

# Vincenzo Paleschi

## List of Publications by Year in descending order

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249  
papers

10,015  
citations

46918

47  
h-index

48187

88  
g-index

258  
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258  
docs citations

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times ranked

3891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Convolutional and Conventional Artificial Neural Networks for Laser-Induced Breakdown Spectroscopy Quantitative Analysis. <i>Applied Spectroscopy</i> , 2022, 76, 959-966.	1.2	7
2	Digital image analysis on cathodoluminescence microscopy images for ancient ceramic classification: methods, applications, and perspectives. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	1
3	The Cultural Heritage of "Black Stones" (Lapis Aequipondus/Martyrum) of Leopardi's Child Home (Recanati, Italy). <i>Materials</i> , 2022, 15, 3828.	1.3	2
4	Increasing resolution in chemical mapping of geomaterials: From X-ray fluorescence to laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 194, 106482.	1.5	6
5	Graphene thin film microextraction and nanoparticle enhancement for fast LIBS metal trace analysis in liquids. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 194, 106471.	1.5	8
6	Temporal analysis of self-reversed Ag I resonant lines in LIBS experiment at different laser pulse energy and in different surrounding media. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 195, 106489.	1.5	6
7	Evaluation of Thin Film Microextraction for trace elemental analysis of liquid samples using LIBS detection. <i>Talanta</i> , 2021, 223, 121736.	2.9	28
8	Understanding the source of signal fluctuations in laser-induced breakdown spectroscopy analytical applications. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	3
9	Laser-induced breakdown spectroscopy and chemometric analysis of black toners for forensic applications. <i>Journal of Chemometrics</i> , 2021, 35, e3334.	0.7	8
10	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.	1.5	15
11	Determination of Spectroscopic Parameters of Ag(I) and Ag(II) Emission Lines Using Time-Independent Extended C-Sigma Method. <i>Applied Spectroscopy</i> , 2021, 75, 654-660.	1.2	4
12	Branching Ratio Method for Assessing Optically Thin Conditions in Laser-Induced Plasmas. <i>Applied Spectroscopy</i> , 2021, 75, 000370282110067.	1.2	2
13	Multielemental analysis of Antarctic soils using calibration free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106191.	1.5	12
14	Laser-Induced Breakdown Spectroscopy elemental mapping of the construction material from the Smederevo Fortress (Republic of Serbia). <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 181, 106219.	1.5	11
15	A Multi-Analytical Study of an Ancient Egyptian Limestone Stele for Knowledge and Conservation Purposes: Recovering Hieroglyphs and Figurative Details by Image Analysis. <i>Heritage</i> , 2021, 4, 1193-1207.	0.9	4
16	Effect of plasma inhomogeneity on the determination of Stark broadening coefficients by Laser-Induced Breakdown Spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 271, 107714.	1.1	5
17	Rapid stoichiometric analysis of calcium-phosphorus ratio on hydroxyapatite targets by one-point calibration laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 184, 106250.	1.5	5
18	Laser-Induced Breakdown Spectroscopy for Determination of Spectral Fundamental Parameters. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4973.	1.3	21

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19	Quantitative analysis of major components of mineral particulate matter by calibration free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 171, 105918.	1.5	8
20	Application of Reflectance Transformation Imaging to Experimental Archaeology Studies. <i>Heritage</i> , 2020, 3, 1279-1286.	0.9	5
21	Comment on: "Measurement of deviations of transition probability of the neutral silver lines at 827.35 and 768.77 nm using OES-technique" by Alhijry et al. [JQSRT (2020) 106922]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107290.	1.1	1
22	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.	0.6	13
23	Graph clustering and portable X-Ray Fluorescence: An application for in situ, fast and preliminary classification of transport amphoras. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 172, 105966.	1.5	8
24	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.	1.2	16
25	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.	1.5	69
26	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.	1.5	16
27	Study of binary lead-tin alloys using a new procedure based on calibration-free laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 170, 105902.	1.5	3
28	About the use of inverse calibration in laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 170, 105917.	1.5	5
29	Self-calibrated methods for LIBS quantitative analysis. , 2020, , 561-580.		2
30	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.	1.5	15
31	Determination of the Stark broadening coefficients of tantalum emission lines by time-independent Extended C-sigma method. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105829.	1.5	9
32	Investigating double pulse nanoparticle enhanced laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105845.	1.5	9
33	Laser-induced breakdown spectroscopy: principles of the technique and future trends. <i>ChemTexts</i> , 2020, 6, 1.	1.0	25
34	Industrial applications of laser-induced breakdown spectroscopy: a review. <i>Analytical Methods</i> , 2020, 12, 1014-1029.	1.3	72
35	Multispectral imaging to reveal ancient hieroglyphic text in an Egyptian Stele. , 2020, ,		0
36	Comment on: "Slope ratio calibration for analysis of plant leaves by laser-induced breakdown spectroscopy" by Lidiane C. Nunes, Fabio R. P. Rocha and Francisco J. Krug, <i>JAAS</i>, 2019, <b>34</b>, 2314. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1482-1483.	1.6	0

