

Yixiang Duan

List of Publications by Year in descending order

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182
papers

5,041
citations

76294

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138417

58
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183
all docs

183
docs citations

183
times ranked

5609
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-based ambient mass spectrometry: Recent progress and applications. <i>Mass Spectrometry Reviews</i> , 2023, 42, 95-130.	2.8	18
2	A universal array platform for ultrasensitive, high-throughput and microvolume detection of heavy metal, nucleic acid and bacteria based on photonic crystals combined with DNA nanomachine. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113731.	5.3	11
3	Induction of autophagy and endoplasmic reticulum autophagy caused by cadmium telluride quantum dots are protective mechanisms of yeast cell. <i>Journal of Applied Toxicology</i> , 2022, 42, 1146-1158.	1.4	6
4	Sandwich method-based sensitivity enhancement of $\hat{\text{C}}$ -shaped fiber optic LSPR for time-flexible bacterial detection. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113911.	5.3	18
5	Simultaneous determination of lithology and major elements in rocks using laser-induced breakdown spectroscopy (LIBS) coupled with a deep convolutional neural network. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 508-516.	1.6	15
6	High-Throughput Recognition of Tumor Cells Using Label-Free Elemental Characteristics Based on Interpretable Deep Learning. <i>Analytical Chemistry</i> , 2022, 94, 3158-3164.	3.2	10
7	Advances in pretreatment and analysis methods of aromatic hydrocarbons in soil. <i>RSC Advances</i> , 2022, 12, 6099-6113.	1.7	1
8	Direct Amination of Benzene with Molecular Nitrogen Enabled by Plasma-Liquid Interactions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
9	Low-Triggering-Potential Electrochemiluminescence from a Luminol Analogue Functionalized Semiconducting Polymer Dots for Imaging Detection of Blood Glucose. <i>Analytical Chemistry</i> , 2022, 94, 5615-5623.	3.2	13
10	Catalytic hairpin assembly as cascade nucleic acid circuits for fluorescent biosensor: Design, evolution and application. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 151, 116582.	5.8	32
11	A dual-functional fluorescent biosensor based on enzyme-involved catalytic hairpin assembly for the detection of APE1 and miRNA-21. <i>Analyst</i> , The, 2022, 147, 2834-2842.	1.7	14
12	A hybrid method combining discharge-assisted laser induced breakdown spectroscopy with wavelet transform for trace elemental analysis in liquid targets. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1350-1359.	1.6	6
13	Direct and sensitive determination of Cu, Pb, Cr and Ag in soil by laser ablation microwave plasma torch optical emission spectrometry. <i>Talanta</i> , 2022, 246, 123516.	2.9	7
14	Contrasting time-resolved characteristics of laser-induced plasma spatially confined by conical cavities with different bottom diameters. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, .	1.1	0
15	Mechanism of ER stress-mediated ER-phagy by CdTe-QDs in yeast cells. <i>Toxicology Letters</i> , 2022, 365, 36-45.	0.4	2
16	Recent advances of catalytic hairpin assembly and its application in bioimaging and biomedicine. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5303-5322.	2.9	12
17	Construction of classification models for pathogenic bacteria based on LIBS combined with different machine learning algorithms. <i>Applied Optics</i> , 2022, 61, 6177.	0.9	4
18	Synergetic effect of laser and micro-fabricated glow discharge plasma in a new ion source for ambient mass spectrometry. <i>Talanta</i> , 2021, 225, 121847.	2.9	1

