

# J Javier Laserna

## List of Publications by Year in descending order

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245  
papers

8,618  
citations

44042

48  
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77  
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249  
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249  
docs citations

249  
times ranked

3928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 640-669.	3.2	429
2	Experimental determination of laser induced breakdown thresholds of metals under nanosecond Q-switched laser operation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998, 53, 723-730.	1.5	256
3	Laser-induced plasma spectrometry: truly a surface analytical tool. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 147-161.	1.5	208
4	Test of a stand-off laser-induced breakdown spectroscopy sensor for the detection of explosive residues on solid surfaces. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 55-60.	1.6	208
5	Platinum-group elements: quantification in collected exhaust fumes and studies of catalyst surfaces. <i>Science of the Total Environment</i> , 2000, 257, 1-15.	3.9	206
6	The development of fieldable laser-induced breakdown spectrometer: No limits on the horizon. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 975-990.	1.5	163
7	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	3.7	160
8	New challenges and insights in the detection and spectral identification of organic explosives by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 12-20.	1.5	144
9	Diagnostics of silicon plasmas produced by visible nanosecond laser ablation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 275-288.	1.5	129
10	Simultaneous Raman Spectroscopy~Laser-Induced Breakdown Spectroscopy for Instant Standoff Analysis of Explosives Using a Mobile Integrated Sensor Platform. <i>Analytical Chemistry</i> , 2010, 82, 1389-1400.	3.2	126
11	New Raman~Laser-Induced Breakdown Spectroscopy Identity of Explosives Using Parametric Data Fusion on an Integrated Sensing Platform. <i>Analytical Chemistry</i> , 2011, 83, 6275-6285.	3.2	122
12	Chemical analysis of archeological materials in submarine environments using laser-induced breakdown spectroscopy. On-site trials in the Mediterranean Sea. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 137-143.	1.5	107
13	Quantitative analysis of low-alloy steel by microchip laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 552.	1.6	101
14	Nanometric range depth-resolved analysis of coated-steels using laser-induced breakdown spectrometry with a 308 nm collimated beam. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 793-797.	1.6	94
15	Effect of plasma shielding on laser ablation rate of pure metals at reduced pressure. <i>Surface and Interface Analysis</i> , 1999, 27, 1009-1015.	0.8	94
16	Mapping of Platinum Group Metals in Automotive Exhaust Three-Way Catalysts Using Laser-Induced Breakdown Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 4385-4391.	3.2	89
17	Infrared laser ablation and atomic emission spectrometry of stainless steel at high temperatures. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1883-1887.	1.6	86
18	Open-path laser-induced plasma spectrometry for remote analytical measurements on solid surfaces. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 591-599.	1.5	85

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19	Combining fingerprinting capability with trace analytical detection: surface-enhanced raman spectrometry. <i>Analytica Chimica Acta</i> , 1993, 283, 607-622.	2.6	82
20	Depth-resolved Analysis of Multilayered Samples by Laser-induced Breakdown Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 859-862.	1.6	80
21	Full automation of a laser-induced breakdown spectrometer for quality assessment in the steel industry with sample handling, surface preparation and quantitative analysis capabilities. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1321-1327.	1.6	80
22	Chronocultural sorting of archaeological bronze objects using laser-induced breakdown spectrometry. <i>Analytica Chimica Acta</i> , 2005, 554, 136-143.	2.6	80
23	Vibrational emission analysis of the CN molecules in laser-induced breakdown spectroscopy of organic compounds. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 89, 77-83.	1.5	77
24	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
25	Elemental analysis of materials in an underwater archeological shipwreck using a novel remote laser-induced breakdown spectroscopy system. <i>Talanta</i> , 2015, 137, 182-188.	2.9	74
26	Multielemental Chemical Imaging Using Laser-Induced Breakdown Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2871-2876.	3.2	70
27	Analytical control of liquid steel in an induction melting furnace using a remote laser induced plasma spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 462.	1.6	68
28	Laser-Induced Breakdown Spectroscopy (LIBS) of Organic Compounds: A Review. <i>Applied Spectroscopy</i> , 2019, 73, 963-1011.	1.2	68
29	Standoff detection of explosives: critical comparison for ensuing options on Raman spectroscopyâ€“LIBS sensor fusion. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3353-3365.	1.9	67
30	In Situ Analytical Assessment and Chemical Imaging of Historical Buildings Using a Man-Portable Laser System. <i>Applied Spectroscopy</i> , 2007, 61, 558-564.	1.2	65
31	Surface-enhanced Raman analysis of sulfa drugs on colloidal silver dispersion. <i>Analytical Chemistry</i> , 1990, 62, 689-693.	3.2	63
32	Irradiance-dependent depth profiling of layered materials using laser-induced plasma spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 1317-1321.	1.6	63
33	Spectroscopic diagnostics on CW-laser welding plasmas of aluminum alloys. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 651-659.	1.5	62
34	Portable instrument and analytical method using laser-induced breakdown spectrometry for in situ characterization of speleothems in karstic caves. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 295-300.	1.6	62
35	Real time and in situ determination of lead in road sediments using a man-portable laser-induced breakdown spectroscopy analyzer. <i>Analytica Chimica Acta</i> , 2009, 633, 38-42.	2.6	62
36	Analysis of explosive residues in human fingerprints using optical catapultingâ€“laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1445.	1.6	62