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37	A multi-analytical characterization of artists' carbon-based black pigments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3287-3299.	2.0	16
38	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.	4.4	15
39	Direct analysis of anthraquinone dyed textiles by Surface Enhanced Raman Spectroscopy and Ag nanoparticles obtained by pulsed laser ablation. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	7
40	Determination of excitation temperature in laser-induced plasmas using columnar density Saha-Boltzmann plot. <i>Journal of Advanced Research</i> , 2019, 18, 1-7.	4.4	30
41	Applications of laser-induced breakdown spectroscopy in cultural heritage and archaeology: a critical review. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 81-103.	1.6	118
42	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.	1.5	30
43	Walking in the Streets of Pisa to Discover the Stones Used in the Middle Ages. <i>Geoheritage</i> , 2019, 11, 1631-1641.	1.5	10
44	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.	3.2	22
45	Shock Waves in Laser-Induced Plasmas. <i>Atoms</i> , 2019, 7, 57.	0.7	39
46	A stochastic model of the process of sequence casting of steel, taking into account imperfect mixing. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	1
47	A New Infrared True-Color Approach for Visible-Infrared Multispectral Image Analysis. <i>Journal on Computing and Cultural Heritage</i> , 2019, 12, 1-11.	1.2	4
48	Measurement of atomic transition probabilities with laser-induced breakdown spectroscopy using the 3D Boltzmann plot method. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 154, 91-96.	1.5	8
49	Determination of Ash Content of coal by Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 123-126.	1.5	36
50	Analysis of the middle Neolithic trichrome pottery: Characterization of the decoration using X-Ray fluorescence and Raman spectroscopy. <i>Journal of Archaeological Science: Reports</i> , 2019, 24, 192-197.	0.2	5
51	Laser-induced breakdown spectroscopy for human and animal health: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 152, 123-148.	1.5	104
52	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.	4.4	50
53	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.	0.6	11
54	Identification of inorganic dyeing mordant in textiles by surface-enhanced laser-induced breakdown spectroscopy. <i>Microchemical Journal</i> , 2018, 139, 230-235.	2.3	23

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55	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.	1.5	23
56	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.	1.5	31
57	Multi-technique characterization of madder lakes: A comparison between non- and micro-destructive methods. <i>Journal of Cultural Heritage</i> , 2018, 33, 208-212.	1.5	9
58	Real time determination of the laser ablated mass by means of electric field-perturbation measurement. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 142, 50-54.	1.5	4
59	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.	1.5	36
60	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.	1.5	42
61	Analysis of Serra d'Alto figuline pottery (Matera, Italy): Characterization of the dark decorations using XRF. <i>Microchemical Journal</i> , 2018, 137, 174-180.	2.3	16
62	Electroless deposited silver dendrites for SERS identification of natural dyes on laboratory-dyed and historic textiles. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	6
63	An Extended Kalman Filter approach to non-linear multivariate analysis of Laser-Induced Breakdown Spectroscopy spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 271-275.	1.5	6
64	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.	1.5	17
65	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.	2.5	23
66	Elemental analysis of dental amalgams by laser-induced breakdown spectroscopy technique. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 229-235.	1.5	9
67	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.	1.5	15
68	Construction and comparison of 3D multi-source multi-band models for cultural heritage applications. <i>Journal of Cultural Heritage</i> , 2018, 34, 261-267.	1.5	18
69	X-Ray Fluorescence Analysis and Self-Organizing Maps Classification of the Etruscan Gold Coin Collection at the Monetiere of Florence. <i>Applied Spectroscopy</i> , 2017, 71, 817-822.	1.2	8
70	Provenance of marbles used for building the internal spiral staircase of the bell tower of St. Nicholas Church (Pisa, Italy). <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	5
71	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.	1.5	58
72	Micro-Laser-Induced Breakdown Spectroscopy (Micro-LIBS) Study on Ancient Roman Mortars. <i>Applied Spectroscopy</i> , 2017, 71, 721-727.	1.2	35

