J Javier Laserna

List of Publications by Year
in descending order

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245	8,618	50566	78623
papers	citations	48 h-index	77 g-index

249	249	249	4304
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Refractory residues classification strategy using emission spectroscopy of laser-induced plasmas in tandem with a decision tree-based algorithm. Analytica Chimica Acta, 2022, 1191, 339294.	2.6	4
2	Size-dependent synergetic seeding effects in the inspection of airborne dry nanoaerosols by LIBS. Talanta, 2022, 239, 123067.	2.9	5
3	LIBS-Acoustic Mid-Level Fusion Scheme for Mineral Differentiation under Terrestrial and Martian Atmospheric Conditions. Analytical Chemistry, 2022, 94, 1840-1849.	3.2	13
4	Pressure Effects on Simultaneous Optical and Acoustics Data from Laser-Induced Plasmas in Air: Implications to the Differentiation of Geological Materials. Applied Spectroscopy, 2022, 76, 946-958.	1.2	1
5	Progress in arsenic determination at low levels in copper ores by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 195, 106501.	1.5	5
6	Investigation on the origin of molecular emissions in laser-induced breakdown spectroscopy under Mars-like atmospheric conditions of isotope-labeled compounds of interest in astrobiology. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106114.	1.5	10
7	Energy transfer mechanisms in laser-induced plasmas: Variation of physical traits mediated by the presence of single optically-trapped nanoparticulate material. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106193.	1.5	5
8	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
9	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4.	3.7	160
10	Fast and In-Situ Identification of Archaeometallurgical Collections in the Museum of Malaga Using Laser-Induced Breakdown Spectroscopy and a New Mathematical Algorithm. Heritage, 2020, 3, 1330-1343.	0.9	4
11	Detectability and discrimination of biomarker organic precursors in a low pressure CO₂ atmosphere by LIBS. Journal of Analytical Atomic Spectrometry, 2020, 35, 1947-1955.	1.6	11
12	Optical trapping reveals differences in dielectric and optical properties of copper nanoparticles compared to their oxides and ferrites. Scientific Reports, 2020, 10, 1198.	1.6	16
13	Multianalytical and multiproxy approach to the characterization of a Paleolithic lamp. An example in Nerja cave (Southern Iberian Peninsula). Journal of Archaeological Science: Reports, 2019, 28, 102021.	0.2	9
14	Laser-Induced Breakdown Spectroscopy (LIBS) of Organic Compounds: A Review. Applied Spectroscopy, 2019, 73, 963-1011.	1.2	68
15	Onset of optical emission in femtosecond laser-induced plasmas and its correlation with surface dynamics monitored by pumpâ€“probe time-resolved microscopy. Journal of Analytical Atomic Spectrometry, 2019, 34, 2119-2125.	1.6	2
16	Wavelength and energy dependence on ablation dynamics under femtosecond laser pulses observed by time-resolved pumpâ€“probe microscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 158, 105634.	1.5	1
17	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
18	Dual-Spectroscopy Platform for the Surveillance of Mars Mineralogy Using a Decisions Fusion Architecture on Simultaneous LIBS-Raman Data. Analytical Chemistry, 2018, 90, 2079-2087.	3.2	49