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37	Standoff LIBS detection of explosive residues behind a barrier. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1123.	1.6	60
38	Depth Profiling of Phosphorus in Photonic-Grade Silicon Using Laser-Induced Breakdown Spectrometry. <i>Applied Spectroscopy</i> , 1998, 52, 444-448.	1.2	59
39	Flow-injection analysis and liquid chromatography: surface-enhanced Raman spectrometry detection by using a windowless flow cell. <i>Analytica Chimica Acta</i> , 1996, 318, 203-210.	2.6	57
40	Angle-Resolved Laser-Induced Breakdown Spectrometry for Depth Profiling of Coated Materials. <i>Applied Spectroscopy</i> , 2000, 54, 1027-1031.	1.2	57
41	Three-dimensional distribution analysis of platinum, palladium and rhodium in auto catalytic converters using imaging-mode laser-induced breakdown spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 177-185.	1.5	55
42	Acoustic and optical emission during laser-induced plasma formation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1395-1401.	1.5	55
43	Laser-Induced Breakdown Spectrometry of Titanium Dioxide Antireflection Coatings in Photovoltaic Cells. <i>Analytical Chemistry</i> , 1996, 68, 1095-1100.	3.2	54
44	Depth-resolved analysis by laser-induced breakdown spectrometry at reduced pressure. <i>Surface and Interface Analysis</i> , 1998, 26, 995-1000.	0.8	54
45	Remote laser-induced plasma spectrometry for elemental analysis of samples of environmental interest. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1479-1484.	1.6	53
46	Surface-enhanced Raman spectrometry on a silver-coated filter paper substrate. <i>Analytica Chimica Acta</i> , 1988, 208, 21-30.	2.6	51
47	Space and time-resolved laser-induced breakdown spectroscopy using charge-coupled device detection. <i>Fresenius' Journal of Analytical Chemistry</i> , 1996, 355, 10-15.	1.5	49
48	Study on the effect of beam propagation through atmospheric turbulence on standoff nanosecond laser induced breakdown spectroscopy measurements. <i>Optics Express</i> , 2009, 17, 10265.	1.7	49
49	Evaluating the use of standoff LIBS in architectural heritage: surveying the Cathedral of M <span>á</span> jlaga. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 810.	1.6	49
50	Chemical characterization of single micro- and nano-particles by optical catapulting <span>â</span> “optical trapping <span>â</span> “laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 78-85.	1.5	49
51	Dual-Spectroscopy Platform for the Surveillance of Mars Mineralogy Using a Decisions Fusion Architecture on Simultaneous LIBS-Raman Data. <i>Analytical Chemistry</i> , 2018, 90, 2079-2087.	3.2	49
52	Mixture analysis and quantitative determination of nitrogen-containing organic molecules by surface-enhanced Raman spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 1697-1701.	3.2	48
53	Spatial distribution profiles of magnesium and strontium in speleothems using laser-induced breakdown spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 119-123.	1.5	48
54	Remote sensing instrument for solid samples based on open-path atomic emission spectrometry. <i>Review of Scientific Instruments</i> , 2004, 75, 2068-2074.	0.6	48