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73	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.	1.5	38
74	Determination of electron temperature temporal evolution in laser-induced plasmas through Independent Component Analysis and 3D Boltzmann plot. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 135, 48-53.	1.5	9
75	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.	1.5	26
76	High-resolution three-dimensional compositional imaging by double-pulse laser-induced breakdown spectroscopy. <i>Journal of Instrumentation</i> , 2016, 11, C08002-C08002.	0.5	11
77	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.	1.5	44
78	Discovering "The Italian Flag" by Fernando Melani (1907-1985). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 168, 52-59.	2.0	16
79	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.	1.5	21
80	Combining Multiple Neural Networks to Predict Bronze Alloy Elemental Composition. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 345-352.	0.5	5
81	The chemical-physical knowledge before the restoration: the case of "The Plague in Lucca", a masterpiece of Lorenzo Viani (1882-1936). <i>Heritage Science</i> , 2015, 3, .	1.0	7
82	Determining the composition of bronze alloys by means of high-dimensional feature selection and Artificial Neural Networks. , 2015, , .		5
83	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.	1.1	56
84	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.	1.5	27
85	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.	1.5	18
86	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.	1.5	28
87	X-Ray Fluorescence Analysis of XII-XIV Century Italian Gold Coins. <i>Journal of Archaeology</i> , 2014, 2014, 1-6.	0.5	12
88	Extracting Time-Resolved Information from Time-Integrated Laser-Induced Breakdown Spectra. <i>Journal of Spectroscopy</i> , 2014, 2014, 1-5.	0.6	36
89	X-ray fluorescence analysis on a group of coins from the ancient roman city of <i>Tridentum</i> (Trento, Italy). <i>X-Ray Spectrometry</i> , 2014, 43, 370-374.	0.9	10
90	A multidisciplinary approach to the investigation of "La Caverna dell'Antimateria" (1958-1959) by Pinot Gallizio. <i>Heritage Science</i> , 2014, 2, .	1.0	10

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91	Characterization of historical mortars from the bell tower of St. Nicholas church (Pisa, Italy). <i>Construction and Building Materials</i> , 2014, 69, 203-212.	3.2	38
92	Reply to Ira Rabin's Comment on our paper Rasmussen et al. (2012). <i>Journal of Archaeological Science</i> , 2014, 43, 155-158.	1.2	0
93	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.	1.5	29
94	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.	1.1	21
95	Spectroscopic analysis of bones for forensic studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 70-75.	1.5	19
96	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.	1.5	42
97	An artificial neural network approach to laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 52-58.	1.5	68
98	Double and Multiple Pulse LIBS Techniques. <i>Springer Series in Optical Sciences</i> , 2014, , 117-141.	0.5	6
99	Applications of LIBS to the Analysis of Metals. <i>Springer Series in Optical Sciences</i> , 2014, , 169-193.	0.5	15
100	A Procedure for Estimating the Electron Temperature and the Departure of the LTE Condition in a Time-Dependent, Spatially Homogeneous, Optically Thin Plasma. <i>Brazilian Journal of Physics</i> , 2013, 43, 239-246.	0.7	6
101	Enhancement of hidden patterns in paintings using statistical analysis. <i>Journal of Cultural Heritage</i> , 2013, 14, S66-S70.	1.5	15
102	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.	1.5	46
103	One-point calibration for calibration-free laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 51-56.	1.5	82
104	Elemental analysis by surface-enhanced Laser-Induced Breakdown Spectroscopy combined with liquid-liquid microextraction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 79-80, 88-93.	1.5	117
105	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.	2.0	13
106	Double-pulse laser-induced breakdown spectroscopy analysis of scales from petroleum pipelines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 188-191.	1.5	6
107	Recovery of archaeological wall paintings using novel multispectral imaging approaches. <i>Heritage Science</i> , 2013, 1, .	1.0	29
108	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.	1.5	14



