Xiaoming Jiang

List of Publications by Year in descending order

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32 papers	938 citations	430874 18 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	526 citing authors

#	Article	IF	Citations
1	Electrothermal Vaporization for Universal Liquid Sample Introduction to Dielectric Barrier Discharge Microplasma for Portable Atomic Emission Spectrometry. Analytical Chemistry, 2014, 86, 5220-5224.	6.5	83
2	Recent trends in atomic fluorescence spectrometry towards miniaturized instrumentation-A review. Analytica Chimica Acta, 2018, 1019, 25-37.	5.4	72
3	Determination of Hg, Fe, Ni, and Co by Miniaturized Optical Emission Spectrometry Integrated with Flow Injection Photochemical Vapor Generation and Point Discharge. Analytical Chemistry, 2015, 87, 10712-10718.	6.5	71
4	Dielectric Barrier Discharge Carbon Atomic Emission Spectrometer: Universal GC Detector for Volatile Carbon-Containing Compounds. Analytical Chemistry, 2014, 86, 936-942.	6.5	58
5	Nanomaterials for photochemical vapor generation-analytical atomic spectrometry. TrAC - Trends in Analytical Chemistry, 2019, 114, 242-250.	11.4	55
6	Miniaturized Dielectric Barrier Discharge Carbon Atomic Emission Spectrometry with Online Microwave-Assisted Oxidation for Determination of Total Organic Carbon. Analytical Chemistry, 2014, 86, 6214-6219.	6.5	51
7	Cobalt and Copper Ions Synergistically Enhanced Photochemical Vapor Generation of Molybdenum: Mechanism Study and Analysis of Water Samples. Analytical Chemistry, 2019, 91, 5938-5944.	6.5	49
8	Hydride generation-point discharge microplasma-optical emission spectrometry for the determination of trace As, Bi, Sb and Sn. Journal of Analytical Atomic Spectrometry, 2016, 31, 2427-2433.	3.0	44
9	UV light-emitting-diode photochemical mercury vapor generation for atomic fluorescence spectrometry. Analyst, The, 2012, 137, 686-690.	3.5	40
10	Strand Displacement-Induced Enzyme-Free Amplification for Label-Free and Separation-Free Ultrasensitive Atomic Fluorescence Spectrometric Detection of Nucleic Acids and Proteins. Analytical Chemistry, 2016, 88, 12386-12392.	6.5	40
11	Point Discharge Microplasma Optical Emission Spectrometer: Hollow Electrode for Efficient Volatile Hydride/Mercury Sample Introduction and 3D-Printing for Compact Instrumentation. Analytical Chemistry, 2019, 91, 7001-7006.	6.5	32
12	Integration of hydride generation and photochemical vapor generation for multi-element analysis of traditional Chinese medicine by ICP-OES. Microchemical Journal, 2015, 123, 164-169.	4.5	31
13	Nano g-C3N4/TiO2 composite: A highly efficient photocatalyst for selenium (VI) photochemical vapor generation for its ultrasensitive AFS determination. Microchemical Journal, 2017, 135, 158-162.	4.5	30
14	Simultaneous determination of trace cadmium and lead in single human hair by tungsten electrothermal vaporization-flame atomic fluorescence spectrometry. Microchemical Journal, 2014, 114, 182-186.	4.5	28
15	Atomic spectrometric detectors for gas chromatography. TrAC - Trends in Analytical Chemistry, 2016, 77, 139-155.	11.4	25
16	Cobalt ion-enhanced photochemical vapor generation in a mixed acid medium for sensitive detection of tellurium(<scp>iv</scp>) by atomic fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2020, 35, 1405-1411.	3.0	25
17	Flow injection hydride generation for on-atomizer trapping: Highly sensitive determination of cadmium by tungsten coil atomic absorption spectrometry. Microchemical Journal, 2014, 112, 7-12.	4.5	24
18	A miniaturized UV-LED photochemical vapor generator for atomic fluorescence spectrometric determination of trace selenium. Journal of Analytical Atomic Spectrometry, 2018, 33, 1217-1223.	3.0	22

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19	Effect of variable ultraviolet wavelength and intensity on photochemical vapor generation of trace selenium detected by atomic fluorescence spectrometry. Microchemical Journal, 2018, 140, 189-195.	4.5	17
20	UV photochemical vapor generationâ€“nitrogen microwave induced plasma optical emission spectrometric determination of nickel. Journal of Analytical Atomic Spectrometry, 2018, 33, 1086-1091.	3.0	16
21	Cross double point discharge as enhanced excitation source for highly sensitive determination of arsenic, mercury and lead by optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 1193-1200.	3.0	16
22	A compact electrothermal-flame tandem atomizer for highly sensitive atomic fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2012, 27, 1780.	3.0	15
23	Dual-mode chemical vapor generation for simultaneous determination of hydride-forming and non-hydride-forming elements by atomic fluorescence spectrometry. Analyst, The, 2014, 139, 2538-2544.	3.5	14
24	Portable photochemical vapor generation-microwave plasma optical emission spectrometer. Journal of Analytical Atomic Spectrometry, 2020, 35, 1316-1319.	3.0	14
25	A simple dilution method for the direct determination of trace nickel in crude oil with a miniaturized electrothermal atomic absorption spectrometer. Journal of Analytical Atomic Spectrometry, 2020, 35, 2656-2662.	3.0	11
26	Interface-free integration of electrothermal vaporizer and point discharge microplasma for miniaturized optical emission spectrometer. Analytica Chimica Acta, 2021, 1163, 338502.	5.4	11
27	Highly sensitive determination of trace antimony in water samples by cobalt ion enhanced photochemical vapor generation coupled with atomic fluorescence spectrometry or ICP-MS. Analytica Chimica Acta, 2022, 1191, 339361.	5.4	11
28	Miniaturized point discharge-radical optical emission spectrometer: A multichannel optical detector for discriminant analysis of volatile organic sulfur compounds. Talanta, 2018, 188, 378-384.	5.5	8
29	A miniaturized UV-LED array chip-based photochemical vapor generator coupled with a point discharge optical emission spectrometer for the determination of trace selenium. Journal of Analytical Atomic Spectrometry, 2021, 36, 2735-2743.	3.0	8
30	An aqueous room-temperature phosphorescent probe for Gd³⁺. Chemical Communications, 2022, 58, 2686-2689.	4.1	7
31	Microdischarge in Flame as a Source-in-Source for Boosted Excitation of Optical Emission of Chromium. Analytical Chemistry, 2022, 94, 7683-7691.	6.5	6
32	Compact integration of gas chromatographer and atomic fluorescence spectrometer for speciation analysis of trace alkyl metals/semimetals. Microchemical Journal, 2014, 114, 16-21.	4.5	4