

Vincenzo Paleschi

List of Publications by Year in descending order

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249
papers

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47006

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258
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258
docs citations

258
times ranked

3891
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Breakdown Spectroscopy (LIBS). , 2006, , .		778
2	New Procedure for Quantitative Elemental Analysis by Laser-Induced Plasma Spectroscopy. Applied Spectroscopy, 1999, 53, 960-964.	2.2	736
3	Local Thermodynamic Equilibrium in Laser-Induced Breakdown Spectroscopy: Beyond the McWhirter criterion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 86-95.	2.9	514
4	Quantitative micro-analysis by laser-induced breakdown spectroscopy: a review of the experimental approaches. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1115-1130.	2.9	398
5	Calibration-Free Laser-Induced Breakdown Spectroscopy: State of the art. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 1-14.	2.9	362
6	A procedure for correcting self-absorption in calibration free-laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 339-353.	2.9	293
7	Evaluation of self-absorption coefficients of aluminum emission lines in laser-induced breakdown spectroscopy measurements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1573-1579.	2.9	261
8	A numerical study of expected accuracy and precision in Calibration-Free Laser-Induced Breakdown Spectroscopy in the assumption of ideal analytical plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1287-1302.	2.9	204
9	Fast and precise algorithm for computer simulation of stochastic differential equations. Physical Review A, 1989, 40, 3381-3386.	2.5	193
10	Trace Element Analysis in Water by the Laser-Induced Breakdown Spectroscopy Technique. Applied Spectroscopy, 1997, 51, 1102-1105.	2.2	166
11	Three-dimensional analysis of laser induced plasmas in single and double pulse configuration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 723-735.	2.9	150
12	Influence of ambient gas pressure on laser-induced breakdown spectroscopy technique in the parallel double-pulse configuration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1907-1917.	2.9	145
13	Nematic-isotropic interface of some members of the homologous series of 4-cyano-4'-(n-alkyl)biphenyl liquid crystals. Physical Review A, 1984, 30, 3241-3251.	2.5	129
14	Calibration free laser-induced breakdown spectroscopy of oxide materials. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 671-679.	2.9	124
15	Application of laser-induced breakdown spectroscopy technique to hair tissue mineral analysis. Applied Optics, 2003, 42, 6133.	2.1	119
16	Applications of laser-induced breakdown spectroscopy in cultural heritage and archaeology: a critical review. Journal of Analytical Atomic Spectrometry, 2019, 34, 81-103.	3.0	118
17	Almost Critical Behavior of the Anchoring Energy at the Interface between a Nematic Liquid Crystal and a SiO Substrate. Physical Review Letters, 1985, 55, 1681-1684.	7.8	117
18	Elemental analysis by surface-enhanced Laser-Induced Breakdown Spectroscopy combined with liquid-liquid microextraction. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 79-80, 88-93.	2.9	117

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19	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.	2.9	116
20	Effect of laser pulse energies in laser induced breakdown spectroscopy in double-pulse configuration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1392-1401.	2.9	112
21	ModA-: a new mobile instrument for in situ double-pulse LIBS analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 240-247.	3.7	105
22	Laser-induced breakdown spectroscopy for human and animal health: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 152, 123-148.	2.9	104
23	Double pulse, calibration-free laser-induced breakdown spectroscopy: A new technique for in situ standard-less analysis of polluted soils. <i>Applied Geochemistry</i> , 2006, 21, 748-755.	3.0	102
24	Trace pollutants analysis in soil by a time-resolved laser-induced breakdown spectroscopy technique. <i>Applied Physics B: Lasers and Optics</i> , 1996, 63, 185-190.	2.2	99
25	Effect of Laser-Induced Crater Depth in Laser-Induced Breakdown Spectroscopy Emission Features. <i>Applied Spectroscopy</i> , 2005, 59, 853-860.	2.2	99
26	Characterization of azurite and lazurite based pigments by laser induced breakdown spectroscopy and micro-Raman spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 915-922.	2.9	95
27	Characterization of a collinear double pulse laser-induced plasma at several ambient gas pressures by spectrally- and time-resolved imaging. <i>Applied Physics B: Lasers and Optics</i> , 2005, 80, 559-568.	2.2	83
28	One-point calibration for calibration-free laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 51-56.	2.9	82
29	Spectroscopic and shadowgraphic analysis of laser induced plasmas in the orthogonal double pulse pre-ablation configuration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 340-350.	2.9	81
30	Self-calibrated quantitative elemental analysis by laser-induced plasma spectroscopy: application to pigment analysis. <i>Journal of Cultural Heritage</i> , 2000, 1, S281-S286.	3.3	80
31	A fast and accurate method for the determination of precious alloys caratage by Laser Induced Plasma Spectroscopy. <i>European Physical Journal D</i> , 2001, 13, 373-377.	1.3	77
32	Comparison of detection limits, for two metallic matrices, of laser-induced breakdown spectroscopy in the single and double-pulse configurations. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 316-325.	3.7	72
33	Industrial applications of laser-induced breakdown spectroscopy: a review. <i>Analytical Methods</i> , 2020, 12, 1014-1029.	2.7	72
34	Observation of different mass removal regimes during the laser ablation of an aluminium target in air. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1518.	3.0	71
35	Spatial distribution of hydrogen and other emitters in aluminum laser-induced plasma in air and consequences on spatially integrated Laser-Induced Breakdown Spectroscopy measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 980-987.	2.9	69
36	A review of the current analytical approaches for evaluating, compensating and exploiting self-absorption in Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 169, 105878.	2.9	69