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109	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.	1.2	19
110	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.	1.5	48
111	LIBS analysis of twelve bronze statues displayed in the National Archaeological Museum of Crotona. <i>Optica Pura Y Aplicada</i> , 2012, 45, 277-286.	0.0	5
112	Element detection relying on information retrieval techniques applied to laser spectroscopy. , 2011, , .		1
113	Comment on "A multivariate model based on dominant factor for laser-induced breakdown spectroscopy measurements" by Zhe Wang, Jie Feng, Lizhi Li, Weidou Ni and Zheng Li, <i>J. Anal. At. Spectrom.</i> , 2011, DOI: 10.1039/c1ja10041f. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2300.	1.6	4
114	The Calculation of the Optical Depths of Homogeneous Plasmas: Analytical, Experimental, and Numerical Considerations. <i>Applied Spectroscopy</i> , 2011, 65, 1213-1217.	1.2	11
115	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.	1.1	14
116	Calibration-Free Laser-Induced Breakdown Spectroscopy: State of the art. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 1-14.	1.5	362
117	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.	1.5	59
118	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.	1.5	29
119	Local Thermodynamic Equilibrium in Laser-Induced Breakdown Spectroscopy: Beyond the McWhirter criterion. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 86-95.	1.5	514
120	Calibration free laser-induced breakdown spectroscopy of oxide materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 671-679.	1.5	124
121	Hydrogen Balmer $H\alpha$ line behavior in Laser-Induced Breakdown Spectroscopy depth scans of Au, Cu, Mn, Pb targets in air. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 557-564.	1.5	10
122	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.	1.5	54
123	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.	1.2	29
124	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.	1.3	47
125	Fast Quantitative Analysis Of Museum Objects Using Laser-Induced Breakdown Spectroscopy And Multiple Regression Algorithms. , 2009, , .		0
126	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.	1.5	28



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127	Comments on the paper: "Accurate quantitative analysis of gold alloys using multi-pulse laser-induced breakdown spectroscopy and a correlation-based calibration method". Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 357-358.	1.5	4
128	Towards a calibration-less ICP-AES method for the determination of trace elements in aqueous solutions: Double ratio plasma diagnostics combined with an internal standard. Journal of Analytical Atomic Spectrometry, 2009, 24, 655.	1.6	10
129	Spatial distribution of hydrogen and other emitters in aluminum laser-induced plasma in air and consequences on spatially integrated Laser-Induced Breakdown Spectroscopy measurements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 980-987.	1.5	69
130	Wood coated with plasma-polymer for water repellence. Wood Science and Technology, 2008, 42, 149-160.	1.4	39
131	Effect of target composition on the emission enhancement observed in Double-Pulse Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 312-323.	1.5	65
132	Multi-diagnostic approach to characterize the onset of formation of nanoparticles in a premixed laminar ethylene/air flame. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 191-201.	1.5	8
133	Observation of different mass removal regimes during the laser ablation of an aluminium target in air. Journal of Analytical Atomic Spectrometry, 2008, 23, 1518.	1.6	71
134	Dynamics of Spatially and Temporally Resolved Laser Induced Al-plasma. AIP Conference Proceedings, 2007, , .	0.3	2
135	Measurement of the Stark Broadening of Atomic Emission Lines in Non-Optically Thin Plasmas by Laser-Induced Breakdown Spectroscopy. Spectroscopy Letters, 2007, 40, 643-658.	0.5	15
136	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. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 435-443.	1.5	33
137	In situ study of the Porticello Bronzes by portable X-ray fluorescence and laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1512-1518.	1.5	55
138	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.	1.5	204
139	Measurement of Stark broadening of Mn I and Mn II spectral lines in plasmas used for Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1237-1245.	1.5	38
140	Accurate measurement of magnesium content in alpha-olefins by laser induced breakdown spectroscopy (LIBS) technique. Optoelectronics Letters, 2007, 3, 222-226.	0.4	4
141	Real time measurement of the electron density of a laser generated plasma using a RC circuit. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 836-840.	1.5	23
142	Resolving surface details with reflection and fluorescence video-confocal profilometry. Micron, 2007, 38, 104-108.	1.1	2
143	Quantitative analysis of aluminium alloys by low-energy, high-repetition rate laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2006, 21, 697.	1.6	60
144	Double pulse, calibration-free laser-induced breakdown spectroscopy: A new technique for in situ standard-less analysis of polluted soils. Applied Geochemistry, 2006, 21, 748-755.	1.4	102

