

Detection of chlorine and fluorine in air by laser-induced

Analytical Chemistry

55, 1252-1256

DOI: [10.1021/ac00259a017](https://doi.org/10.1021/ac00259a017)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Spectral analysis with laser atomization (Review). Journal of Applied Spectroscopy, 1985, 43, 941-954.	0.3	0
2	Measurement of the properties of a CO2 laser induced air-plasma by double floating probe and spectroscopic techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1985, 40, 517-525.	1.5	26
3	Pulsed infrared laser thermal lens spectrometry of flowing gas samples. Analytical Chemistry, 1985, 57, 758-762.	3.2	76
4	Direct Detection of Beryllium on Filters Using the Laser Spark. Applied Spectroscopy, 1985, 39, 57-63.	1.2	76
5	Time-Resolved Laser-Induced Breakdown Spectrometry for the Rapid Determination of Beryllium in Beryllium-Copper Alloys. Applied Spectroscopy, 1986, 40, 491-494.	1.2	30
6	An Evaluation Of Factors Affecting The Analysis Of Metals Using Laser-Induced Breakdown Spectroscopy (LIBS). , 1986, , .		8
7	Determination of Uranium in Solution Using Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 1987, 41, 1042-1048.	1.2	192
8	Direct and near real-time determination of metals in the atmosphere by atomic spectroscopic techniques. TrAC - Trends in Analytical Chemistry, 1988, 7, 222-226.	5.8	8
9	Evaluation of an Isolated Droplet Sample Introduction System for Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 1988, 42, 741-746.	1.2	90
10	Laser Breakdown Acoustic Effect of Ultrafine Particle in Liquids and Its Application to Particle Counting. Japanese Journal of Applied Physics, 1988, 27, L983.	0.8	33
11	Plasma sources in inorganic-gas analysis (review). Journal of Applied Spectroscopy, 1989, 50, 123-129.	0.3	0
12	The possibility of the laser-induced fluorescence determination of metals in gases. Journal of Applied Spectroscopy, 1989, 51, 953-956.	0.3	0
13	Laser Breakdown Spectrochemical Analysis of Microparticles in Liquids. Chemistry Letters, 1989, 18, 2205-2208.	0.7	17
14	Analytical techniques using lasers. Progress in Quantum Electronics, 1990, 14, 131-249.	3.5	31
15	Laser-induced breakdown spectroscopy: principles, applications, and instruments. , 1990, 1318, 71.		7
16	Ultraviolet laser microplasma "gas chromatography detector: detection of species-specific fragment emission. Applied Optics, 1990, 29, 4987.	2.1	23
17	A Novel Detector for Gas Chromatography Based on UV Laser-Produced Microplasmas. Applied Spectroscopy, 1990, 44, 1040-1043.	1.2	23
18	Time-Resolved Laser-Induced Breakdown Spectroscopy of Iron Ore. Applied Spectroscopy, 1990, 44, 1711-1714.	1.2	63