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19	Laser-Induced Breakdown Spectroscopy (LIBS): Fast, Effective, and Agile Leading Edge Analytical Technology. Applied Spectroscopy, 2018, 72, 35-50.	1.2	39
20	Isomer discrimination in condensed phase by laser-induced breakdown spectrometry and laser-ionization mass spectrometry using a tailored paired-pulse excitation scheme. Journal of Analytical Atomic Spectrometry, 2018, 33, 1469-1476.	1.6	7
21	Atomization efficiency and photon yield in laser-induced breakdown spectroscopy analysis of single nanoparticles in an optical trap. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 130, 75-81.	1.5	26
22	Monitoring the dynamics of the surface deformation prior to the onset of plasma emission during femtosecond laser ablation of noble metals by time-resolved reflectivity microscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 1-7.	1.5	9
23	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
24	Spectral Identification in the Attogram Regime through Laserâ€induced Emission of Single Optically Trapped Nanoparticles in Air. Angewandte Chemie, 2017, 129, 14366-14370.	1.6	1
25	Spectral Identification in the Attogram Regime through Laserâ€induced Emission of Single Optically Trapped Nanoparticles in Air. Angewandte Chemie - International Edition, 2017, 56, 14178-14182.	7.2	25
26	Angle of Observation Influence on Emission Signal from Spatially Confined Laser-Induced Plasmas. Applied Spectroscopy, 2017, 71, 87-96.	1.2	2
27	Remotely Exploring Deeper-Into-Matter by Non-Contact Detection of Audible Transients Excited by Laser Radiation. Sensors, 2017, 17, 2960.	2.1	1
28	Standoff monitoring of aqueous aerosols using nanosecond laser-induced breakdown spectroscopy: droplet size and matrix effects. Applied Optics, 2017, 56, 3773.	2.1	15
29	Effects of post-growth thermal annealing on room temperature pulsed laser deposited ZnO thin films. Journal of Physics: Conference Series, 2016, 687, 012028.	0.3	3
30	Distinction strategies based on discriminant function analysis for particular steel grades at elevated temperature using stand-off LIBS. Journal of Analytical Atomic Spectrometry, 2016, 31, 2242-2252.	1.6	15
31	Acting Role of Background Gas in the Emission Response of Laser-Induced Plasmas of Energetic Nitro Compounds. Applied Spectroscopy, 2016, 70, 1364-1374.	1.2	15
32	Multi-Pulse Excitation for Underwater Analysis of Copper-Based Alloys Using a Novel Remote Laser-Induced Breakdown Spectroscopy (LIBS) System. Applied Spectroscopy, 2016, 70, 618-626.	1.2	17
33	Molecular signatures in femtosecond laser-induced organic plasmas: comparison with nanosecond laser ablation. Physical Chemistry Chemical Physics, 2016, 18, 2398-2408.	1.3	43
34	Determination of plasma ignition threshold fluence during femtosecond single-shot laser ablation on metallic samples detected by optical emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 1730-1735.	1.6	10
35	Direct determination of the nutrient profile in plant materials by femtosecond laser-induced breakdown spectroscopy. Analytica Chimica Acta, 2015, 876, 26-38.	2.6	46
36	A spectral sieve-based strategy for sensing inorganic and organic traces on solid surfaces using laser-induced breakdown spectroscopy. Analytical Methods, 2015, 7, 7280-7289.	1.3	5

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37	Sensing Signatures Mediated by Chemical Structure of Molecular Solids in Laser-Induced Plasmas. Analytical Chemistry, 2015, 87, 2794-2801.	3.2	47
38	A study of underwater stand-off laser-induced breakdown spectroscopy for chemical analysis of objects in the deep ocean. Journal of Analytical Atomic Spectrometry, 2015, 30, 1050-1056.	1.6	48
39	Spatial distribution analysis of strontium in human teeth by laser-induced breakdown spectroscopy: application to diagnosis of seawater drowning. International Journal of Legal Medicine, 2015, 129, 807-813.	1.2	16
40	Unveiling the identity of distant targets through advanced Raman-laser-induced breakdown spectroscopy data fusion strategies. Talanta, 2015, 134, 627-639.	2.9	33
41	Elemental analysis of materials in an underwater archeological shipwreck using a novel remote laser-induced breakdown spectroscopy system. Talanta, 2015, 137, 182-188.	2.9	74
42	Visualization of surface transformations during laser ablation of solids by femtosecond pumpâ€“probe time-resolved microscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 30-36.	1.5	10
43	Exploring the formation routes of diatomic hydrogenated radicals using femtosecond laser-induced breakdown spectroscopy of deuterated molecular solids. Journal of Analytical Atomic Spectrometry, 2015, 30, 2343-2352.	1.6	31
44	Study of Metal Organic Chemical Vapour Deposition (MOCVD) semiconductors III-V hyperstructures with Secondary Ion Mass Spectrometry (SIMS). IOP Conference Series: Materials Science and Engineering, 2014, 59, 012002.	0.3	0
45	Evaluation of laser-induced breakdown spectroscopy analysis potential for addressing radiological threats from a distance. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 96, 12-20.	1.5	31
46	Primary and recombined emitting species in laser-induced plasmas of organic explosives in controlled atmospheres. Journal of Analytical Atomic Spectrometry, 2014, 29, 1675-1685.	1.6	30
47	Range-Adaptive Standoff Recognition of Explosive Fingerprints on Solid Surfaces using a Supervised Learning Method and Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2014, 86, 5045-5052.	3.2	35
48	Chemical characterization of single micro- and nano-particles by optical catapultingâ€“optical trappingâ€“laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 100, 78-85.	1.5	49
49	Advanced recognition of explosives in traces on polymer surfaces using LIBS and supervised learning classifiers. Analytica Chimica Acta, 2014, 806, 107-116.	2.6	44
50	Potential of laser-induced breakdown spectroscopy for discrimination of nano-sized carbon materials. Insights on the optical characterization of graphene. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 97, 105-112.	1.5	12
51	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
52	Effect of Pulse Duration in Multi-Pulse Excitation of Silicon in Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2014, 68, 1060-1066.	1.2	10
53	New insights into the potential factors affecting the emission spectra variability in standoff LIBS. Journal of Analytical Atomic Spectrometry, 2013, 28, 1750.	1.6	15
54	Laser-induced plasma spectroscopy of organic compounds. Understanding fragmentation processes using ionâ€“photon coincidence measurements. Journal of Analytical Atomic Spectrometry, 2013, 28, 1377.	1.6	22