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19	A novel surface-enhanced Raman scattering (SERS) strategy for ultrasensitive detection of bacteria based on three-dimensional (3D) DNA walker. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112758.	5.3	69
20	Study on the Molecular Mechanisms Against Human Breast Cancer from Insight of Elemental Distribution in Tissue Based on Laser-Induced Breakdown Spectroscopy (LIBS). <i>Biological Trace Element Research</i> , 2021, 199, 1686-1692.	1.9	15
21	An enzyme-mediated universal fluorescent biosensor template for pathogen detection based on a three-dimensional DNA walker and catalyzed hairpin assembly. <i>Nanoscale</i> , 2021, 13, 2492-2501.	2.8	24
22	Imaging of Tumor Boundary Based on Multielements and Molecular Fragments Heterogeneity in Lung Cancer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-7.	2.4	6
23	An efficient localized catalytic hairpin assembly-based DNA nanomachine for miRNA-21 imaging in living cells. <i>Analyst, The</i> , 2021, 146, 3041-3051.	1.7	26
24	Trace detection of organophosphorus pesticides in vegetables <i>via</i> enrichment by magnetic zirconia and temperature-assisted ambient micro-fabricated glow discharge plasma desorption ionization mass spectrometry. <i>Analyst, The</i> , 2021, 146, 6944-6954.	1.7	2
25	The development of a wash-free homogeneous immunoassay method for the detection of tetracycline in environmental samples. <i>Analyst, The</i> , 2021, 146, 4918-4926.	1.7	15
26	Low-cost smartphone-based LIBS combined with deep learning image processing for accurate lithology recognition. <i>Chemical Communications</i> , 2021, 57, 7156-7159.	2.2	8
27	A highly sensitive fluorescence biosensor for detection of <i>Staphylococcus aureus</i> based on HCR-mediated three-way DNA junction nicking enzyme assisted signal amplification. <i>Analyst, The</i> , 2021, 146, 6528-6536.	1.7	9
28	Ex vivo <i>three-dimensional</i> elemental imaging of mouse brain tissue block by laser-induced breakdown spectroscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000479.	1.1	12
29	Development of a rapid and ultra-sensitive cytosensor: H^+ -shaped fiber optic LSPR integrated with suitable AuNPs coverage. <i>Sensors and Actuators B: Chemical</i> , 2021, 336, 129706.	4.0	21
30	Pulling G-quadruplex out of dilemma for better colorimetric performance. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129830.	4.0	2
31	Ultrasensitive and Simultaneous Detection of Multielements in Aqueous Samples Based on Biomimetic Array Combined with Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 10196-10203.	3.2	20
32	Hybridized nanolayer modified H^+ -shaped fiber-optic synergistically enhances localized surface plasma resonance for ultrasensitive cytosensor and efficient photothermal therapy. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113599.	5.3	12
33	Effective N_2 capture by aryl cations at ambient temperature and pressure. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10763-10767.	1.3	7
34	Nanoparticle-assisted metal-organic framework (MOF) enhanced laser-induced breakdown spectroscopy for the detection of heavy metal ions in liquid samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2173-2184.	1.6	3
35	Multiplexing steganography based on laser-induced breakdown spectroscopy coupled with machine learning. <i>Chemical Communications</i> , 2021, 57, 7312-7315.	2.2	5
36	Direct Oxidative Nitrogen Fixation from Air and H_2O by a Water Falling Film Dielectric Barrier Discharge Reactor at Ambient Pressure and Temperature. <i>ChemSusChem</i> , 2021, 14, 1507-1511.	3.6	22

