

Di Tian

List of Publications by Year in descending order

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papers

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687363

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43
all docs

43
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43
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of laser-induced breakdown spectroscopy signal enhancement. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 1-35.	6.7	126
2	A Review of Laser-Induced Breakdown Spectroscopy for Analysis of Geological Materials. <i>Applied Spectroscopy Reviews</i> , 2015, 50, 1-26.	6.7	82
3	A review of laser-induced breakdown spectroscopy for plastic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 327-334.	11.4	55
4	Multi-element quantitative analysis of soils by laser induced breakdown spectroscopy (LIBS) coupled with univariate and multivariate regression methods. <i>Analytical Methods</i> , 2019, 11, 3006-3013.	2.7	45
5	Towards Higher Sensitivity of Mass Spectrometry: A Perspective From the Mass Analyzers. <i>Frontiers in Chemistry</i> , 2021, 9, 813359.	3.6	42
6	Rapid classification of plastics by laser-induced breakdown spectroscopy (LIBS) coupled with partial least squares discrimination analysis based on variable importance (VI-PLS-DA). <i>Analytical Methods</i> , 2019, 11, 1174-1179.	2.7	31
7	An improved algorithm for peak detection in mass spectra based on continuous wavelet transform. <i>International Journal of Mass Spectrometry</i> , 2016, 409, 53-58.	1.5	27
8	Laser Induced Breakdown Spectroscopy Based on Single Beam Splitting and Geometric Configuration for Effective Signal Enhancement. <i>Scientific Reports</i> , 2015, 5, 7625.	3.3	21
9	Rapid classification of plastic bottles by laser-induced breakdown spectroscopy (LIBS) coupled with partial least squares discrimination analysis based on spectral windows (SW-PLS-DA). <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1665-1671.	3.0	21
10	The basicity analysis of sintered ore using laser-induced breakdown spectroscopy (LIBS) combined with random forest regression (RFR). <i>Analytical Methods</i> , 2017, 9, 5365-5370.	2.7	19
11	A portable and field optical emission spectrometry coupled with microplasma trap for high sensitivity analysis of arsenic and antimony simultaneously. <i>Talanta</i> , 2020, 218, 121161.	5.5	19
12	Review of miniaturized and portable optical emission spectrometry based on microplasma for elemental analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116437.	11.4	18
13	A web-based virtual laboratory for SHRIMP. <i>Computer Applications in Engineering Education</i> , 2018, 26, 1493-1506.	3.4	14
14	Quantitative analysis of toxic elements in polypropylene (PP) via laser-induced breakdown spectroscopy (LIBS) coupled with random forest regression based on variable importance (VI-RFR). <i>Analytical Methods</i> , 2019, 11, 4769-4774.	2.7	14
15	A UV digital micromirror spectrometer for dispersive AFS: spectral interference in simultaneous determination of Se and Pb. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2098-2106.	3.0	13
16	A web-based virtual laboratory for electron probe microanalysis. <i>Computer Applications in Engineering Education</i> , 2015, 23, 489-498.	3.4	11
17	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.	3.5	10
18	Design and performance evaluation of a novel ion funnel driven by a phase-modulated rectangular wave. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1079-1086.	1.5	9

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19	Trace arsenic analysis in edible seaweeds by miniature <i>in situ</i> dielectric barrier discharge microplasma optical emission spectrometry based on gas phase enrichment. <i>Analytical Methods</i> , 2021, 13, 4079-4089.	2.7	8
20	An Improved Circle Detection Method Based on Right Triangles Inscribed in a Circle. , 2009, , .		7
21	A Multifunctional Sampling Chamber for Laser-Induced Breakdown Spectroscopy for On-Site Elemental Analysis. <i>Instrumentation Science and Technology</i> , 2015, 43, 485-495.	1.8	7
22	Integrated instrumentation for combined laser-induced breakdown and Raman spectroscopy. <i>Instrumentation Science and Technology</i> , 2019, 47, 355-373.	1.8	7
23	Design and Development of a Miniature Digital Delay Generator for Laser-Induced Breakdown Spectroscopy. <i>Instrumentation Science and Technology</i> , 2015, 43, 115-124.	1.8	4
24	Research on Dispersive Detection Technology Based on Digital Micromirror Device by Atomic Fluorescence Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2018, 46, 1878-1885.	1.7	4
25	Compact instrumentation and (analytical) performance evaluation for laser-induced breakdown spectroscopy. <i>Instrumentation Science and Technology</i> , 2019, 47, 70-89.	1.8	4
26	Determination of Arsenic in Soil by Ultrasonic Assisted Slurry Sampling Hydride Generation (HG) <i>in-Situ</i> Dielectric Barrier Discharge Trap (DBD)-Optical Emission Spectrometry (OES). <i>Analytical Letters</i> , 2022, 55, 1349-1363.	1.8	4
27	Elemental analysis of cemented carbides by calibration-free portable laser-induced breakdown spectroscopy. <i>Instrumentation Science and Technology</i> , 2018, 46, 277-291.	1.8	3
28	IM-Based Communication Mechanism for an On-Line Monitoring System. , 2009, , .		2
29	Efficient Global Motion Estimation Using Macroblock Pair Vectors. , 2009, , .		2
30	A review of geoanalytical databases. <i>Acta Geochimica</i> , 2019, 38, 718-733.	1.7	2
31	Spectral reduction model for an echelle spectrometer based on digital micromirror device and photomultiplier. <i>Applied Optics</i> , 2021, 60, 9101-9109.	1.8	2
32	A software system for dispersive atomic fluorescence spectrometry based on UV digital micromirror device. <i>Review of Scientific Instruments</i> , 2021, 92, 114103.	1.3	2
33	High-sensitivity and field analysis of lead by portable optical emission spectrometry using a microplasma trap. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1141-1149.	3.0	2
34	A distributed monitoring system for working status of scientific instruments. , 2008, , .		1
35	Fast block matching algorithm for H.264/SVC motion estimation based on sub-sampling. , 2010, , .		1
36	An improved position errors test method of image recorded by voyage data recorder. , 2016, , .		1

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37	SHRIMPDB: a new geoanalytical database for U-Th-Pb geochronological data from SHRIMP measurements. <i>Earth Science Informatics</i> , 2018, 11, 623-631.	3.2	1
38	Design of a Resonant Radiofrequency Driver for Ion Transmission in a Desktop Mass Spectrometer and Its Application in Volatile Organic Compound Determination. <i>Analytical Letters</i> , 2020, 53, 1554-1565.	1.8	1
39	Photoionization-induced NO ⁺ chemical ionization time-of-flight mass spectrometry for rapid measurement of aldehydes and benzenes in vehicles. <i>Talanta</i> , 2021, 235, 122722.	5.5	1
40	Analysis and suppression of scattering interference for arsenic using dispersive atomic fluorescence spectrometry based on an ultraviolet digital micromirror device spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1715-1721.	3.0	1
41	Numerical Simulations and the Design of Magnetic Field-Enhanced Electron Impact Ion Source with Hollow Cylinder Structure. <i>Journal of Analytical Methods in Chemistry</i> , 2020, 2020, 1-7.	1.6	0
42	Analysis of low-abundance molecules in complex matrices by quadrupole-linear ion trap mass spectrometry using a simultaneous fragmentation and accumulation strategy. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9276.	1.5	0