#	ARTICLE	IF	CITATIONS
145	Spectroscopic Techniques Applied to the Study of Italian Painted Neolithic Potteries. <i>Laser Chemistry</i> , 2006, 2006, 1-7.	0.5	9
146	<title>New perspectives in LIBS analysis of polluted soils</title>. , 2006, 6284, 40.		1
147	<title>Quantitative LIBS analysis of samples from a Le Sueur bronze</title>. , 2006, , .		2
148	<title>On the enhancement of laser induced breakdown spectroscopy signal in double pulse configuration</title>. , 2006, , .		1
149	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.	1.5	81
150	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.	1.5	39
151	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
152	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.	1.1	51
153	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.	1.9	72
154	ModA: a new mobile instrument for in situ double-pulse LIBS analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 240-247.	1.9	105
155	Laser-Induced Breakdown Spectroscopy (LIBS). , 2006, , .		778
156	Reconstruction of laser-induced plasma spectral emissivity in non-axisymmetric conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 888-896.	1.5	18
157	Comment on "three-dimensional analysis of laser induced plasmas in single and double pulse configuration". <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 870-872.	1.5	7
158	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.	1.1	83
159	Authors' reply to Wen et al.'s comment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 872-875.	1.5	7
160	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.	1.5	112
161	Evaluation of self-absorption coefficients of aluminum emission lines in laser-induced breakdown spectroscopy measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1573-1579.	1.5	261
162	Archaeometric Analysis of Ancient Copper Artefacts by Laser-Induced Breakdown Spectroscopy Technique. <i>Mikrochimica Acta</i> , 2005, 152, 105-111.	2.5	47

#	ARTICLE	IF	CITATIONS
163	Modi: a new mobile instrument for in situ standardless LIBS analysis of cultural heritage. , 2005, , .		3
164	Effect of Laser-Induced Crater Depth in Laser-Induced Breakdown Spectroscopy Emission Features. Applied Spectroscopy, 2005, 59, 853-860.	1.2	99
165	Three-dimensional analysis of laser induced plasmas in single and double pulse configuration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 723-735.	1.5	150
166	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.	1.5	145
167	Laser-induced breakdown spectroscopy: an introduction to the feature issue. Applied Optics, 2003, 42, 5937.	2.1	18
168	Application of laser-induced breakdown spectroscopy technique to hair tissue mineral analysis. Applied Optics, 2003, 42, 6133.	2.1	119
169	Temporal and Spatial Evolution of a Laser-Induced Plasma from a Steel Target. Applied Spectroscopy, 2003, 57, 715-721.	1.2	44
170	Analysis of biological tissues by laser induced breakdown spectroscopy technique. , 2003, , .		1
171	Calibration Free Laser Induced Plasma Spectroscopy: A New Method for Combustion Products Analysis. Clean Air, 2002, 3, 69-79.	0.0	20
172	LIBS analysis of lichens as bioindicators of environmental pollution. , 2002, , ThE13.		0
173	A procedure for correcting self-absorption in calibration free-laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 339-353.	1.5	293
174	Quantitative micro-analysis by laser-induced breakdown spectroscopy: a review of the experimental approaches. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1115-1130.	1.5	398
175	Study of foxing stains on paper by chemical methods, infrared spectroscopy, micro-X-ray fluorescence spectrometry and laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1235-1249.	1.5	40
176	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
177	LIBS-Raman spectroscopic analysis of pigments in a Roman fresco. , 2001, , .		7
178	A fast and accurate method for the determination of precious alloys caratage by Laser Induced Plasma Spectroscopy. European Physical Journal D, 2001, 13, 373-377.	0.6	77
179	Characterization of azurite and lazurite based pigments by laser induced breakdown spectroscopy and micro-Raman spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 915-922.	1.5	95
180	Calibration-free laser-induced plasma spectroscopy: a new frontier for material analysis, environmental protection, and cultural heritage conservation. , 2000, , .		3