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55	Condensedâ€phase laser ionization timeâ€ofâ€flight mass spectrometry of highly energetic nitroâ€aromatic compounds. Rapid Communications in Mass Spectrometry, 2013, 27, 1807-1813.	0.7	12
56	Production of aerosols by optical catapulting: Imaging, performance parameters and laser-induced plasma sampling rate. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 89, 1-6.	1.5	8
57	Vibrational emission analysis of the CN molecules in laser-induced breakdown spectroscopy of organic compounds. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 89, 77-83.	1.5	77
58	Fundamentals of standâ€off Raman scattering spectroscopy for explosive fingerprinting. Journal of Raman Spectroscopy, 2013, 44, 121-130.	1.2	31
59	Insights in the laser-induced breakdown spectroscopy signal generation underwater using dual pulse excitation â€" Part I: Vapor bubble, shockwaves and plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 82, 42-49.	1.5	48
60	Recognition of explosives fingerprints on objects for courier services using machine learning methods and laser-induced breakdown spectroscopy. Talanta, 2013, 110, 108-117.	2.9	39
61	Location and detection of explosive-contaminated human fingerprints on distant targets using standoff laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 85, 71-77.	1.5	37
62	Evaluating the use of standoff LIBS in architectural heritage: surveying the Cathedral of MÃ¡laga. Journal of Analytical Atomic Spectrometry, 2013, 28, 810.	1.6	49
63	Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2013, 85, 640-669.	3.2	429
64	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
65	Spatial distribution of paleoclimatic proxies in stalagmite slabs using laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2012, 27, 868.	1.6	26
66	Laserâ€induced breakdown spectroscopy of metals covered by water droplets. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 95-102.	1.5	7
67	Adaptive approach for variable noise suppression on laser-induced breakdown spectroscopy responses using stationary wavelet transform. Analytica Chimica Acta, 2012, 754, 8-19.	2.6	42
68	Room temperature pulsed laser deposited ZnO thin films as photoluminiscence gas sensors. Applied Surface Science, 2012, 259, 806-810.	3.1	31
69	Chemical analysis of archeological materials in submarine environments using laser-induced breakdown spectroscopy. On-site trials in the Mediterranean Sea. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 137-143.	1.5	107
70	New chemometrics in laser-induced breakdown spectroscopy for recognizing explosive residues. Journal of Analytical Atomic Spectrometry, 2012, 27, 2111.	1.6	38
71	Secondary ion mass spectrometry of powdered explosive compounds for forensic evidence analysis. Rapid Communications in Mass Spectrometry, 2012, 26, 1203-1207.	0.7	4
72	Multi-analytical study of patination methods on steel substrates: a full insight into surface chemistry and morphology. Analytical and Bioanalytical Chemistry, 2012, 402, 2277-2285.	1.9	2