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55	Insights in the laser-induced breakdown spectroscopy signal generation underwater using dual pulse excitation " Part I: Vapor bubble, shockwaves and plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 82, 42-49.	1.5	48
56	A study of underwater stand-off laser-induced breakdown spectroscopy for chemical analysis of objects in the deep ocean. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1050-1056.	1.6	48
57	Laser-induced breakdown spectroscopy of silicate, vanadate and sulfide rocks. <i>Talanta</i> , 1996, 43, 1149-1154.	2.9	47
58	Sensing Signatures Mediated by Chemical Structure of Molecular Solids in Laser-Induced Plasmas. <i>Analytical Chemistry</i> , 2015, 87, 2794-2801.	3.2	47
59	Man-Portable Laser-Induced Breakdown Spectroscopy System for in <i>&lt;i&gt;Situ&lt;/i&gt;</i> Characterization of Karstic Formations. <i>Applied Spectroscopy</i> , 2008, 62, 1250-1255.	1.2	46
60	Direct determination of the nutrient profile in plant materials by femtosecond laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 876, 26-38.	2.6	46
61	Identification of stimulant drugs by surface-enhanced Raman spectrometry on colloidal silver. <i>Vibrational Spectroscopy</i> , 1991, 2, 145-154.	1.2	45
62	Surface and tomographic distribution of carbon impurities in photonic-grade silicon using laser-induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 557-560.	1.6	45
63	Quantitative analysis of samples at high temperature with remote laser-induced breakdown spectrometry using a room-temperature calibration plot. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1034-1039.	1.5	45
64	Distribution of metal impurities in silicon wafers using imaging-mode multi-elemental laser-induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 199-204.	1.6	44
65	Advanced recognition of explosives in traces on polymer surfaces using LIBS and supervised learning classifiers. <i>Analytica Chimica Acta</i> , 2014, 806, 107-116.	2.6	44
66	Studies of sample preparation for surface-enhanced raman spectrometry on silver hydrosols. <i>Analytica Chimica Acta</i> , 1987, 200, 469-480.	2.6	43
67	Analysis by surface enhanced Raman spectrometry on silver hydrosols and silver coated filter papers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1988, 6, 599-608.	1.4	43
68	Development of a portable laser-induced plasma spectrometer with fully-automated operation and quantitative analysis capabilities. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 933-938.	1.6	43
69	Comparison of double-pulse and single-pulse laser-induced breakdown spectroscopy techniques in the analysis of powdered samples of silicate raw materials for the brick-and-tile industry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 42-50.	1.5	43
70	Spectrochemical study for the in situ detection of oil spill residues using laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2010, 683, 52-57.	2.6	43
71	Molecular signatures in femtosecond laser-induced organic plasmas: comparison with nanosecond laser ablation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2398-2408.	1.3	43
72	Adaptive approach for variable noise suppression on laser-induced breakdown spectroscopy responses using stationary wavelet transform. <i>Analytica Chimica Acta</i> , 2012, 754, 8-19.	2.6	42