#	ARTICLE	IF	CITATIONS
19	Detection of Trace Concentrations of Column III and V Hydrides by Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 1991, 45, 949-952.	1.2	29
20	Effects of High-Pressure Buffer Gases on Emission from Laser-Induced Plasmas. Applied Spectroscopy, 1991, 45, 1463-1467.	1.2	36
21	Time-resolved LIBS experiment for quantitative determination of pollutant concentrations in air. Laser and Particle Beams, 1991, 9, 633-639.	0.4	50
22	Detection of Fine Particles in Liquids by Laser Breakdown Method. Japanese Journal of Applied Physics, 1992, 31, 1514-1518.	0.8	44
23	Spectroscopic Applications of Laser-Induced Plasmas. Critical Reviews in Analytical Chemistry, 1992, 23, 143-162.	1.8	134
24	Emission Spectrochemical Analysis of Halogen Atoms Using Shock Wave Plasma Induced by TEA CO ₂ Laser.. Journal of the Spectroscopical Society of Japan, 1992, 41, 21-30.	0.0	8
25	Lasers in atomic spectroscopy: Selected applications. Microchemical Journal, 1992, 45, 1-35.	2.3	29
26	A compact TEA CO ₂ laser for field-based spectrochemical analysis of geological samples. Optics and Laser Technology, 1992, 24, 273-277.	2.2	5
27	Laser-induced plasma atomic emission spectrometry in liquid aerosols. Analytica Chimica Acta, 1992, 269, 123-128.	2.6	28
28	Time-resolved emission studies of ArF-laser-produced microplasmas. Applied Optics, 1993, 32, 939.	2.1	80
29	Chapter 1 Sampling Techniques For Air Pollutants. Techniques and Instrumentation in Analytical Chemistry, 1993, , 3-22.	0.0	6
30	Environmental monitoring of soil contaminated with heavy metals using laser-induced breakdown spectroscopy. , 0, , .		2
31	Detection of mercury in air by time-resolved laser-induced breakdown spectroscopy technique. Laser and Particle Beams, 1994, 12, 525-530.	0.4	52
32	The velocity/kinetic energy distributions of Sc and ScO and optical spectra from the laser vaporization of Sc ₂ O ₃ . Chemical Physics Letters, 1994, 218, 309-313.	1.2	6
33	Quantitative Simultaneous Elemental Determinations in Alloys Using Laser-Induced Breakdown Spectroscopy (LIBS) in an Ultra-High Vacuum. Applied Spectroscopy, 1994, 48, 58-64.	1.2	63
34	19.O.01 In-situ and on-line analytical chemistry of aerosols. Journal of Aerosol Science, 1994, 25, 289-291.	1.8	3
35	Determination of colloidal iron in water by laser-induced breakdown spectroscopy. Analytica Chimica Acta, 1995, 299, 401-405.	2.6	91
36	Influences on Concentration Measurements of Liquid Aerosols by Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 1995, 49, 569-579.	1.2	51

#	ARTICLE	IF	CITATIONS
37	Quantitative analysis of copper alloys by laser-produced plasma spectrometry. Journal of Analytical Atomic Spectrometry, 1995, 10, 643.	1.6	43
38	Spectroscopic Characterization of Laser-Produced Plasmas for In Situ Toxic Metal Monitoring. Hazardous Waste and Hazardous Materials, 1996, 13, 51-61.	0.4	34
39	Determination of an Iron Suspension in Water by Laser-Induced Breakdown Spectroscopy with Two Sequential Laser Pulses. Analytical Chemistry, 1996, 68, 2981-2986.	3.2	163
40	Trace pollutants analysis in soil by a time-resolved laser-induced breakdown spectroscopy technique. Applied Physics B: Lasers and Optics, 1996, 63, 185-190.	1.1	99
41	In Situ Determination of Lead in Paint by Laser-Induced Breakdown Spectroscopy Using a Fiber-Optic Probe. Analytical Chemistry, 1996, 68, 977-981.	3.2	119
42	Influences on detectability of heavy metals in soils by laser-induced breakdown spectroscopy. , 0, , .		3
43	Laser induced breakdown spectroscopy (LIBS) as an analytical tool for the detection of metal ions in aqueous solutions. Fresenius' Journal of Analytical Chemistry, 1996, 355, 16-20.	1.5	148
44	Element-specific determination of chlorine in gases by Laser-Induced-Breakdown-Spectroscopy (LIBS). Fresenius' Journal of Analytical Chemistry, 1996, 356, 21-26.	1.5	58
45	Detection of pollutants in liquids by laser induced breakdown spectroscopy technique. , 0, , .		6
46	Metal Emissions Monitoring Using Excimer Laser Fragmentation-Fluorescence Spectroscopy. Combustion Science and Technology, 1996, 118, 169-188.	1.2	32
47	Characteristics of a laser plasma induced by irradiation of a normal-oscillation YAG laser at low pressures. Journal Physics D: Applied Physics, 1997, 30, 3335-3345.	1.3	36
48	Applications of Laser-Induced Breakdown Spectrometry. Applied Spectroscopy Reviews, 1997, 32, 183-235.	3.4	244
49	Fundamentals and Applications of Laser-Induced Breakdown Spectroscopy. Critical Reviews in Analytical Chemistry, 1997, 27, 257-290.	1.8	438
50	Trace Element Analysis in Water by the Laser-Induced Breakdown Spectroscopy Technique. Applied Spectroscopy, 1997, 51, 1102-1105.	1.2	166
51	Laser-induced breakdown in aqueous media. Progress in Quantum Electronics, 1997, 21, 155-248.	3.5	288
52	Subsurface heavy-metal detection with the use of a laser-induced breakdown spectroscopy (LIBS) penetrometer system. Field Analytical Chemistry and Technology, 1998, 2, 75-87.	0.9	30
53	Depth-resolved analysis by laser-induced breakdown spectrometry at reduced pressure. Surface and Interface Analysis, 1998, 26, 995-1000.	0.8	54
54	Laser-Induced Breakdown Spectrometry. The Chemical Educator, 1998, 3, 1-7.	0.0	12