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37	Synchronous detection of heavy metal ions in aqueous solution by gold nanoparticle surface-enhanced laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2639-2648.	1.6	17
38	Breath volatile organic compound analysis: an emerging method for gastric cancer detection. <i>Journal of Breath Research</i> , 2021, 15, 044002.	1.5	16
39	Self-extending DNA-Mediated Isothermal Amplification System and Its Biosensing Applications. <i>Analytical Chemistry</i> , 2021, 93, 14334-14342.	3.2	6
40	The M6A methyltransferase METTL3 regulates proliferation in esophageal squamous cell carcinoma. <i>Biochemical and Biophysical Research Communications</i> , 2021, 580, 48-55.	1.0	12
41	High performance exhaled breath biomarkers for diagnosis of lung cancer and potential biomarkers for classification of lung cancer. <i>Journal of Breath Research</i> , 2021, 15, 016017.	1.5	12
42	Development of microwave plasma proton transfer reaction mass spectrometry (MWP-PTR-MS) for on-line monitoring of volatile organic compounds: Design, characterization and performance evaluation. <i>Talanta</i> , 2020, 208, 120468.	2.9	9
43	Metal-chelate induced nanoparticle aggregation enhanced laser-induced breakdown spectroscopy for ultra-sensitive detection of trace metal ions in liquid samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 188-197.	1.6	14
44	Design strategies of AuNPs-based nucleic acid colorimetric biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115795.	5.8	71
45	A rapid, adaptative DNA biosensor based on molecular beacon-concatenated dual signal amplification strategies for ultrasensitive detection of p53 gene and cancer cells. <i>Talanta</i> , 2020, 210, 120638.	2.9	23
46	Toehold-mediated strand displacement reaction formation of three-way junction DNA structure combined with nicking enzyme signal amplification for highly sensitive colorimetric detection of <i>Salmonella Typhimurium</i> . <i>Analytica Chimica Acta</i> , 2020, 1139, 138-145.	2.6	20
47	Sol-gel fabrication and performance evaluation of graphene-based hydrophobic solid-phase microextraction fibers for multi-residue analysis of pesticides in water samples. <i>Analytical Methods</i> , 2020, 12, 3954-3963.	1.3	7
48	Time-resolved characteristics of laser induced breakdown spectroscopy on non-flat samples by single beam splitting. <i>RSC Advances</i> , 2020, 10, 39553-39561.	1.7	4
49	Metabolite profiling of mice under long-term fructose drinking and vitamin D deficiency: increased risks for metabolic syndrome and nonalcoholic fatty liver disease. <i>Journal of Physiology and Biochemistry</i> , 2020, 76, 587-598.	1.3	4
50	The Recent Development of Hybridization Chain Reaction Strategies in Biosensors. <i>ACS Sensors</i> , 2020, 5, 2977-3000.	4.0	76
51	Quantitative Analysis of <i>Salmonella typhimurium</i> Based on Elemental-Tags Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 8090-8096.	3.2	21
52	A self-assembly based on a hydrogel interface: facile, rapid, and large-scale preparation of colloidal photonic crystals. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2409-2417.	3.2	3
53	Poly-adenine regulated DNA density on AuNPs to construct efficient DNA walker for microRNA-21 detection. <i>Talanta</i> , 2020, 217, 121056.	2.9	37
54	Methylation in combination with temperature programming enables rapid identification of polysaccharides by ambient micro-fabrication glow discharge plasma (MFGDP) desorption ionization mass spectrometry. <i>Talanta</i> , 2020, 218, 121156.	2.9	6

