

Kailai Xu

List of Publications by Year in descending order

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papers

847
citations

430874

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docs citations

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times ranked

933
citing authors

#	ARTICLE	IF	CITATIONS
1	A cataluminescence gas sensor for triethylamine based on nanosized LaF ₃ @CeO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 261-266.	7.8	93
2	Hydride Generation for Headspace Solid-Phase Extraction with CdTe Quantum Dots Immobilized on Paper for Sensitive Visual Detection of Selenium. <i>Analytical Chemistry</i> , 2016, 88, 789-795.	6.5	70
3	Room Temperature Cation Exchange Reaction in Nanocrystals for Ultrasensitive Speciation Analysis of Silver Ions and Silver Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 6584-6591.	6.5	63
4	Single Drop Solution Electrode Glow Discharge for Plasma Assisted-Chemical Vapor Generation: Sensitive Detection of Zinc and Cadmium in Limited Amounts of Samples. <i>Analytical Chemistry</i> , 2014, 86, 12093-12099.	6.5	56
5	Gold Nanoparticle-Based Colorimetric Assay for Selenium Detection via Hydride Generation. <i>Analytical Chemistry</i> , 2017, 89, 4695-4700.	6.5	56
6	Dielectric Barrier Discharge Molecular Emission Spectrometer as Multichannel GC Detector for Halohydrocarbons. <i>Analytical Chemistry</i> , 2011, 83, 5050-5055.	6.5	54
7	<i>In situ</i> formation of nano-CdSe as a photocatalyst: cadmium ion-enhanced photochemical vapour generation directly from Se(SCl_2). <i>Chemical Communications</i> , 2018, 54, 4874-4877.	4.1	49
8	Disposable Paper-Based Analytical Device for Visual Speciation Analysis of Ag(I) and Silver Nanoparticles (AgNPs). <i>Analytical Chemistry</i> , 2019, 91, 3359-3366.	6.5	49
9	Direct detection of mercury in vapor and aerosol from chemical atomization and nebulization at ambient temperature: exploiting the flame atomic absorption spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 760.	3.0	37
10	UV-Assisted Cataluminescent Sensor for Carbon Monoxide Based on Oxygen-Functionalized g-C ₃ N ₄ Nanomaterials. <i>Analytical Chemistry</i> , 2018, 90, 9598-9605.	6.5	31
11	A RGB-Type Quantum Dot-based Sensor Array for Sensitive Visual Detection of Trace Formaldehyde in Air. <i>Scientific Reports</i> , 2016, 6, 36794.	3.3	29
12	UV-induced atomization of gaseous mercury hydrides for atomic fluorescence spectrometric detection of inorganic and organic mercury after high performance liquid chromatographic separation. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 510.	3.0	25
13	Phosphorescent inner filter effect-based sensing of xanthine oxidase and its inhibitors with Mn-doped ZnS quantum dots. <i>Nanoscale</i> , 2018, 10, 8477-8482.	5.6	25
14	A colorimetric assay for the determination of trace arsenic based on in-situ formation of AuNPs with synergistic effect of arsine and iodide. <i>Analytica Chimica Acta</i> , 2021, 1144, 61-67.	5.4	25
15	AuNCs-Catalyzed Hydrogen Selenide Oxidation: Mechanism and Application for Headspace Fluorescent Detection of Se(IV). <i>Analytical Chemistry</i> , 2019, 91, 6141-6148.	6.5	24
16	Determination of ultratrace nitrogen in pure argon gas by dielectric barrier discharge-molecular emission spectrometry. <i>Microchemical Journal</i> , 2011, 99, 114-117.	4.5	21
17	Determination of trace mercury in geological samples by direct slurry sampling cold vapor generation atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2008, 160, 191-195.	5.0	20
18	UV-assisted Fenton digestion of rice for the determination of trace cadmium by hydride generation atomic fluorescence spectrometry. <i>Analyst</i> , 2016, 141, 1512-1518.	3.5	20

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19	Modification-free and N-acetyl-L-cysteine-induced colorimetric response of AuNPs: A mechanistic study and sensitive Hg ²⁺ detection. <i>Talanta</i> , 2016, 159, 87-92.	5.5	16
20	Corona discharge radical emission spectroscopy: a multi-channel detector with nose-type function for discrimination analysis. <i>Analyst</i> , 2013, 138, 2249.	3.5	14
21	In Situ Synthesis of Porous Carbons by Using Room-Temperature, Atmospheric-Pressure Dielectric Barrier Discharge Plasma as High-Performance Adsorbents for Solid-Phase Microextraction. <i>Chemistry - A European Journal</i> , 2015, 21, 13618-13624.	3.3	14
22	Hydride generation induced chemiluminescence for the determination of tellurium (IV). <i>Microchemical Journal</i> , 2011, 98, 51-55.	4.5	13
23	Chemometric intraregional discrimination of Chinese liquors based on multi-element determination by ICP-MS and ICP-OES. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 115-127.	6.7	9
24	An oligonucleotide-based label-free fluorescent sensor: highly sensitive and selective detection of Hg ²⁺ in aqueous samples. <i>Analytical Methods</i> , 2012, 4, 1310.	2.7	8
25	Miniaturized point discharge-radical optical emission spectrometer: A multichannel optical detector for discriminant analysis of volatile organic sulfur compounds. <i>Talanta</i> , 2018, 188, 378-384.	5.5	8
26	Online multichannel ultrasonic extraction for high throughput determination of arsenic in soil by sequential injection slurry hydride generation atomic fluorescence spectrometry. <i>Analytical Methods</i> , 2013, 5, 3142.	2.7	6
27	A facile photochemical strategy for the synthesis of high-performance amorphous MoS ₂ nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 2830-2836.	4.6	5
28	Modelling of catalytically oxidative decomposition of carbon tetrachloride on a ZnS nanocluster using density functional theory. <i>Catalysis Science and Technology</i> , 2014, 4, 1038.	4.1	3
29	Mechanism of skeletal reorganization of 1,6-enynes catalyzed by GaCl ₃ . <i>Science Bulletin</i> , 2004, 49, 883-885.	1.7	2
30	An overview of alcoholic beverages discrimination and a study on identification of bland Chinese liquors by ¹³ C-NMR and ¹ H-NMR spectra. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 252-270.	6.7	2