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73	New Ramanâ€“Laser-Induced Breakdown Spectroscopy Identity of Explosives Using Parametric Data Fusion on an Integrated Sensing Platform. Analytical Chemistry, 2011, 83, 6275-6285.	3.2	122
74	Analysis of explosive residues in human fingerprints using optical catapultingâ€“laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2011, 26, 1445.	1.6	62
75	Deep Ablation and Depth Profiling by Laser-Induced Breakdown Spectroscopy (LIBS) Employing Multi-Pulse Laser Excitation: Application to Galvanized Steel. Applied Spectroscopy, 2011, 65, 797-805.	1.2	39
76	Optical Catapulting Laser Induced Breakdown Spectroscopy (OC-LIBS) And Conventional LIBS: A comparative Study. AIP Conference Proceedings, 2011, , .	0.3	6
77	Standoff detection of explosives: critical comparison for ensuing options on Raman spectroscopyâ€“LIBS sensor fusion. Analytical and Bioanalytical Chemistry, 2011, 400, 3353-3365.	1.9	67
78	Depth-profiling analysis of MOCVD-grown triple junction solar cells by SIMS. Surface and Interface Analysis, 2011, 43, 646-648.	0.8	1
79	Development of an energy-resolved method for SIMS in-depth analysis of metal-polymer interfaces. Surface and Interface Analysis, 2011, 43, 632-634.	0.8	2
80	New challenges and insights in the detection and spectral identification of organic explosives by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 12-20.	1.5	144
81	Investigation of metallic interdiffusion in Al x Ga1â^'x N/GaN/sapphire heterostructures used for microelectronic devices by SEM/EDX and SIMS depth profiling. Analytical and Bioanalytical Chemistry, 2010, 397, 2865-2871.	1.9	3
82	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
83	Characteristics of solid aerosols produced by optical catapulting studied by laser-induced breakdown spectroscopy. Applied Surface Science, 2010, 256, 5924-5928.	3.1	18
84	Assessment of statistical uncertainty in the quantitative analysis of solid samples in motion using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 680-687.	1.5	37
85	Spectrochemical study for the in situ detection of oil spill residues using laser-induced breakdown spectroscopy. Analytica Chimica Acta, 2010, 683, 52-57.	2.6	43
86	Atomic/molecular depth profiling of nanometricâ€•metallized polymer thin films by secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 463-468.	0.7	3
87	Simultaneous Raman Spectroscopyâ^'Laser-Induced Breakdown Spectroscopy for Instant Standoff Analysis of Explosives Using a Mobile Integrated Sensor Platform. Analytical Chemistry, 2010, 82, 1389-1400.	3.2	126
88	Multielemental analysis of prehistoric animal teeth by laser-induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry. Applied Optics, 2010, 49, C191.	2.1	40
89	On-Line Laser-Induced Breakdown Spectroscopy Determination of Magnesium Coating Thickness on Electrolytically Galvanized Steel in Motion. Applied Spectroscopy, 2010, 64, 1342-1349.	1.2	14
90	Experimental variables and matrix effects associated with the onset of ion generation in laser ionization of solid samples. Journal of Analytical Atomic Spectrometry, 2010, 25, 1424.	1.6	6

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91	SIMS investigation on the effect of the interstitial moisture in metallized polymer films. Journal of Analytical Atomic Spectrometry, 2010, 25, 669.	1.6	5
92	Laser ablation of powdered samples and analysis by means of laser-induced breakdown spectroscopy. Applied Surface Science, 2009, 255, 5329-5333.	3.1	30
93	Energyâ€resolved depth profiling of metalâ€polymer interfaces using dynamic quadrupole secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 2357-2362.	0.7	8
94	Depth profiles of ceramic tiles by using orthogonal doubleâ€pulse laser induced breakdown spectrometry. Surface and Interface Analysis, 2009, 41, 714-719.	0.8	17
95	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
96	Laser-induced breakdown spectroscopy of solid aerosols produced by optical catapulting. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 642-648.	1.5	20
97	Optical emission analysis of solid samples by decoupled sputtering/excitation using a low fluence laser synchronized with a pulsed glow discharge. Applied Surface Science, 2009, 255, 8841-8845.	3.1	4
98	Real time and in situ determination of lead in road sediments using a man-portable laser-induced breakdown spectroscopy analyzer. Analytica Chimica Acta, 2009, 633, 38-42.	2.6	62
99	Study on the effect of beam propagation through atmospheric turbulence on standoff nanosecond laser induced breakdown spectroscopy measurements. Optics Express, 2009, 17, 10265.	1.7	49
100	Standoff LIBS detection of explosive residues behind a barrier. Journal of Analytical Atomic Spectrometry, 2009, 24, 1123.	1.6	60
101	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. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 42-50.	1.5	43
102	A theoretical study of atmospheric propagation of laser and return light for stand-off laser induced breakdown spectroscopy purposes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 305-311.	1.5	34
103	Subthreshold two-pulse time-delayed laser ionization of Cu. Applied Physics A: Materials Science and Processing, 2008, 92, 963-967.	1.1	4
104	Twoâ€pulse delayed 532â€nm laser ionization of metals using collinear subâ€threshold beams. Rapid Communications in Mass Spectrometry, 2008, 22, 1999-2005.	0.7	5
105	Libraries for spectrum identification: Method of normalized coordinates versus linear correlation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 383-388.	1.5	25
106	The potential of laser-induced breakdown spectrometry for real time monitoring the laser cleaning of archaeometallurgical objects. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1191-1197.	1.5	35
107	Focused ion beam imaging of laser ablation sub-surface effects on layered materials. Applied Surface Science, 2008, 255, 2265-2269.	3.1	6
108	Alternative Statistical Methods for Spectral Data Processing: Applications to Laser-Induced Breakdown Spectroscopy of Gaseous and Aerosol Systems. Applied Spectroscopy, 2008, 62, 1144-1152.	1.2	24