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37	An artificial neural network approach to laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 52-58.	2.9	68
38	Effect of target composition on the emission enhancement observed in Double-Pulse Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 312-323.	2.9	65
39	Quantitative analysis of aluminium alloys by low-energy, high-repetition rate laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 697.	3.0	60
40	Classical univariate calibration and partial least squares for quantitative analysis of brass samples by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 658-663.	2.9	59
41	Classification of wrought aluminum alloys by Artificial Neural Networks evaluation of Laser Induced Breakdown Spectroscopy spectra from aluminum scrap samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 52-57.	2.9	58
42	A hybrid calibration-free/artificial neural networks approach to the quantitative analysis of LIBS spectra. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 353-360.	2.2	56
43	In situ study of the Porticello Bronzes by portable X-ray fluorescence and laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1512-1518.	2.9	55
44	Investigation on the role of air in the dynamical evolution and thermodynamic state of a laser-induced aluminium plasma by spatial- and time-resolved spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 787-796.	2.9	54
45	Detection of mercury in air by time-resolved laser-induced breakdown spectroscopy technique. <i>Laser and Particle Beams</i> , 1994, 12, 525-530.	1.0	52
46	Comparison between single- and double-pulse LIBS at different air pressures on silicon target. <i>Applied Physics B: Lasers and Optics</i> , 2006, 83, 651-657.	2.2	51
47	Time-resolved LIBS experiment for quantitative determination of pollutant concentrations in air. <i>Laser and Particle Beams</i> , 1991, 9, 633-639.	1.0	50
48	Diagnostics of high-temperature steel pipes in industrial environment by laser-induced breakdown spectroscopy technique: the LIBSGRAIN project. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1181-1192.	2.9	50
49	Analytical and mathematical methods for revealing hidden details in ancient manuscripts and paintings: A review. <i>Journal of Advanced Research</i> , 2019, 17, 31-42.	9.5	50
50	X-Ray Fluorescence and Laser-Induced Breakdown Spectroscopy analysis of Roman silver denarii. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 156-161.	2.9	48
51	Archaeometric Analysis of Ancient Copper Artefacts by Laser-Induced Breakdown Spectroscopy Technique. <i>Mikrochimica Acta</i> , 2005, 152, 105-111.	5.0	47
52	Effect of laser parameters on plasma shielding in single and double pulse configurations during the ablation of an aluminium target. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 225207.	2.8	47
53	On the determination of plasma electron number density from Stark broadened hydrogen Balmer series lines in Laser-Induced Breakdown Spectroscopy experiments. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 98-103.	2.9	46
54	Spherical shock waves in laser produced plasmas in gas. <i>Optics Communications</i> , 1988, 69, 141-146.	2.1	44