#	ARTICLE	IF	CITATIONS
181	An analytic model of coupling of intense ion beams with spherical plasma target. Laser and Particle Beams, 2000, 18, 21-24.	0.4	0
182	Self-calibrated quantitative elemental analysis by laser-induced plasma spectroscopy: application to pigment analysis. Journal of Cultural Heritage, 2000, 1, S281-S286.	1.5	80
183	Fast and Precise Determination of Painted Artwork Composition by Laser Induced Plasma Spectroscopy. , 2000, , 139-142.		1
184	New Procedure for Quantitative Elemental Analysis by Laser-Induced Plasma Spectroscopy. Applied Spectroscopy, 1999, 53, 960-964.	1.2	736
185	CF-LIPS: A new approach to LIPS spectra analysis. Laser and Particle Beams, 1999, 17, 793-797.	0.4	39
186	Trace Element Analysis in Water by the Laser-Induced Breakdown Spectroscopy Technique. Applied Spectroscopy, 1997, 51, 1102-1105.	1.2	166
187	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
188	<title>Laser-induced breakdown spectroscopy: a new and powerful technique for pollutant diagnostics</title>. , 1996, 2772, 286.		0
189	Propagation of electromagnetic waves in inhomogeneous plasmas. Journal of Plasma Physics, 1994, 52, 443-456.	0.7	6
190	Detection of mercury in air by time-resolved laser-induced breakdown spectroscopy technique. Laser and Particle Beams, 1994, 12, 525-530.	0.4	52
191	Scaling laws considering thermal radiation influence for spherical pinch experiments. Journal of Fusion Energy, 1994, 13, 39-44.	0.5	1
192	Fast detection in the near and medium infrared by means of transverse dember effect in anisotropic PbS and PbSe films. Infrared Physics, 1993, 34, 137-141.	0.5	5
193	Theoretical study of electromagnetic waves propagation in random layered media. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 172, 256-262.	0.9	2
194	Comment on "Numerical method for colored-noise generation and its application to a bistable system". Physical Review A, 1992, 46, 8028-8030.	1.0	12
195	Derivation of the critical angle for Mach reflection for strong shock waves. Physical Review A, 1992, 45, 6130-6132.	1.0	18
196	Simulation and experimental studies on the evolution of a laser spark in air. Laser and Particle Beams, 1992, 10, 707-713.	0.4	3
197	Numerical solution of the Fokker-Planck equation. II. Multidimensional case. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 163, 381-391.	0.9	19
198	Mach reflection phenomenon in the interaction of spherical shock waves in air. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 89-95.	0.9	9

#	ARTICLE	IF	CITATIONS
199	Non-integer moments of the first passage time distribution in non-Markov systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 133-138.	0.9	0
200	Hydrodynamic Effects on Thermalisation of Dense Core with Surrounding Corona in Laser-Imploded Z-layered Plasma Target. Contributions To Plasma Physics, 1991, 31, 423-427.	0.5	1
201	On the process of Mach wave generation in air. Laser and Particle Beams, 1991, 9, 453-464.	0.4	2
202	Hydrodynamics of laser-produced shock waves in water: Reflection and transmission measurements. Journal of Applied Physics, 1991, 69, 1660-1665.	1.1	5
203	Scaling laws for spherical pinch experiments. Laser and Particle Beams, 1991, 9, 435-442.	0.4	2
204	Time-resolved LIBS experiment for quantitative determination of pollutant concentrations in air. Laser and Particle Beams, 1991, 9, 633-639.	0.4	50
205	Theoretical and Experimental Studies on the Cold Nuclear Fusion Phenomena. Fusion Science and Technology, 1990, 17, 704-709.	0.6	2
206	Interaction of imploding shock waves with expanding central plasma in spherical pinch experiments: Simulation analysis. Journal of Fusion Energy, 1990, 9, 513-516.	0.5	7
207	Numerical solution of the Fokker-Planck equation: A fast and accurate algorithm. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 146, 378-386.	0.9	39
208	A plasma model of the process of cold nuclear fusion in metals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 148, 345-350.	0.9	0
209	Beyond the linear approximations of the conventional approaches to the theory of chemical relaxation. Journal of Chemical Physics, 1990, 92, 3427-3441.	1.2	14
210	Kramers problem for overdamped systems driven by correlated noise: Results for vanishing diffusion coefficients. Physical Review A, 1990, 42, 5946-5954.	1.0	15
211	Thermal effects of hot electron halo in a laser-imploded Z-layered plasma pellet. Laser and Particle Beams, 1990, 8, 421-426.	0.4	0
212	Hydrodynamic evolution of laser driven diverging shock waves. Laser and Particle Beams, 1990, 8, 247-252.	0.4	7
213	The spherical pinch: Generalized scaling laws and experimental verification of the stability of imploding shock waves in spherical geometry. Laser and Particle Beams, 1990, 8, 253-263.	0.4	9
214	Hydrodynamics of supercritical region in laser ablated plasmas. Laser and Particle Beams, 1989, 7, 589-595.	0.4	0
215	Mean first-passage time in a bistable system driven by strongly correlated noise: Introduction of a fluctuating potential. Physical Review A, 1989, 39, 3751-3753.	1.0	15
216	Tsironiset al. reply. Physical Review Letters, 1989, 63, 217-217.	2.9	0