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109	Man-Portable Laser-Induced Breakdown Spectroscopy System for in Situ Characterization of Karstic Formations. Applied Spectroscopy, 2008, 62, 1250-1255.	1.2	46
110	Glow-Discharge-Assisted Laser-Induced Breakdown Spectroscopy: Increased Sensitivity in Solid Analysis. Applied Spectroscopy, 2008, 62, 1262-1267.	1.2	28
111	Preliminary studies on stand-off laser induced breakdown spectroscopy detection of aerosols. Journal of Analytical Atomic Spectrometry, 2008, 23, 885.	1.6	34
112	In Situ Analytical Assessment and Chemical Imaging of Historical Buildings Using a Man-Portable Laser System. Applied Spectroscopy, 2007, 61, 558-564.	1.2	65
113	Optical Restriction of Plasma Emission Light for Nanometric Sampling Depth and Depth Profiling of Multilayered Metal Samples. Applied Spectroscopy, 2007, 61, 719-724.	1.2	9
114	Stand-off analysis of moving targets using laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2007, 22, 84-87.	1.6	30
115	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
116	Test of a stand-off laser-induced breakdown spectroscopy sensor for the detection of explosive residues on solid surfaces. Journal of Analytical Atomic Spectrometry, 2006, 21, 55-60.	1.6	208
117	Design, construction and assessment of a field-deployable laser-induced breakdown spectrometer for remote elemental sensing. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 88-95.	1.5	75
118	Quantitative analysis of samples at high temperature with remote laser-induced breakdown spectrometry using a room-temperature calibration plot. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1034-1039.	1.5	45
119	Third International Conference on Laser Induced Plasma Spectroscopy and Applications (LIBS 2004). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 877-878.	1.5	10
120	Chronocultural sorting of archaeological bronze objects using laser-induced breakdown spectrometry. Analytica Chimica Acta, 2005, 554, 136-143.	2.6	80
121	Thermal-to-plasma transitions and energy thresholds in laser ablated metals monitored by atomic emission/mass spectrometry coincidence analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 948-954.	1.5	30
122	Portable instrument and analytical method using laser-induced breakdown spectrometry for in situ characterization of speleothems in karstic caves. Journal of Analytical Atomic Spectrometry, 2005, 20, 295-300.	1.6	62
123	Quantitative analysis of low-alloy steel by microchip laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2005, 20, 552.	1.6	101
124	Calibration transfer method for the quantitative analysis of high-temperature materials with stand-off laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2005, 20, 1275.	1.6	26
125	Remote sensing instrument for solid samples based on open-path atomic emission spectrometry. Review of Scientific Instruments, 2004, 75, 2068-2074.	0.6	48
126	Laser-induced plasma spectrometry: truly a surface analytical tool. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 147-161.	1.5	208