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55	Temporal and Spatial Evolution of a Laser-Induced Plasma from a Steel Target. <i>Applied Spectroscopy</i> , 2003, 57, 715-721.	2.2	44
56	From Calibration-Free to Fundamental Parameters Analysis: A comparison of three recently proposed approaches. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 124, 40-46.	2.9	44
57	Measurements of the interfacial tension between nematic and isotropic phase of some cyanobiphenyls. <i>Journal of Chemical Physics</i> , 1984, 81, 6254-6258.	3.0	42
58	Plasma processes and emission spectra in laser induced plasmas: A point of view. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 180-188.	2.9	42
59	Multivariate calibration in Laser-Induced Breakdown Spectroscopy quantitative analysis: The dangers of a "black box" approach and how to avoid them. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 144, 46-54.	2.9	42
60	Study of foxing stains on paper by chemical methods, infrared spectroscopy, micro-X-ray fluorescence spectrometry and laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1235-1249.	2.9	40
61	Numerical solution of the Fokker-Planck equation: A fast and accurate algorithm. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 146, 378-386.	2.1	39
62	CF-LIPS: A new approach to LIPS spectra analysis. <i>Laser and Particle Beams</i> , 1999, 17, 793-797.	1.0	39
63	Determination of the deuterium/hydrogen ratio in gas reaction products by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 797-802.	2.9	39
64	Wood coated with plasma-polymer for water repellence. <i>Wood Science and Technology</i> , 2008, 42, 149-160.	3.2	39
65	Shock Waves in Laser-Induced Plasmas. <i>Atoms</i> , 2019, 7, 57.	1.6	39
66	Measurement of Stark broadening of Mn I and Mn II spectral lines in plasmas used for Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1237-1245.	2.9	38
67	Characterization of historical mortars from the bell tower of St. Nicholas church (Pisa, Italy). <i>Construction and Building Materials</i> , 2014, 69, 203-212.	7.2	38
68	Quantitative analysis of metals in waste foundry sands by calibration free-laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 131, 58-65.	2.9	38
69	Extracting Time-Resolved Information from Time-Integrated Laser-Induced Breakdown Spectra. <i>Journal of Spectroscopy</i> , 2014, 2014, 1-5.	1.3	36
70	Fast quantitative elemental mapping of highly inhomogeneous materials by micro-Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 9-15.	2.9	36
71	Determination of Ash Content of coal by Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 123-126.	2.9	36
72	Molecular orientation and anchoring energy at the nematic-isotropic interface of 7CB. <i>Journal De Physique (Paris), Lettres</i> , 1984, 45, 313-318.	2.8	36

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73	Micro-Laser-Induced Breakdown Spectroscopy (Micro-LIBS) Study on Ancient Roman Mortars. <i>Applied Spectroscopy</i> , 2017, 71, 721-727.	2.2	35
74	Combination of the ionic-to-atomic line intensity ratios from two test elements for the diagnostic of plasma temperature and electron number density in Inductively Coupled Plasma Atomic Emission Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 435-443.	2.9	33
75	Green-synthesized silver nanoparticles for Nanoparticle-Enhanced Laser Induced Breakdown Spectroscopy (NELIBS) using a mobile instrument. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 141, 53-58.	2.9	31
76	Determination of excitation temperature in laser-induced plasmas using columnar density Saha-Boltzmann plot. <i>Journal of Advanced Research</i> , 2019, 18, 1-7.	9.5	30
77	Classification of sedimentary and igneous rocks by laser induced breakdown spectroscopy and nanoparticle-enhanced laser induced breakdown spectroscopy combined with principal component analysis and graph theory. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105622.	2.9	30
78	Progress towards an unassisted element identification from Laser Induced Breakdown Spectra with automatic ranking techniques inspired by text retrieval. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 664-670.	2.9	29
79	A New Method for Determination of Self-Absorption Coefficients of Emission Lines in Laser-Induced Breakdown Spectroscopy Experiments. <i>Applied Spectroscopy</i> , 2010, 64, 320-323.	2.2	29
80	Recovery of archaeological wall paintings using novel multispectral imaging approaches. <i>Heritage Science</i> , 2013, 1, .	2.3	29
81	Application of Laser Induced Breakdown Spectroscopy to the identification of emeralds from different synthetic processes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 102, 48-51.	2.9	29
82	Fast analysis of complex metallic alloys by double-pulse time-integrated Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1068-1072.	2.9	28
83	Comparison of brass alloys composition by laser-induced breakdown spectroscopy and self-organizing maps. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 70-75.	2.9	28
84	Evaluation of Thin Film Microextraction for trace elemental analysis of liquid samples using LIBS detection. <i>Talanta</i> , 2021, 223, 121736.	5.5	28
85	Experimental investigation of surface deformations at the nematic-isotropic interface : a new method to measure the Nehring-Saupe elastic constant K13. <i>Journal De Physique</i> , 1985, 46, 415-424.	1.8	28
86	Laser-based continuous monitoring and resolution of steel grades in sequence casting machines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 112, 1-5.	2.9	27
87	Dynamics of laser-driven shock waves in water. <i>Journal of Applied Physics</i> , 1989, 66, 5194-5197.	2.5	26
88	Three-dimensional compositional mapping using double-pulse micro-laser-induced breakdown spectroscopy technique. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 127, 1-6.	2.9	26
89	Laser-induced breakdown spectroscopy: principles of the technique and future trends. <i>ChemTexts</i> , 2020, 6, 1.	1.9	25
90	Real time measurement of the electron density of a laser generated plasma using a RC circuit. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 836-840.	2.9	23