#	ARTICLE	IF	CITATIONS
55	Investigation of lamp chemical composition by laser-induced breakdown spectroscopy. , 0, , .		0
56	Laser-Induced Breakdown Spectroscopy for Real-Time Detection of Halon Alternative Agents. Analytical Chemistry, 1998, 70, 1186-1191.	3.2	50
57	Laser-Induced Breakdown Spectroscopy of Liquids: Aqueous Solutions of Nickel and Chlorinated Hydrocarbons. Applied Spectroscopy, 1998, 52, 438-443.	1.2	78
58	Laser-Induced Breakdown Spectroscopy for Polymer Identification. Applied Spectroscopy, 1998, 52, 456-461.	1.2	188
59	Time-Resolved Laser-Induced Breakdown Spectroscopy: Application for Qualitative and Quantitative Detection of Fluorine, Chlorine, Sulfur, and Carbon in Air. Applied Spectroscopy, 1998, 52, 1321-1327.	1.2	171
60	Analysis of liquid samples using laser-induced breakdown spectroscopy. , 1998, 3504, 299.		0
61	Spectroscopic analysis of fire suppressants and refrigerants by laser-induced breakdown spectroscopy. Applied Optics, 1999, 38, 1476.	2.1	38
62	New Procedure for Quantitative Elemental Analysis by Laser-Induced Plasma Spectroscopy. Applied Spectroscopy, 1999, 53, 960-964.	1.2	736
63	Determination of Impurities in Uranium and Plutonium Dioxides by Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 1999, 53, 1111-1117.	1.2	99
64	Field instrumentation in atomic spectroscopy. Microchemical Journal, 2000, 66, 115-145.	2.3	95
65	Shock wave plasma induced by TEA CO ₂ laser bombardment on glass samples at high pressures. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1591-1599.	1.5	28
66	Subtarget Effect on Laser Plasma Generated by Transversely Excited Atmospheric CO ₂ Laser at Atmospheric Gas Pressure. Japanese Journal of Applied Physics, 2000, 39, 2643-2646.	0.8	30
67	Application of laser-induced breakdown spectroscopy to <i>in situ</i> analysis of liquid samples. Optical Engineering, 2000, 39, 2248.	0.5	202
68	Analysis of Sulfuric Acid Aerosols by Laser-Induced Breakdown Spectroscopy and Laser-Induced Photofragmentation. Applied Spectroscopy, 2000, 54, 1805-1816.	1.2	34
69	Determination of F, Cl, and Br in Solid Organic Compounds by Laser-Induced Plasma Spectroscopy. Applied Spectroscopy, 2001, 55, 739-744.	1.2	84
70	Detection of Gaseous and Particulate Fluorides by Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2001, 55, 1455-1461.	1.2	54
71	Development of a method for automated quantitative analysis of ores using LIBS. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 707-714.	1.5	101
72	Analysis of environmental lead contamination: comparison of LIBS field and laboratory instruments. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 777-793.	1.5	150

