionization. <i>Science in China Series B: Chemistry</i> , 1998 , 41, 525-534		

- 2 Real-time continuous measurement of intraoperative trace exhaled propofol by planar differential mobility spectrometry. *Analytical Methods*, **2021**, 13, 2624-2630 3.2
- 1 Photoionization-induced NO chemical ionization time-of-flight mass spectrometry for rapid measurement of aldehydes and benzenes in vehicles. *Talanta*, **2021**, 235, 122722 6.2