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73	Multielemental analysis of prehistoric animal teeth by laser-induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry. <i>Applied Optics</i> , 2010, 49, C191.	2.1	40
74	Line-focused laser ablation for depth-profiling analysis of coated and layered materials. <i>Applied Optics</i> , 2003, 42, 6057.	2.1	39
75	Deep Ablation and Depth Profiling by Laser-Induced Breakdown Spectroscopy (LIBS) Employing Multi-Pulse Laser Excitation: Application to Galvanized Steel. <i>Applied Spectroscopy</i> , 2011, 65, 797-805.	1.2	39
76	Recognition of explosives fingerprints on objects for courier services using machine learning methods and laser-induced breakdown spectroscopy. <i>Talanta</i> , 2013, 110, 108-117.	2.9	39
77	Laser-Induced Breakdown Spectroscopy (LIBS): Fast, Effective, and Agile Leading Edge Analytical Technology. <i>Applied Spectroscopy</i> , 2018, 72, 35-50.	1.2	39
78	Microspectrometric investigation of active substrates for surface enhanced Raman scattering. <i>Analytica Chimica Acta</i> , 1990, 237, 439-450.	2.6	38
79	Direct determination of diuretic drugs in urine by capillary zone electrophoresis using fluorescence detection. <i>Biomedical Applications</i> , 1996, 687, 145-150.	1.7	38
80	Compositional Mapping of Poisoning Elements in Automobile Three-Way Catalytic Converters by Using Laser-Induced Breakdown Spectrometry. <i>Applied Spectroscopy</i> , 2001, 55, 267-272.	1.2	38
81	Remote, real-time, on-line monitoring of high-temperature samples by noninvasive open-path laser plasma spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 1144-1147.	1.9	38
82	New chemometrics in laser-induced breakdown spectroscopy for recognizing explosive residues. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 2111.	1.6	38
83	Assessment of statistical uncertainty in the quantitative analysis of solid samples in motion using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 680-687.	1.5	37
84	Location and detection of explosive-contaminated human fingerprints on distant targets using standoff laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 85, 71-77.	1.5	37
85	Spectral analysis of the acoustic emission of laser-produced plasmas. <i>Applied Optics</i> , 2003, 42, 6078.	2.1	36
86	Fast spatially resolved surface-enhanced Raman spectrometry on a silver coated filter paper using charge-coupled device detection. <i>Analytica Chimica Acta</i> , 1995, 310, 337-345.	2.6	35
87	The potential of laser-induced breakdown spectrometry for real time monitoring the laser cleaning of archaeometallurgical objects. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1191-1197.	1.5	35
88	Range-Adaptive Standoff Recognition of Explosive Fingerprints on Solid Surfaces using a Supervised Learning Method and Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 5045-5052.	3.2	35
89	Effect of surface topography in the characterization of stainless steel using laser-induced breakdown spectrometry. <i>Surface and Interface Analysis</i> , 1999, 27, 805-810.	0.8	34
90	A theoretical study of atmospheric propagation of laser and return light for stand-off laser induced breakdown spectroscopy purposes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 305-311.	1.5	34

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91	Preliminary studies on stand-off laser induced breakdown spectroscopy detection of aerosols. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 885.	1.6	34
92	Evaluation and optimization of experimental conditions for surface-enhanced Raman detection of analytes in flow injection analysis. <i>Microchemical Journal</i> , 1988, 38, 125-136.	2.3	33
93	Surface Stoichiometry of Manganin Coatings Prepared by Pulsed Laser Deposition As Described by Laser-Induced Breakdown Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 1120-1125.	3.2	33
94	Comparative analysis of layered materials using laser-induced plasma spectrometry and laser-ionization time-of-flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 923-931.	1.5	33
95	Unveiling the identity of distant targets through advanced Raman-laser-induced breakdown spectroscopy data fusion strategies. <i>Talanta</i> , 2015, 134, 627-639.	2.9	33
96	Surface-enhanced Raman spectrometry of chiral $\beta$ -blocker drugs on colloidal silver. <i>Analytica Chimica Acta</i> , 1996, 335, 87-94.	2.6	31
97	Room temperature pulsed laser deposited ZnO thin films as photoluminescence gas sensors. <i>Applied Surface Science</i> , 2012, 259, 806-810.	3.1	31
98	Fundamentals of stand-off Raman scattering spectroscopy for explosive fingerprinting. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 121-130.	1.2	31
99	Evaluation of laser-induced breakdown spectroscopy analysis potential for addressing radiological threats from a distance. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 96, 12-20.	1.5	31
100	Exploring the formation routes of diatomic hydrogenated radicals using femtosecond laser-induced breakdown spectroscopy of deuterated molecular solids. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2343-2352.	1.6	31
101	A microanalytical study of aluminium diffusion in photovoltaic cells using imaging-mode laser-induced breakdown spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1241-1248.	1.5	30
102	Surface interaction and chemical imaging in plasma spectrometry induced with a line-focused laser beam. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 601-608.	1.5	30
103	Thermal-to-plasma transitions and energy thresholds in laser ablated metals monitored by atomic emission/mass spectrometry coincidence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 948-954.	1.5	30
104	Stand-off analysis of moving targets using laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 84-87.	1.6	30
105	Laser ablation of powdered samples and analysis by means of laser-induced breakdown spectroscopy. <i>Applied Surface Science</i> , 2009, 255, 5329-5333.	3.1	30
106	Primary and recombined emitting species in laser-induced plasmas of organic explosives in controlled atmospheres. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1675-1685.	1.6	30
107	Detection of banned drugs in sport by micellar liquid chromatography. <i>Analytica Chimica Acta</i> , 1992, 259, 203-210.	2.6	29
108	Time-resolved laser-induced plasma spectrometry for determination of minor elements in steelmaking process samples. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 352-359.	1.9	29