#	ARTICLE	IF	CITATIONS
73	Low-Background Laser Plasma Induced by Nd-YAG Laser at Low Pressures. Japanese Journal of Applied Physics, 2001, 40, 188-194.	0.8	3
74	Comprehensive study on the pressure dependence of shock wave plasma generation under TEA CO ₂ laser bombardment on metal sample. Journal Physics D: Applied Physics, 2001, 34, 758-771.	1.3	25
75	Laser-assisted solid sampling. Techniques and Instrumentation in Analytical Chemistry, 2002, , 435-499.	0.0	0
76	Evaluation of the Potential of Laser-Induced Breakdown Spectroscopy for Detection of Trace Element in Liquid. Journal of the Air and Waste Management Association, 2002, 52, 1307-1315.	0.9	84
77	From LASER to LIBS, the path of technology development. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1109-1113.	1.5	241
78	Panoramic laser-induced breakdown spectrometry of water. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1141-1153.	1.5	116
79	Diagnostics of high-temperature steel pipes in industrial environment by laser-induced breakdown spectroscopy technique: the LIBSGRAIN project. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1181-1192.	1.5	50
80	Quantitative analysis of pharmaceutical products by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1131-1140.	1.5	184
81	Laser-induced breakdown spectroscopy of molten aluminum alloy. Applied Optics, 2003, 42, 2078.	2.1	103
82	Laser-induced plasma spectroscopy to as low as 130 nm when a gas-purged spectrograph and ICCD detection are used. Applied Optics, 2003, 42, 6036.	2.1	15
83	Super-sensitive detection of sodium in water using dual-pulse laser-induced breakdown spectroscopy. Bunseki Kagaku, 2003, 52, 425-431.	0.1	2
84	A comparison of elemental analysis techniques requiring no sample preparation: scanning electron microscopy and laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2004, 19, 929.	1.6	5
85	Determination of Cl/C and Br/C ratios in pure organic solids using laser-induced plasma spectroscopy in near vacuum ultraviolet. Journal of Analytical Atomic Spectrometry, 2004, 19, 474-478.	1.6	31
86	Sensing of Halocarbons Using Femtosecond Laser-Induced Fluorescence. Analytical Chemistry, 2004, 76, 4799-4805.	3.2	80
87	Characteristics of Induced Current Due to Laser Plasma and Its Application to Laser Processing Monitoring. Japanese Journal of Applied Physics, 2004, 43, 1018-1027.	0.8	14
88	Laser in Environmental and Life Sciences. , 2004, , .		11
89	Laser-induced breakdown spectroscopy as an analytical tool for equivalence ratio measurement in methane-air premixed flames. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1092-1097.	1.5	69
90	Controlled inert gas environment for enhanced chlorine and fluorine detection in the visible and near-infrared by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1132-1139.	1.5	85

#	ARTICLE	IF	CITATIONS
91	Quantitative local equivalence ratio determination in laminar premixed methane-air flames by laser induced breakdown spectroscopy (LIBS). <i>Chemical Physics Letters</i> , 2005, 404, 309-314.	1.2	70
92	Laser-induced breakdown spectroscopy (LIBS): a promising versatile chemical sensor technology for hazardous material detection. <i>IEEE Sensors Journal</i> , 2005, 5, 681-689.	2.4	153
93	Glass-batch composition monitoring by laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2005, 44, 3668.	2.1	18
94	Laser-induced breakdown spectroscopy – An emerging chemical sensor technology for real-time field-portable, geochemical, mineralogical, and environmental applications. <i>Applied Geochemistry</i> , 2006, 21, 730-747.	1.4	170
95	Detection of heavy metals in Arabian crude oil residue using laser induced breakdown spectroscopy. <i>Talanta</i> , 2006, 69, 1072-1078.	2.9	114
96	From sample to signal in laser-induced breakdown spectroscopy: a complex route to quantitative analysis. , 0, , 122-170.		3
98	History and fundamentals of LIBS. , 0, , 1-39.		7
99	Design, construction and assessment of a field-deployable laser-induced breakdown spectrometer for remote elemental sensing. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 88-95.	1.5	75
100	Near-IR bromine Laser Induced Breakdown Spectroscopy detection and ambient gas effects on emission line asymmetric Stark broadening and shift. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1270-1278.	1.5	22
101	Evaluation of self-absorption of manganese emission lines in Laser Induced Breakdown Spectroscopy measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1294-1303.	1.5	116
105	Remote femtosecond laser induced breakdown spectroscopy (LIBS) in a standoff detection regime. , 2006, , .		11
108	Physics of Plasma in Laser-Induced Breakdown Spectroscopy. , 2007, , 83-111.		15
109	Characterization of near-infrared low energy ultra-short laser pulses for portable applications of laser induced breakdown spectroscopy. <i>Optics Express</i> , 2007, 15, 14044.	1.7	13
110	LIBS Application to Off-Gas Measurement. , 2007, , 199-221.		1
111	Promising Spectroscopic Techniques for the Portable Detection of Condensed-Phase Contaminants on Surfaces. <i>Applied Spectroscopy Reviews</i> , 2007, 42, 287-343.	3.4	16
112	Instrumentation for Laser-Induced Breakdown Spectroscopy. , 2007, , 113-133.		4
113	LIBS for the Analysis of Chemical and Biological Hazards. , 2007, , 313-324.		0
114	Laser-induced breakdown spectroscopy at a water/gas interface: A study of bath gas-dependent molecular species. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1348-1360.	1.5	45