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55	Applications of Raman spectroscopy in two-dimensional materials. <i>Journal of Innovative Optical Health Sciences</i> , 2020, 13, .	0.5	10
56	A Highly Costâ€Efficient Largeâ€Scale Uniform Laminar Plasma Jet Array Enhanced by <i><i>V</i>â€<i>I</i></i> Characteristic Modulation in a Nonâ€Selfâ€Sustained Atmospheric Discharge. <i>Advanced Science</i> , 2020, 7, 1902616.	5.6	23
57	Interpretation of Ionization Mechanism Responsible for Reagent Ion and Analyte Formation in Microwave-Induced Plasma Desorption Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 752-762.	1.2	6
58	Efficient degradation of Fipronil in water by microwave-induced argon plasma: Mechanism and degradation pathways. <i>Science of the Total Environment</i> , 2020, 725, 138487.	3.9	11
59	Exploratory study on classification of lung cancer subtypes through a combined K-nearest neighbor classifier in breathomics. <i>Scientific Reports</i> , 2020, 10, 5880.	1.6	24
60	Discrimination of elemental responsiveness to tumor chemotherapy by laser-induced breakdown spectroscopy coupled with chemometric methods. <i>Laser Physics</i> , 2020, 30, 105701.	0.6	6
61	Kinetics of optical clearing of human skin studied <i>in vivo</i> using portable Raman spectroscopy. <i>Laser Physics Letters</i> , 2020, 17, 105601.	0.6	13
62	Quantitative multiple-element simultaneous analysis of seaweed fertilizer by laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2020, 28, 14198.	1.7	12
63	A mechanism study of positive ionization processes in flowing atmospheric-pressure afterglow (FAPA) ambient ion source with controlled plasma and ambient conditions. <i>Talanta</i> , 2019, 205, 120090.	2.9	7
64	Research progress of DNA walker and its recent applications in biosensor. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115626.	5.8	94
65	Integrated instrumentation for combined laser-induced breakdown and Raman spectroscopy. <i>Instrumentation Science and Technology</i> , 2019, 47, 355-373.	0.9	7
66	A Filamentary Plasma Jet Generated by Argon Dielectric-Barrier Discharge in Ambient Air. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3134-3140.	0.6	13
67	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.	1.3	45
68	Novel combined instrumentation for laser-induced breakdown spectroscopy and Raman spectroscopy for the <i>in situ</i> atomic and molecular analysis of minerals. <i>Instrumentation Science and Technology</i> , 2019, 47, 564-579.	0.9	2
69	A colorimetric sensing platform based on site-specific endonuclease IV-aided signal amplification for the detection of DNA related to the human immunodeficiency virus. <i>Analytical Methods</i> , 2019, 11, 2190-2196.	1.3	4
70	A double-functionalized polymeric ionic liquid used as solid-phase microextraction coating for efficient aromatic amine extraction and detection with gas chromatographyâ€mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2209-2221.	1.9	16
71	Label-Free and Enzyme-Free Colorimetric Detection of Pb ²⁺ Based on RNA Cleavage and Annealing-Accelerated Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2019, 91, 4806-4813.	3.2	84
72	Effect of H ₂ O ₂ induced oxidative stress (OS) on volatile organic compounds (VOCs) and intracellular metabolism in MCF-7 breast cancer cells. <i>Journal of Breath Research</i> , 2019, 13, 036005.	1.5	22