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127	Large area mapping of non-metallic inclusions in stainless steel by an automated system based on laser ablation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 567-575.	1.5	24
128	Acoustic and optical emission during laser-induced plasma formation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1395-1401.	1.5	55
129	Atomic emission spectroscopy of laser-induced plasmas generated with an annular-shaped laser beam. Journal of Analytical Atomic Spectrometry, 2004, 19, 445-450.	1.6	13
130	Remote laser-induced plasma spectrometry for elemental analysis of samples of environmental interest. Journal of Analytical Atomic Spectrometry, 2004, 19, 1479-1484.	1.6	53
131	Analytical control of liquid steel in an induction melting furnace using a remote laser induced plasma spectrometer. Journal of Analytical Atomic Spectrometry, 2004, 19, 462.	1.6	68
132	Real-Time Monitoring of High-Temperature Corrosion in Stainless Steels by Open-Path Laser-Induced Plasma Spectrometry. Applied Spectroscopy, 2004, 58, 1347-1352.	1.2	24
133	Remote, real-time, on-line monitoring of high-temperature samples by noninvasive open-path laser plasma spectrometry. Analytical and Bioanalytical Chemistry, 2003, 375, 1144-1147.	1.9	38
134	Chemical maps of patterned samples by microline-imaging laser-induced plasma spectrometry. Surface and Interface Analysis, 2003, 35, 263-267.	0.8	18
135	Line-focused laser ablation for depth-profiling analysis of coated and layered materials. Applied Optics, 2003, 42, 6057.	2.1	39
136	Spectral analysis of the acoustic emission of laser-produced plasmas. Applied Optics, 2003, 42, 6078.	2.1	36
137	Chemical Imaging Using Microline Laser Ablation: Performance Comparison of Gaussian and Flat Top Lasers. Applied Spectroscopy, 2003, 57, 343-348.	1.2	17
138	Automated Line-Focused Laser Ablation for Mapping of Inclusions in Stainless Steel. Applied Spectroscopy, 2003, 57, 1461-1467.	1.2	24
139	Development of a portable laser-induced plasma spectrometer with fully-automated operation and quantitative analysis capabilities. Journal of Analytical Atomic Spectrometry, 2003, 18, 933-938.	1.6	43
140	Nanometric in-depth characterization of P diffusion and TiO2 anti-reflective coatings in solar cells by laser ionization time-of-flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 779.	1.6	12
141	Spatial distribution of catalytically active elements and deactivants in diesel-engine automobile converters by laser-induced plasma spectrometryElectronic Supplementary Information available: spectra corresponding to the washcoat and cordierite. See http://www.rsc.org/suppdata/ja/b2/b200975g. Journal of Analytical Atomic Spectrometry, 2002, 17, 548-551.	1.6	23
142	Ion extraction effects on the in-depth analysis of layered samples by time-of-flight mass spectrometry of laser-induced plasmas. Journal of Analytical Atomic Spectrometry, 2002, 17, 929-932.	1.6	6
143	Time-resolved laser-induced plasma spectrometry for determination of minor elements in steelmaking process samples. Analytical and Bioanalytical Chemistry, 2002, 372, 352-359.	1.9	29
144	Surface interaction and chemical imaging in plasma spectrometry induced with a line-focused laser beam. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 601-608.	1.5	30

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145	Open-path laser-induced plasma spectrometry for remote analytical measurements on solid surfaces. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 591-599.	1.5	85
146	Compositional Mapping of Poisoning Elements in Automobile Three-Way Catalytic Converters by Using Laser-Induced Breakdown Spectrometry. Applied Spectroscopy, 2001, 55, 267-272.	1.2	38
147	Irradiance-dependent depth profiling of layered materials using laser-induced plasma spectrometry. Journal of Analytical Atomic Spectrometry, 2001, 16, 1317-1321.	1.6	63
148	Surface Stoichiometry of Manganin Coatings Prepared by Pulsed Laser Deposition As Described by Laser-Induced Breakdown Spectrometry. Analytical Chemistry, 2001, 73, 1120-1125.	3.2	33
149	Three-dimensional distribution analysis of platinum, palladium and rhodium in auto catalytic converters using imaging-mode laser-induced breakdown spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 177-185.	1.5	55
150	Diagnostics of silicon plasmas produced by visible nanosecond laser ablation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 275-288.	1.5	129
151	Comparative analysis of layered materials using laser-induced plasma spectrometry and laser-ionization time-of-flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 923-931.	1.5	33
152	Spectroscopic diagnostics on CW-laser welding plasmas of aluminum alloys. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 651-659.	1.5	62
153	Study of experimental parameters for improved adsorbate detectability in SERS using etched silver substrates. Surface and Interface Analysis, 2000, 30, 592-596.	0.8	8
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