#	ARTICLE	IF	CITATIONS
115	Hydrogen analysis in solid samples by utilizing He metastable atoms induced by TEA CO ₂ laser plasma in He gas at 1Âatm. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1379-1389.	1.5	32
116	Time-resolved laser-induced breakdown spectroscopy of aluminum. Optoelectronics Letters, 2008, 4, 369-370.	0.4	2
117	On-line monitoring of composite nanoparticles synthesized in a pre-industrial laser pyrolysis reactor using Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1183-1190.	1.5	37
118	Laser-induced breakdown spectroscopy measurement in methane and biodiesel flames using an ungated detector. Applied Optics, 2008, 47, G144.	2.1	36
119	Laser-Induced Breakdown Spectroscopy for Analysis of Chemically Etched Polytetrafluoroethylene. Applied Spectroscopy, 2008, 62, 773-777.	1.2	9
120	New Method of Laser Plasma Spectroscopy for Metal Samples Using Metastable He Atoms Induced by Transversely Excited Atmospheric-Pressure CO ₂ Laser in He Gas at 1 atm. Japanese Journal of Applied Physics, 2008, 47, 1595-1601.	0.8	12
121	Laser-induced breakdown spectroscopy in reactive flows of hydrocarbon-air mixtures. Applied Physics Letters, 2008, 92, .	1.5	53
122	Multi-instrumental Analysis of Tissues of Sunflower Plants Treated with Silver(I) Ions â€“ Plants as Bioindicators of Environmental Pollution. Sensors, 2008, 8, 445-463.	2.1	70
123	On-line determination of nanometric and sub-micrometric particle physicochemical characteristics using spectral imaging-aided Laser-Induced Breakdown Spectroscopy coupled with a Scanning Mobility Particle Sizer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 1141-1152.	1.5	20
124	Quantitative analysis of multi-elements in steel samples by laser-induced breakdown spectroscopy. Proceedings of SPIE, 2009, , .	0.8	1
125	Stoichiometric analysis of compositionally graded combinatorial amorphous thin film oxides using laser-induced breakdown spectroscopy. Review of Scientific Instruments, 2010, 81, 073103.	0.6	14
126	The development of fieldable laser-induced breakdown spectrometer: No limits on the horizon. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 975-990.	1.5	163
127	LIBS in Industry: Sparks Fly. , 2010, , .		2
128	Detection of chlorine with concentration of 018 kg/m ³ in concrete by laser-induced breakdown spectroscopy. Applied Optics, 2010, 49, C181.	2.1	27
129	Quantitative analysis of toxic metals lead and cadmium in water jet by laser-induced breakdown spectroscopy. Applied Optics, 2011, 50, 1227.	2.1	59
130	Characterization of laser induced breakdown plasmas used for measurements of arsenic, antimony and selenium hydrides. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 754-760.	1.5	19
131	Direct Measurements of Sample Heating by a Laser-Induced Air Plasma in Pre-Ablation Spark Dual-Pulse Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2012, 66, 869-874.	1.2	12
132	Fast and Environmentally Friendly Quantitative Analysis of Active Agents in Anti-Diabetic Tablets by an Alternative Laser-Induced Breakdown Spectroscopy (LIBS) Method and Comparison to a Validated Reversed-Phase High-Performance Liquid Chromatography (RP-HPLC) Method. Applied Spectroscopy, 2012, 66, 1294-1301.	1.2	5