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91	Identification of inorganic dyeing mordant in textiles by surface-enhanced laser-induced breakdown spectroscopy. <i>Microchemical Journal</i> , 2018, 139, 230-235.	4.5	23
92	Elemental and mineralogical imaging of a weathered limestone rock by double-pulse micro-Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 143, 91-97.	2.9	23
93	Mineralogical, petrographic and physical-mechanical study of Roman construction materials from the Maritime Theatre of Hadrian's Villa (Rome, Italy). <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 127, 264-276.	5.0	23
94	A new torsion pendulum technique to measure the twist elastic constant of liquid crystals. <i>Journal De Physique (Paris), Lettres</i> , 1985, 46, 881-886.	2.8	23
95	Experimental studies on shock wave propagation in laser produced plasmas using double wavelength holography. <i>Optics Communications</i> , 1989, 71, 76-80.	2.1	22
96	Exploiting Self-Absorption for Plasma Characterization in Laser-Induced Breakdown Spectroscopy Experiments: A Comparison of Two Recent Approaches. <i>Analytical Chemistry</i> , 2019, 91, 8595-8601.	6.5	22
97	A fast method for the calculation of electron number density and temperature in laser-induced breakdown spectroscopy plasmas using artificial neural networks. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 437-444.	2.2	21
98	Application of Graph Theory to unsupervised classification of materials by Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 40-44.	2.9	21
99	Laser-Induced Breakdown Spectroscopy for Determination of Spectral Fundamental Parameters. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4973.	2.5	21
100	The Twist Elastic Constant and Anchoring Energy of the Nematic Liquid Crystal 4-N-Octyl-4-Cyanobiphenyl. <i>Liquid Crystals</i> , 1987, 2, 261-268.	2.2	20
101	Calibration Free Laser Induced Plasma Spectroscopy: A New Method for Combustion Products Analysis. <i>Clean Air</i> , 2002, 3, 69-79.	0.0	20
102	Multiplicative stochastic processes: On the correlation time as a function of noise intensity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 99, 25-28.	2.1	19
103	Numerical solution of the Fokker-Planck equation. II. Multidimensional case. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 163, 381-391.	2.1	19
104	The constituents of the ink from a Qumran inkwell: new prospects for provenancing the ink on the Dead Sea Scrolls. <i>Journal of Archaeological Science</i> , 2012, 39, 2956-2968.	2.4	19
105	Spectroscopic analysis of bones for forensic studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 70-75.	2.9	19
106	Derivation of the critical angle for Mach reflection for strong shock waves. <i>Physical Review A</i> , 1992, 45, 6130-6132.	2.5	18
107	Laser-induced breakdown spectroscopy: an introduction to the feature issue. <i>Applied Optics</i> , 2003, 42, 5937.	2.1	18
108	Reconstruction of laser-induced plasma spectral emissivity in non-axisymmetric conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 888-896.	2.9	18

