

Vincent Detalle

List of Publications by Year in descending order

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74
papers

1,686
citations

331259

21
h-index

301761

39
g-index

75
all docs

75
docs citations

75
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced laser-induced breakdown spectroscopy using the combination of fourth-harmonic and fundamental Nd:YAG laser pulses. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 121-135.	1.5	221
2	Experimental investigations of laser ablation efficiency of pure metals with femto, pico and nanosecond pulses. <i>Applied Surface Science</i> , 1999, 138-139, 311-314.	3.1	183
3	Laser-induced breakdown spectroscopy for polymer identification. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3331-3340.	1.9	100
4	An evaluation of a commercial Å%chelle spectrometer with intensified charge-coupled device detector for materials analysis by laser-induced plasma spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 1011-1025.	1.5	96
5	Chromatic alterations of red lead pigments in artworks: a review. <i>Phase Transitions</i> , 2008, 81, 145-154.	0.6	82
6	Stimulated infrared thermography applied to help restoring mural paintings. <i>NDT and E International</i> , 2012, 49, 40-46.	1.7	59
7	An example of the complementarity of laser-induced breakdown spectroscopy and Raman microscopy for wall painting pigments analysis. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 909-915.	1.2	51
8	Comparative study of two new commercial echelle spectrometers equipped with intensified CCD for analysis of laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2003, 42, 6094.	2.1	50
9	Evaluation of the standard normal variate method for Laser-Induced Breakdown Spectroscopy data treatment applied to the discrimination of painting layers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 114, 38-45.	1.5	49
10	Study of ultrathin polyamide-6,6 films on clean copper and platinum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 353-364.	0.9	47
11	Non-destructive testing of works of art by stimulated infrared thermography. <i>EPJ Applied Physics</i> , 2012, 57, 21002.	0.3	47
12	Chemometrics and Laser Induced Breakdown Spectroscopy (LIBS) Analyses for Identification of Wall Paintings Pigments. <i>Current Analytical Chemistry</i> , 2010, 6, 60-65.	0.6	45
13	Correlation between native bonds in a polymeric material and molecular emissions from the laser-induced plasma observed with space and time resolved imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 31-37.	1.5	43
14	Laser ablation efficiency of metal samples with UV laser nanosecond pulses. <i>Applied Surface Science</i> , 1999, 138-139, 302-305.	3.1	38
15	Low-coherence interferometry “an advanced technique for optical metrology in industry. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2005, 47, 216-219.	0.3	36
16	Near-crater discoloration of white lead in wall paintings during laser induced breakdown spectroscopy analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1590-1596.	1.5	32
17	Dual-wavelength differential spectroscopic imaging for diagnostics of laser-induced plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 11-17.	1.5	30
18	Analysis of heritage stones and model wall paintings by pulsed laser excitation of Raman, laser-induced fluorescence and laser-induced breakdown spectroscopy signals with a hybrid system. <i>Journal of Cultural Heritage</i> , 2018, 32, 1-8.	1.5	29

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19	Influence of Er:YAG and Nd:YAG wavelengths on laser-induced breakdown spectroscopy measurements under air or helium atmosphere. <i>Applied Optics</i> , 2003, 42, 5971.	2.1	28
20	Cultural Heritage Applications of LIBS. <i>Springer Series in Optical Sciences</i> , 2014, , 531-554.	0.5	27
21	Toward a multimodal fusion of layered cultural object images: complementarity of optical coherence tomography and terahertz time-domain imaging in the heritage field. <i>Applied Optics</i> , 2019, 58, 1281.	0.9	22
22	Trace element quantification of lead based roof sheets of historical monuments by Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 34-42.	1.5	21
23	The assets of laser-induced breakdown spectroscopy (LIBS) for the future of heritage science. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 191, 106407.	1.5	21
24	<title>Laser ablation efficiency of pure metals with femtosecond, picosecond, and nanosecond pulses</title>. , 1998, 3343, 1049.		19
25	Characterization of defects situated in a fresco by stimulated infrared thermography. <i>EPJ Applied Physics</i> , 2012, 57, 11002.	0.3	19
26	Non-destructive Testing by Infrared Thermography Under Random Excitation and ARMA Analysis. <i>International Journal of Thermophysics</i> , 2012, 33, 2011-2015.	1.0	18
27	Investigation of laser plasma for solid element composition microanalysis. <i>Applied Surface Science</i> , 1999, 138-139, 299-301.	3.1	15
28	Technical study of Germollesâ€™ wall paintings: the input of imaging technique. <i>Virtual Archaeology Review</i> , 2016, 7, 1.	0.8	15
29	Stimulated infrared thermography applied to thermophysical characterization of cultural heritage mural paintings. <i>EPJ Applied Physics</i> , 2012, 60, 21003.	0.3	14
30	Characterization of an Inclusion of Plastazote Located in an Academic Fresco by Photothermal Thermography. <i>International Journal of Thermophysics</i> , 2013, 34, 1633-1637.	1.0	14
31	Calcium alkoxides as alternative consolidants for wall paintings: Evaluation of their performance in laboratory and on site, on model and original samples, in comparison to conventional products. <i>Journal of Cultural Heritage</i> , 2018, 29, 54-66.	1.5	14
32	Influence of ns-laser wavelength in laser-induced breakdown spectroscopy for discrimination of painting techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 81-90.	1.5	13
33	Novel approach of signal normalization for depth profile of cultural heritage materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 127, 28-33.	1.5	13
34	Laser-induced emission, fluorescence and Raman hybrid setup: A versatile instrument to analyze materials from cultural heritage. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 44-53.	1.5	13
35	Photothermal Thermography Applied to the Non-destructive Testing of Different Types of Works of Art. <i>International Journal of Thermophysics</i> , 2012, 33, 1996-2000.	1.0	12
36	Non destructive testing in situ, of works of art by stimulated infra-red thermography. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012068.	0.3	11