#	ARTICLE	IF	CITATIONS
133	Evolution of Al plasma generated by Nd ³⁺ :YAG laser radiation at the fundamental wavelength. <i>Applied Physics B: Lasers and Optics</i> , 2012, 108, 665-673.	1.1	6
134	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. <i>Space Science Reviews</i> , 2012, 170, 95-166.	3.7	372
135	Exploring laser-induced breakdown spectroscopy for nuclear materials analysis and in-situ applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 177-183.	1.5	70
136	Generation and expansion of laser-induced plasma as a spectroscopic emission source. <i>Frontiers of Physics</i> , 2012, 7, 649-669.	2.4	53
137	Laser-induced plasma and laser-induced breakdown spectroscopy (LIBS) in China: The challenge and the opportunity. <i>Frontiers of Physics</i> , 2012, 7, 647-648.	2.4	17
139	Laboratory feasibility study of fusion vessel inner wall chemical analysis by Laser Induced Breakdown Spectroscopy. <i>Chemical Physics</i> , 2012, 398, 228-232.	0.9	22
140	Spectral evolution of nano-second laser interaction with Ti target in Air. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 509-518.	1.1	12
142	Trace detection of light elements by laser-induced breakdown spectroscopy (LIBS): Applications to non-conducting materials. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2013, 115, 574-590.	0.2	22
143	The use of laser-induced breakdown spectroscopy for the determination of fluorine concentration in glass ionomer cement. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 26-31.	1.5	8
144	Measurement of concentration of chlorine attached to a stainless-steel canister material using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 74-80.	1.5	32
147	Laser induced breakdown spectroscopy (LIBS). , 2013, , 551-571.		5
148	Ring-Oven Based Preconcentration Technique for Microanalysis: Simultaneous Determination of Na, Fe, and Cu in Fuel Ethanol by Laser Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 1547-1554.	3.2	56
149	Feasibility of Laser-Induced Breakdown Spectroscopy for the Study of the Temporal Distribution of Trace Elements Trapped in Snow Collected from Greater Himalayan Range. <i>Spectroscopy Letters</i> , 2013, 46, 384-390.	0.5	3
150	Reducing Quantitative Fluctuation of Laser-Induced Breakdown Spectroscopy by Kalman Filtering. <i>Applied Mechanics and Materials</i> , 0, 333-335, 243-247.	0.2	2
151	From Safe Nanomanufacturing to Nanosafe-by-Design processes. <i>Journal of Physics: Conference Series</i> , 2013, 429, 012054.	0.3	6
152	Laser-induced breakdown spectroscopy: technique, new features, and detection limits of trace elements in Al base alloy. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 173-183.	1.1	15
153	Characterization of laser induced tantalum plasma by spatio-temporal resolved optical emission spectroscopy. <i>Optik</i> , 2014, 125, 2327-2331.	1.4	8
154	Spectral evolution of nano-second laser interaction with Ti target in nitrogen ambient gas. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 343-352.	1.1	4

#	ARTICLE	IF	CITATIONS
155	Sensitive detection of chlorine in iron oxide by single pulse and dual pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 183-190.	1.5	25
156	Laser Induced Breakdown Spectroscopy in archeometry: A review of its application and future perspectives. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 201-209.	1.5	67
157	Exploration of a 3D nano-channel porous membrane material combined with laser-induced breakdown spectrometry for fast and sensitive heavy metal detection of solution samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 2302-2308.	1.6	25
158	Quantification of fluorite mass-content in powdered ores using a Laser-Induced Breakdown Spectroscopy method based on the detection of minor elements and CaF molecular bands. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 123-128.	1.5	42
159	Spectroscopic Evolution of Plasma Produced by Nd-YAG Laser. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1674-1684.	0.6	2
160	Sensitive detection of iodine by low pressure and short pulse laser-induced breakdown spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1082-1089.	1.6	14
161	Fluorine analysis using Laser Induced Breakdown Spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1238.	1.6	51
162	Elemental analysis of halogens using molecular emission by laser-induced breakdown spectroscopy in air. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 39-47.	1.5	87
163	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 452-482.	1.5	51
164	Application of spatial confinement for gas analysis using laser-induced breakdown spectroscopy to improve signal stability. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 922-928.	1.6	45
165	First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. <i>Geophysical Research Letters</i> , 2015, 42, 1020-1028.	1.5	107
166	Quantitative mixture fraction measurements in combustion system via laser induced breakdown spectroscopy. <i>Optics and Laser Technology</i> , 2015, 65, 43-49.	2.2	15
167	Composition of conglomerates analyzed by the Curiosity rover: Implications for Gale Crater crust and sediment sources. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 353-387.	1.5	53
168	Quantification of fluorine traces in solid samples using CaF molecular emission bands in atmospheric air Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 123, 157-162.	1.5	36
169	Laser-induced breakdown emission in hydrocarbon fuel mixtures. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 155201.	1.3	11
170	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 863-889.	1.6	134
171	Laser-induced breakdown spectroscopy system for remote measurement of salt in a narrow gap. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 116, 51-57.	1.5	17
172	Recalibration of the Mars Science Laboratory ChemCam instrument with an expanded geochemical database. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 64-85.	1.5	137