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109	Surface-enhanced Raman spectrometry for detection in liquid chromatography using a windowless flow cell. <i>Talanta</i> , 1993, 40, 1741-1747.	2.9	28
110	Glow-Discharge-Assisted Laser-Induced Breakdown Spectroscopy: Increased Sensitivity in Solid Analysis. <i>Applied Spectroscopy</i> , 2008, 62, 1262-1267.	1.2	28
111	Quantitative analysis by surface-enhanced Raman spectrometry on silver hydrosols in a flow-injection system. <i>Talanta</i> , 1987, 34, 745-747.	2.9	27
112	Detection of atmospheric contaminants in aerosols by surface-enhanced Raman spectrometry. <i>Analytica Chimica Acta</i> , 1997, 355, 15-21.	2.6	27
113	Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices. <i>Analytica Chimica Acta</i> , 1998, 376, 255-263.	2.6	27
114	Determination of antipyrine metabolites in human plasma by solid-phase extraction and micellar liquid chromatography. <i>Analyst</i> , The, 1995, 120, 1729.	1.7	26
115	Calibration transfer method for the quantitative analysis of high-temperature materials with stand-off laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1275.	1.6	26
116	Spatial distribution of paleoclimatic proxies in stalagmite slabs using laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 868.	1.6	26
117	Atomization efficiency and photon yield in laser-induced breakdown spectroscopy analysis of single nanoparticles in an optical trap. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 75-81.	1.5	26
118	Pulsed-laser fluorescence detection in capillary zone electrophoresis of some banned substances in sport. <i>Analytica Chimica Acta</i> , 1993, 282, 687-693.	2.6	25
119	Fast Atomic Mapping of Heterogeneous Surfaces Using Microline-Imaging Laser-Induced Breakdown Spectrometry. <i>Applied Spectroscopy</i> , 2000, 54, 1429-1434.	1.2	25
120	Libraries for spectrum identification: Method of normalized coordinates versus linear correlation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 383-388.	1.5	25
121	Spectral Identification in the Attogram Regime through Laser-Induced Emission of Single Optically Trapped Nanoparticles in Air. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14178-14182.	7.2	25
122	Capillary zone electrophoresis for the rapid screening of banned drugs in sport. <i>Electrophoresis</i> , 1994, 15, 240-243.	1.3	24
123	Automated Line-Focused Laser Ablation for Mapping of Inclusions in Stainless Steel. <i>Applied Spectroscopy</i> , 2003, 57, 1461-1467.	1.2	24
124	Large area mapping of non-metallic inclusions in stainless steel by an automated system based on laser ablation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 567-575.	1.5	24
125	Real-Time Monitoring of High-Temperature Corrosion in Stainless Steels by Open-Path Laser-Induced Plasma Spectrometry. <i>Applied Spectroscopy</i> , 2004, 58, 1347-1352.	1.2	24
126	Alternative Statistical Methods for Spectral Data Processing: Applications to Laser-Induced Breakdown Spectroscopy of Gaseous and Aerosol Systems. <i>Applied Spectroscopy</i> , 2008, 62, 1144-1152.	1.2	24