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109	A multidisciplinary approach for the study and the virtual reconstruction of the ancient polychromy of Roman sarcophagi. <i>Journal of Cultural Heritage</i> , 2015, 16, 307-314.	3.3	18
110	Construction and comparison of 3D multi-source multi-band models for cultural heritage applications. <i>Journal of Cultural Heritage</i> , 2018, 34, 261-267.	3.3	18
111	Quantitative analysis of Ge/Si alloys using double-pulse calibration-free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 101-105.	2.9	17
112	Discovering "The Italian Flag" by Fernando Melani (1907-1985). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 168, 52-59.	3.9	16
113	Analysis of Serra d'Alto figuline pottery (Matera, Italy): Characterization of the dark decorations using XRF. <i>Microchemical Journal</i> , 2018, 137, 174-180.	4.5	16
114	A multi-analytical characterization of artists' carbon-based black pigments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3287-3299.	3.6	16
115	Spatial and Temporal Distribution of Chemically Characterized Microplastics within the Protected Area of Pelagos Sanctuary (NW Mediterranean Sea): Focus on Natural and Urban Beaches. <i>Water (Switzerland)</i> , 2020, 12, 3389.	2.7	16
116	A new approach to non-linear multivariate calibration in laser-induced breakdown spectroscopy analysis of silicate rocks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 166, 105804.	2.9	16
117	Mean first-passage time in a bistable system driven by strongly correlated noise: Introduction of a fluctuating potential. <i>Physical Review A</i> , 1989, 39, 3751-3753.	2.5	15
118	Kramers problem for overdamped systems driven by correlated noise: Results for vanishing diffusion coefficients. <i>Physical Review A</i> , 1990, 42, 5946-5954.	2.5	15
119	Measurement of the Stark Broadening of Atomic Emission Lines in Non-Optically Thin Plasmas by Laser-Induced Breakdown Spectroscopy. <i>Spectroscopy Letters</i> , 2007, 40, 643-658.	1.0	15
120	Enhancement of hidden patterns in paintings using statistical analysis. <i>Journal of Cultural Heritage</i> , 2013, 14, S66-S70.	3.3	15
121	Laser-Induced Breakdown Spectroscopy analysis of the limestone Nuragic statues from Mont'e Prama site (Sardinia, Italy). <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 62-70.	2.9	15
122	Study of the feeding effect on recent and ancient bovine bones by nanoparticle-enhanced laser-induced breakdown spectroscopy and chemometrics. <i>Journal of Advanced Research</i> , 2019, 17, 65-72.	9.5	15
123	Stratigraphic analysis of historical wooden samples from ancient bowed string instruments by laser induced breakdown spectroscopy. <i>Journal of Cultural Heritage</i> , 2020, 44, 275-284.	3.3	15
124	60 years of street art: A comparative study of the artists' materials through spectroscopic and mass spectrometric approaches. <i>Journal of Cultural Heritage</i> , 2021, 48, 129-140.	3.3	15
125	Applications of LIBS to the Analysis of Metals. <i>Springer Series in Optical Sciences</i> , 2014, , 169-193.	0.7	15
126	Measurements of surface elastic torques in liquid crystals : a method to measure elastic constants and anchoring energies. <i>Revue De Physique Appliquée</i> , 1986, 21, 451-461.	0.4	14

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127	On the mean first passage time in a bistable system: Some recently computed data. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 129, 317-320.	2.1	14
128	Beyond the linear approximations of the conventional approaches to the theory of chemical relaxation. <i>Journal of Chemical Physics</i> , 1990, 92, 3427-3441.	3.0	14
129	Crater drilling enhancement obtained in parallel non-collinear double-pulse laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 219-225.	2.3	14
130	Laser-induced breakdown spectroscopy application to control of the process of precious metal recovery and recycling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 71-72, 123-126.	2.9	14
131	Multi-technique study of a ceramic archaeological artifact and its content. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 144-148.	3.9	13
132	Improvement of the performances of a commercial hand-held laser-induced breakdown spectroscopy instrument for steel analysis using multiple artificial neural networks. <i>Review of Scientific Instruments</i> , 2020, 91, 073111.	1.3	13
133	Comment on "Numerical method for colored-noise generation and its application to a bistable system". <i>Physical Review A</i> , 1992, 46, 8028-8030.	2.5	12
134	X-Ray Fluorescence Analysis of XIII-XIV Century Italian Gold Coins. <i>Journal of Archaeology</i> , 2014, 2014, 1-6.	0.5	12
135	Multielemental analysis of Antarctic soils using calibration free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106191.	2.9	12
136	A reflectometric method to measure the azimuthal anchoring energy of a nematic liquid crystal. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1988, 10, 1313-1324.	0.4	11
137	First passage times distribution dependence on noise statistics and colour in a simple dynamical system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 128, 318-326.	2.1	11
138	The Calculation of the Optical Depths of Homogeneous Plasmas: Analytical, Experimental, and Numerical Considerations. <i>Applied Spectroscopy</i> , 2011, 65, 1213-1217.	2.2	11
139	High-resolution three-dimensional compositional imaging by double-pulse laser-induced breakdown spectroscopy. <i>Journal of Instrumentation</i> , 2016, 11, C08002-C08002.	1.2	11
140	Recovery of a lost wall painting at the Etruscan Tomb of the Blue Demons in Tarquinia (Viterbo, Italy) by multispectral reflectometry and UV fluorescence imaging. <i>Archaeometry</i> , 2019, 61, 450-458.	1.3	11
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142	Screening effect of impurities in metals: a possible explanation of the process of cold nuclear fusion. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1989, 11, 927-932.	0.4	10
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