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73	Preparation of Au@Ag core-shell nanoparticle decorated silicon nanowires for bacterial capture and sensing combined with laser induced breakdown spectroscopy and surface-enhanced Raman spectroscopy. <i>Nanoscale</i> , 2019, 11, 5346-5354.	2.8	56
74	Investigation of CO ₂ Splitting Process Under Atmospheric Pressure Using Multi-electrode Cylindrical DBD Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 809-824.	1.1	22
75	VOC biomarkers identification and predictive model construction for lung cancer based on exhaled breath analysis: research protocol for an exploratory study. <i>BMJ Open</i> , 2019, 9, e028448.	0.8	20
76	One-Step Self-Assembly of Multifunctional DNA Nanohydrogels: An Enhanced and Harmless Strategy for Guiding Combined Antitumor Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46479-46489.	4.0	54
77	Two-dimensional simulation of dielectric barrier discharge with ring electrodes at atmospheric pressure. <i>Physics of Plasmas</i> , 2019, 26, 013511.	0.7	4
78	Ultrasensitive U-shaped fiber optic LSPR cytosensing for label-free and in situ evaluation of cell surface N-glycan expression. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 582-588.	4.0	40
79	Rapidly monitoring the quality of flavoring essence based on microwave-induced plasma ionization mass spectrometry and multivariate statistical analysis. <i>Talanta</i> , 2019, 198, 97-104.	2.9	2
80	Crosstalk between Autophagy and Nanomaterials: Internalization, Activation, Termination. <i>Advanced Biology</i> , 2019, 3, e1800259.	3.0	22
81	Design and Electrical Analysis of Multi-Electrode Cylindrical Dielectric Barrier Discharge Plasma Reactor. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 419-426.	0.6	8
82	Compact instrumentation and (analytical) performance evaluation for laser-induced breakdown spectroscopy. <i>Instrumentation Science and Technology</i> , 2019, 47, 70-89.	0.9	4
83	Signal enhancement of laser-induced breakdown spectroscopy on non-flat samples by single beam splitting. <i>Optics Express</i> , 2019, 27, 20541.	1.7	10
84	Quantitative analysis of steel samples by laser-induced-breakdown spectroscopy with wavelet-packet-based relevance vector machines. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 975-985.	1.6	8
85	Combining autophagy-inducing peptides and brefeldin A delivered by perinuclear-localized mesoporous silica nanoparticles: a manipulation strategy for ER-phagy. <i>Nanoscale</i> , 2018, 10, 8796-8805.	2.8	19
86	Non-Transition-Metal Catalytic System for N ₂ Reduction to NH ₃ : A Density Functional Theory Study of Al-Doped Graphene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 570-576.	2.1	43
87	Novel laser induced breakdown spectroscopy Raman instrumentation using a single pulsed laser and an echelle spectrometer. <i>Instrumentation Science and Technology</i> , 2018, 46, 163-174.	0.9	11
88	Elemental analysis of cemented carbides by calibration-free portable laser-induced breakdown spectroscopy. <i>Instrumentation Science and Technology</i> , 2018, 46, 277-291.	0.9	3
89	A highly efficient magnetically confined ion source for real time on-line monitoring of trace compounds in ambient air. <i>Chemical Communications</i> , 2018, 54, 12962-12965.	2.2	13
90	Combination of support vector regression (SVR) and microwave plasma atomic emission spectrometry (MWP-AES) for quantitative elemental analysis in solid samples using the continuous direct solid sampling (CDSS) technique. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1954-1961.	1.6	8

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91	Influence of humidity on the characteristics of laser-induced air plasma. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 106001.	0.8	10
92	Ň-Shaped Fiber-Optic Probe-Based Localized Surface Plasmon Resonance Biosensor for Real-Time Detection of <i>Salmonella</i> Typhimurium. <i>Analytical Chemistry</i> , 2018, 90, 13640-13646.	3.2	55
93	A Facile, Label-Free, and Universal Biosensor Platform Based on Target-Induced Graphene Oxide Constrained DNA Dissociation Coupling with Improved Strand Displacement Amplification. <i>ACS Sensors</i> , 2018, 3, 2423-2431.	4.0	30
94	Multichannel-Structured Three-Dimensional Chip for Highly Sensitive Pathogenic Bacteria Detection Based on Fast DNA-Programmed Signal Polymerization. <i>Analytical Chemistry</i> , 2018, 90, 12019-12026.	3.2	28
95	Optical and electrical analysis of multi-electrode cylindrical dielectric barrier discharge (DBD) plasma reactor. <i>Vacuum</i> , 2018, 157, 465-474.	1.6	22
96	A novel strategy for rapid detection of bacteria in water by the combination of three-dimensional surface-enhanced Raman scattering (3D SERS) and laser induced breakdown spectroscopy (LIBS). <i>Analytica Chimica Acta</i> , 2018, 1043, 64-71.	2.6	48
97	Effects of Air/H ₂ O Discharge Plasma on Propane Combustion Enhancement Using Dielectric Barrier Discharges. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 831-850.	1.1	4
98	Accuracy improvement of quantitative LIBS analysis using wavelet threshold de-noising. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 629-637.	1.6	15
99	New findings of silica nanoparticles induced ER autophagy in human colon cancer cell. <i>Scientific Reports</i> , 2017, 7, 42591.	1.6	38
100	Exploration and performance evaluation of microwave-induced plasma with different discharge gases for ambient desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 919-927.	0.7	7
101	Fabrication of porous ionic liquid polymer as solid-phase microextraction coating for analysis of organic acids by gas chromatography- mass spectrometry. <i>Talanta</i> , 2017, 172, 45-52.	2.9	39
102	Cationic Polystyrene Resolves Nonalcoholic Steatohepatitis, Obesity, and Metabolic Disorders by Promoting Eubiosis of Gut Microbiota and Decreasing Endotoxemia. <i>Diabetes</i> , 2017, 66, 2137-2143.	0.3	24
103	A hydrogel-based solidification method for the direct analysis of liquid samples by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1412-1419.	1.6	32
104	Rapid identification and desorption mechanisms of nitrogen-based explosives by ambient micro-fabricated glow discharge plasma desorption/ionization (MFGDP) mass spectrometry. <i>Talanta</i> , 2017, 167, 75-85.	2.9	24
105	Exhaled isopropanol: new potential biomarker in diabetic breathomics and its metabolic correlations with acetone. <i>RSC Advances</i> , 2017, 7, 17480-17488.	1.7	37
106	Design and evaluation of a new bench-top instrument for laser-induced breakdown spectroscopy. <i>Instrumentation Science and Technology</i> , 2017, 45, 650-658.	0.9	5
107	A Novel Microwave-Induced Plasma Ionization Source for Ion Mobility Spectrometry. <i>Scientific Reports</i> , 2017, 7, 44051.	1.6	7
108	Optical Imaging Paves the Way for Autophagy Research. <i>Trends in Biotechnology</i> , 2017, 35, 1181-1193.	4.9	24