#	ARTICLE	IF	CITATIONS
217	Mean first-passage time for random-walk span: Comparison between theory and numerical experiment. <i>Physical Review A</i> , 1989, 40, 4685-4689.	1.0	6
218	Threshold effects in the transport of energy from a hot to a cold oscillator: Theory with analog and digital simulation. <i>Physical Review A</i> , 1989, 39, 2097-2111.	1.0	6
219	Investigation of the dynamics of converging shock waves in spherical and annular configurations. <i>Journal Physics D: Applied Physics</i> , 1989, 22, 1451-1455.	1.3	2
220	Mean first passage time for bound non-Markovian stochastic processes with superimposed shot noise. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 138, 381-386.	0.9	3
221	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
222	Experimental studies on shock wave propagation in laser produced plasmas using double wavelength holography. <i>Optics Communications</i> , 1989, 71, 76-80.	1.0	22
223	Dynamics of laser-driven shock waves in water. <i>Journal of Applied Physics</i> , 1989, 66, 5194-5197.	1.1	26
224	Fast and precise algorithm for computer simulation of stochastic differential equations. <i>Physical Review A</i> , 1989, 40, 3381-3386.	1.0	193
225	The projection operator approach to the Fokker-Planck equation. II. Dichotomic and nonlinear Gaussian noise. <i>Journal of Statistical Physics</i> , 1988, 52, 979-1003.	0.5	9
226	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.	0.9	14
227	Spherical shock waves in laser produced plasmas in gas. <i>Optics Communications</i> , 1988, 69, 141-146.	1.0	44
228	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
229	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.	0.9	11
230	Flux conduction effect on laser-induced density profile and plasma ablation near plasma resonance layer. <i>Plasma Physics and Controlled Fusion</i> , 1988, 30, 399-406.	0.9	0
231	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.	0.9	20
232	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
233	Almost Critical Behavior of the Anchoring Energy at the Interface between a Nematic Liquid Crystal and a SiO Substrate. <i>Physical Review Letters</i> , 1985, 55, 1681-1684.	2.9	117
234	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

#	ARTICLE	IF	CITATIONS
235	A new torsion pendulum technique to measure the twist elastic constant of liquid crystals. Journal De Physique (Paris), Lettres, 1985, 46, 881-886.	2.8	23
236	Measurements of the interfacial tension between nematic and isotropic phase of some cyanobiphenyls. Journal of Chemical Physics, 1984, 81, 6254-6258.	1.2	42
237	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.	1.0	129
238	Molecular orientation and anchoring energy at the nematic-isotropic interface of 7CB. Journal De Physique (Paris), Lettres, 1984, 45, 313-318.	2.8	36
239	Multiplicative stochastic processes: On the correlation time as a function of noise intensity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 25-28.	0.9	19
240	Detection of pollutants in liquids by laser induced breakdown spectroscopy technique. , 0, , .		6
241	Detection of environmental contaminants by time resolved laser induced breakdown spectroscopy technique. , 0, , .		4
242	New spectral detectors for LIBS. , 0, , 556-584.		0
243	Cultural heritage applications of LIBS. , 0, , 332-367.		1
244	Civilian and military environmental contamination studies using LIBS. , 0, , 368-399.		0
245	Industrial applications of LIBS. , 0, , 400-439.		1
246	From sample to signal in laser-induced breakdown spectroscopy: a complex route to quantitative analysis. , 0, , 122-170.		3
247	History and fundamentals of LIBS. , 0, , 1-39.		7
248	Application of Graph Theory to the elaboration of personal genomic data for genealogical research. PeerJ Computer Science, 0, 1, e27.	2.7	2
249	The Source Materials for Lime Production in the Monte Pisano Area (NW Tuscany, Italy). IOP Conference Series: Earth and Environmental Science, 0, 609, 012078.	0.2	0