#	ARTICLE	IF	CITATIONS
173	A novel approach for quantitative LIBS fluorine analysis using CaF emission in calcium-free samples. Journal of Analytical Atomic Spectrometry, 2017, 32, 162-166.	1.6	41
174	ST-LIBS for heavy element detection in complex matrices. , 2017, , .		1
175	Detection of fluorine using laser-induced breakdown spectroscopy and Raman spectroscopy. Journal of Analytical Atomic Spectrometry, 2017, 32, 1966-1974.	1.6	35
176	Spatially resolved laser-induced breakdown spectroscopy in laminar premixed methane-air flames. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 136, 8-15.	1.5	20
177	New developed burner towards stable lean turbulent partially premixed flames. Fuel, 2018, 220, 942-957.	3.4	5
178	Laser-Induced Breakdown Spectroscopy (LIBS): Fast, Effective, and Agile Leading Edge Analytical Technology. Applied Spectroscopy, 2018, 72, 35-50.	1.2	39
179	Optical tweezers assisted controllable formation and precise manipulation of microdroplet. Applied Physics Express, 2019, 12, 117001.	1.1	2
180	Optimisation of fast quantification of fluorine content using handheld laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 158, 105628.	1.5	30
181	Theory and numerical model of the properties of plasma plume isothermal expansion during nanosecond laser ablation of a bronze-bonded diamond grinding wheel. Applied Surface Science, 2019, 475, 410-420.	3.1	6
182	In-situ K-Ar dating on Mars based on UV-Laser ablation coupled with a LIBS-QMS system: Development, calibration and application of the KArMars instrument. Chemical Geology, 2019, 506, 1-16.	1.4	11
183	Lean partially premixed turbulent flame equivalence ratio measurements using laser-induced breakdown spectroscopy. Fuel, 2019, 237, 320-334.	3.4	11
184	Expansion property of plasma plume for laser ablation of materials. Journal of Alloys and Compounds, 2019, 773, 1075-1088.	2.8	13
185	Review on recent advances in analytical applications of molecular emission and modelling. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 173, 105989.	1.5	22
186	Physics and dynamics of plasma in laser-induced breakdown spectroscopy. , 2020, , 71-106.		7
187	Instrumentation for LIBS and recent advances. , 2020, , 107-136.		8
188	Breaking the boundaries in spectrometry. Molecular analysis with atomic spectrometric techniques. TrAC - Trends in Analytical Chemistry, 2020, 129, 115955.	5.8	23
189	Amelioration in the Detection of Chlorine Using Electric Field Assisted LIBS. Plasma Chemistry and Plasma Processing, 2020, 40, 809-818.	1.1	3
190	Investigation into the Effect of Increasing Target Temperature and the Size of Cavity Confinements on Laser-Induced Plasmas. Metals, 2020, 10, 393.	1.0	5