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127	Spatial distribution of catalytically active elements and deactivants in diesel-engine automobile converters by laser-induced plasma spectrometry. Electronic Supplementary Information available: spectra corresponding to the washcoat and cordierite. See <a href="http://www.rsc.org/suppdata/ja/b2/b200975g">http://www.rsc.org/suppdata/ja/b2/b200975g</a> . Journal of Analytical Atomic Spectrometry, 2002, 17, 549-551.	1.6	23
128	Laser-induced plasma spectroscopy of organic compounds. Understanding fragmentation processes using ion-photon coincidence measurements. Journal of Analytical Atomic Spectrometry, 2013, 28, 1377.	1.6	22
129	Surface-enhanced Raman spectrometry on a silver substrate prepared by the nitric acid etching method. Analytica Chimica Acta, 1994, 291, 147-153.	2.6	21
130	Applications of laser-induced breakdown spectrometry (LIBS) in surface analysis. Analytical and Bioanalytical Chemistry, 1996, 355, 909-912.	1.9	21
131	Removal of Air Interference in Laser-induced Breakdown Spectrometry Monitored by Spatially and Temporally Resolved Charge-coupled Device Measurements. Journal of Analytical Atomic Spectrometry, 1997, 12, 441-444.	1.6	21
132	Depth profile analysis of layered samples using glow discharge assisted Laser-induced Breakdown Spectrometry (GD-LIBS). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 378-383.	1.5	21
133	At-line monitoring of continuous casting sequences of steel using discriminant function analysis and dual-pulse laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2017, 32, 1119-1128.	1.6	21
134	Solid-surface room-temperature phosphorimetric detection of caffeine, theophylline and theobromine in liquid chromatography. Analytica Chimica Acta, 1991, 244, 215-222.	2.6	20
135	Laser induced breakdown spectrometry of vanadium in titania supported silica catalysts. Talanta, 1998, 47, 143-151.	2.9	20
136	Energy assistance in laser induced plasma spectrometry (LIPS) by a synchronized microsecond-pulsed glow discharge secondary excitation. Journal of Analytical Atomic Spectrometry, 2007, 22, 183-186.	1.6	20
137	Laser-induced breakdown spectroscopy of solid aerosols produced by optical catapulting. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 642-648.	1.5	20
138	Selective Sampling and Laser-Induced Breakdown Spectroscopy (LIBS) Analysis of Organic Explosive Residues on Polymer Surfaces. Applied Spectroscopy, 2012, 66, 1197-1203.	1.2	20
139	Optical Trapping as a Morphologically Selective Tool for In Situ LIBS Elemental Characterization of Single Nanoparticles Generated by Laser Ablation of Bulk Targets in Air. Analytical Chemistry, 2021, 93, 2635-2643.	3.2	20
140	Pressure Effects in Laser-Induced Plasmas of Trinitrotoluene and Pyrene by Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2014, 68, 33-38.	1.2	19
141	Subfemtogram Simultaneous Elemental Detection in Multicomponent Nanomatrices Using Laser-Induced Plasma Emission Spectroscopy within Atmospheric Pressure Optical Traps. Analytical Chemistry, 2019, 91, 7444-7449.	3.2	19
142	Spectrophotometric reaction-rate method for the determination of nitrite in waters with pyridine-2-aldehyde 2-pyridylhydrazone. Talanta, 1987, 34, 1021-1026.	2.9	18
143	Determination of trace amounts of carbaryl in water by solid-phase laser-induced fluorescence. Talanta, 1997, 44, 443-449.	2.9	18
144	Chemical maps of patterned samples by microline-imaging laser-induced plasma spectrometry. Surface and Interface Analysis, 2003, 35, 263-267.	0.8	18

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145	Characteristics of solid aerosols produced by optical catapulting studied by laser-induced breakdown spectroscopy. <i>Applied Surface Science</i> , 2010, 256, 5924-5928.	3.1	18
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