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109	Fluorescent aptasensor for antibiotic detection using magnetic bead composites coated with gold nanoparticles and a nicking enzyme. <i>Analytica Chimica Acta</i> , 2017, 984, 177-184.	2.6	68
110	Highly concentrated, ring-shaped phase conversion laser-induced breakdown spectroscopy technology for liquid sample analysis. <i>Applied Optics</i> , 2017, 56, 5092.	2.1	6
111	GC-Based Techniques for Breath Analysis: Current Status, Challenges, and Prospects. <i>Critical Reviews in Analytical Chemistry</i> , 2016, 46, 291-304.	1.8	33
112	Untargeted saliva metabonomics study of breast cancer based on ultra performance liquid chromatography coupled to mass spectrometry with HILIC and RPLC separations. <i>Talanta</i> , 2016, 158, 351-360.	2.9	55
113	A novel method for metallic element analysis in particle samples using a laser-induced breakdown spectroscopy technique. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1527-1533.	1.6	12
114	Temporal-resolved characterization of laser-induced plasma for spectrochemical analysis of gas shales. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 121, 28-37.	1.5	20
115	Investigation of biomarkers for discriminating breast cancer cell lines from normal mammary cell lines based on VOCs analysis and metabolomics. <i>RSC Advances</i> , 2016, 6, 41816-41824.	1.7	16
116	Emission enhancement of laser-induced breakdown spectroscopy for aqueous sample analysis based on Au nanoparticles and solid-phase substrate. <i>Applied Optics</i> , 2016, 55, 6706.	2.1	37
117	Preliminary construction of integral analysis for characteristic components in complex matrices by in-house fabricated solid-phase microextraction fibers combined with gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1461, 18-26.	1.8	8
118	Matrix-Assisted Plasma Atomization Emission Spectrometry for Surface Sampling Elemental Analysis. <i>Scientific Reports</i> , 2016, 6, 19417.	1.6	7
119	In situ targeting TEM8 via immune response and polypeptide recognition by wavelength-modulated surface plasmon resonance biosensor. <i>Scientific Reports</i> , 2016, 6, 20006.	1.6	10
120	An aptamer based method for small molecules detection through monitoring salt-induced AuNPs aggregation and surface plasmon resonance (SPR) detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 474-479.	4.0	52
121	Ultra-trace metallic element detection in liquid samples using laser induced breakdown spectroscopy based on matrix conversion and crosslinked PVA polymer membrane. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1622-1630.	1.6	34
122	Exploration of Microplasma Probe Desorption/Ionization Mass Spectrometry (MPPDI-MS) for Biologically Related Analysis. <i>Analytical Chemistry</i> , 2016, 88, 1667-1673.	3.2	10
123	Fiber Optic Surface Plasmon Resonance-Based Biosensor Technique: Fabrication, Advancement, and Application. <i>Critical Reviews in Analytical Chemistry</i> , 2016, 46, 213-223.	1.8	78
124	Multi-elemental surface mapping and analysis of carbonaceous shale by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 115, 31-39.	1.5	30
125	Dehydrated Carbon Coupled with Laser-Induced Breakdown Spectrometry (LIBS) for the Determination of Heavy Metals in Solutions. <i>Applied Spectroscopy</i> , 2015, 69, 1190-1198.	1.2	13
126	Preparation and tumor cell model based biobehavioral evaluation of the nanocarrier system using partially reduced graphene oxide functionalized by surfactant. <i>International Journal of Nanomedicine</i> , 2015, 10, 4605.	3.3	11