#	ARTICLE	IF	CITATIONS
191	Green synthesized silver NPs: fluorescence sensor for Cl ⁻ ions in aqueous solution in biological pH and cell viability study. SN Applied Sciences, 2020, 2, 1.	1.5	3
192	Influence of cavity and magnetic confinements on the signal enhancement and plasma parameters of laser-induced Mg and Ti plasmas. Laser and Particle Beams, 2020, 38, 61-72.	0.4	3
193	Determination of fluorine in copper ore using laser-induced breakdown spectroscopy assisted by the SrF molecular emission band. Journal of Analytical Atomic Spectrometry, 2020, 35, 754-761.	1.6	19
194	Spatio-temporal distribution of atomic and molecular excited species in Laser-Induced Breakdown Spectroscopy: Potential implications on the determination of halogens. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 168, 105848.	1.5	13
195	Sensitive analysis of fluorine and chlorine elements in water solution using laser-induced breakdown spectroscopy assisted with molecular synthesis. Talanta, 2021, 224, 121784.	2.9	23
196	Determination of fluorine in copper concentrate via CaF molecules using laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2021, 36, 1735-1741.	1.6	2
198	Laser-Based Detection of Atmospheric Halocarbons. , 2006, , 421-443.		1
199	Laser-induced breakdown spectrometry. Advances in Atomic Spectroscopy, 1999, , 235-288.	0.8	5
200	New Data on Activity Coefficients of Potassium, Nitrate, and Chloride Ions in Aqueous Solutions of KNO ₃ and KCl by Ion Selective Electrodes. ISRN Chemical Engineering, 2012, 2012, 1-5.	1.2	12
201	Chemical Characterization Using Laser-Induced Breakdown Spectroscopy of Products Released from Lithium-Ion Battery Cells at Thermal Runaway Conditions. Applied Spectroscopy, 2022, 76, 967-977.	1.2	4
202	Low-Cost Real-Time Gas Monitoring Using a Laser Plasma Induced by a Third Harmonic Q-Switched Nd-YAG Laser. ITB Journal of Engineering Science, 2005, 37, 91-106.	0.1	0
203	Automated Analysis of Persistent Organic Pollutants in the Gas Phase by Laser Ionization Mass Spectrometry. Journal of the Mass Spectrometry Society of Japan, 2010, 58, 35-46.	0.0	0
204	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. , 2012, , 95-166.		2
205	Application of Laser-Induced Breakdown Spectroscopy for Diagnosis of Degradation of Concrete Structure. The Review of Laser Engineering, 2014, 42, 887.	0.0	0
206	Applications of Laser-Induced Breakdown Spectroscopy and Laser Breakdown Time-of-Flight Mass Spectrometry to Thermal Power Plants. The Review of Laser Engineering, 2014, 42, 903.	0.0	0
207	Detection of Fluorine with a Shock Wave Plasma Induced by a TEA CO ₂ Laser.. The Review of Laser Engineering, 1992, 20, 31-37.	0.0	1
208	Laserverfahren in der Umweltanalytik. Analytiker-Taschenbuch, 1997, , 157-272.	0.2	1
209	Direct and near real-time determination of metals in air by impactation-graphite furnace atomic absorption spectrometry. Advances in Atomic Spectroscopy, 1997, , 203-224.	0.8	1

#	ARTICLE	IF	CITATIONS
210	Spectroscopic study on the laser-induced breakdown flame plasma. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 045202.	0.2	2
211	Investigation of zirconium oxide growth in nuclear fuel element claddings by micro-Raman, ellipsometry, and Laser-Induced Breakdown Spectroscopy. Vibrational Spectroscopy, 2020, 111, 103134.	1.2	2
212	Halides formation dynamics in nanosecond and femtosecond laser-induced breakdown spectroscopy. Plasma Physics and Controlled Fusion, 2022, 64, 054010.	0.9	4
213	A critical evaluation of the chlorine quantification method based on molecular emission detection in LIBS. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 190, 106390.	1.5	9
214	Approach to using 3D laser-induced breakdown spectroscopy (LIBS) data to explore the interaction of FLiNaK and FLiBe molten salts with nuclear-grade graphite. Journal of Analytical Atomic Spectrometry, 2022, 37, 1629-1641.	1.6	7
215	Enhancement of Laser-Induced Breakdown Spectral Signal by Auxiliary Laser Heating Samples. Instrumentation and Equipments, 2022, 10, 73-77.	0.1	0
216	Determination of fluorine distribution in shark teeth by laser-induced breakdown spectroscopy. Metallomics, 2022, 14, .	1.0	6
217	Nebulization assisted molecular LIBS for sensitive and fast fluorine determination in aqueous solutions. Journal of Analytical Atomic Spectrometry, 2023, 38, 80-89.	1.6	4
218	Improving Cl determination in cements by molecular LIBS using noble gas-enriched atmospheres and new approaches for interference removal. Journal of Analytical Atomic Spectrometry, 2023, 38, 325-332.	1.6	2
219	Application of laser induced plasma spectroscopy for air pollution monitoring. , 2022, , .		0
220	Laser Induced Breakdown Spectroscopy (LIBS) for Real-Time Detection of Halon Alternative Agents. , 1996, , .		0
221	Spectroscopic Studies of Laser-Generated Microplasmas. , 1992, , .		0
222	Applications of Laser-Induced Breakdown Spectroscopy. , 1985, , .		0