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127	Investigation of salivary free amino acid profile for early diagnosis of breast cancer with ultra performance liquid chromatography-mass spectrometry. <i>Clinica Chimica Acta</i> , 2015, 447, 23-31.	0.5	53
128	Simple, Fast Matrix Conversion and Membrane Separation Method for Ultrasensitive Metal Detection in Aqueous Samples by Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 5577-5583.	3.2	54
129	Ambient ionization and direct identification of volatile organic compounds with microwave-induced plasma mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 388-395.	0.7	14
130	Laser-induced breakdown spectroscopy technique for quantitative analysis of aqueous solution using matrix conversion based on plant fiber spunlaced nonwovens. <i>Applied Optics</i> , 2015, 54, 8318.	2.1	19
131	Development of solid-phase microextraction fibers based on multi-walled carbon nanotubes for pre-concentration and analysis of alkanes in human breath. <i>Journal of Chromatography A</i> , 2015, 1425, 34-41.	1.8	12
132	A systematic study of the distinctive character of microwave induced plasma desorption/ionization (MIPDI) mass spectrometry: Is it a soft or a hard ion source?. <i>International Journal of Mass Spectrometry</i> , 2015, 376, 65-74.	0.7	15
133	A facile one-pot synthesis of starch functionalized graphene as nano-carrier for pH sensitive and starch-mediated drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 86-93.	2.5	61
134	A Multifunctional Sampling Chamber for Laser-Induced Breakdown Spectroscopy for On-Site Elemental Analysis. <i>Instrumentation Science and Technology</i> , 2015, 43, 485-495.	0.9	7
135	Laser Induced Breakdown Spectroscopy Based on Single Beam Splitting and Geometric Configuration for Effective Signal Enhancement. <i>Scientific Reports</i> , 2015, 5, 7625.	1.6	21
136	Plasma enhanced label-free immunoassay for alpha-fetoprotein based on a U-bend fiber-optic LSPR biosensor. <i>RSC Advances</i> , 2015, 5, 23990-23998.	1.7	51
137	A novel specimen-preparing method using epoxy resin as binding material for LIBS analysis of powder samples. <i>Talanta</i> , 2015, 144, 1370-1376.	2.9	21
138	A cross-sectional study of breath acetone based on diabetic metabolic disorders. <i>Journal of Breath Research</i> , 2015, 9, 016005.	1.5	37
139	Microwave induced plasma desorption ionization (MIPDI) mass spectrometry for qualitative and quantitative analysis of preservatives in cosmetics. <i>RSC Advances</i> , 2015, 5, 40636-40646.	1.7	12
140	Quantitative analysis of sedimentary rocks using laser-induced breakdown spectroscopy: comparison of support vector regression and partial least squares regression chemometric methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2384-2393.	1.6	50
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