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37	Improvement of the Non-Destructive Testing of Heritage Mural Paintings Using Stimulated Infrared Thermography and Frequency Image Processing. <i>Journal of Imaging</i> , 2019, 5, 72.	1.7	10
38	A non-invasive multi-technique investigation of Banqueting House Whitehall Rubens ceiling paintings. <i>Microchemical Journal</i> , 2020, 156, 104797.	2.3	10
39	Non-destructive Testing of Forged Metallic Materials by Active Infrared Thermography. <i>International Journal of Thermophysics</i> , 2012, 33, 1982.	1.0	9
40	Contribution to the improvement of heritage mural painting non-destructive testing by stimulated infrared thermography. <i>EPJ Applied Physics</i> , 2013, 64, 11002.	0.3	9
41	Terahertz applications in cultural heritage: case studies. <i>Proceedings of SPIE</i> , 2013, , .	0.8	8
42	Terahertz analysis of stratified wall plaster at buildings of cultural importance across Europe. , 2013, , .		8
43	Cyclododecane as a Contrast Improving Substance for the Terahertz Imaging of Artworks. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 1005-1011.	2.0	6
44	The first evaluation of diagenesis rate of ancient bones by laser-induced breakdown spectroscopy in archaeological context prior to radiocarbon dating. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105606.	1.5	6
45	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6
46	Infra-red photothermal thermography: A tool of assistance for the restoration of murals paintings?. , 2006, , .		6
47	<title>Experimental investigation of laser ablation efficiency of metals</title>. , 1998, , .		5
48	Approach of the measurement of thermal diffusivity of mural paintings by front face photothermal radiometry. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012094.	0.3	5
49	Aesthetic compatibility assessment of consolidants for wall paintings by means of multivariate analysis of colorimetric data. <i>Chemistry Central Journal</i> , 2018, 12, 98.	2.6	5
50	A Combined Non-Invasive Approach to the Study of A Mosaic Model: First Laboratory Experimental Results. <i>Journal of Imaging</i> , 2019, 5, 58.	1.7	5
51	Impact of laser-induced breakdown spectroscopy implementation for the quantification of carbon content distribution in archaeological ferrous metals. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 172, 105964.	1.5	4
52	<title>Influence of laser pulse duration on the ablation efficiency of metals</title>. , 1998, , .		3
53	Rear-Face Photothermal Analysis Under Random Excitation and Parametric Analysis: Application to Thermal-Diffusivity Measurement. <i>International Journal of Thermophysics</i> , 2012, 33, 1976-1981.	1.0	3
54	Case study of Sainte-Marie Chapel, Fontaine Chaalis (France): complementarity of different optical techniques. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3

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55	LIBS-LIF-Raman: a new tool for the future E-RIHS. , 2017, , .		3
56	Insights into the Blanching of Water-Damaged Varnish by Means of Spectral-Domain Optical Coherence Tomography. Studies in Conservation, 2020, , 1-10.	0.6	3
57	Non destructive testing of works of art by terahertz analysis. EPJ Applied Physics, 2013, 64, 21001.	0.3	3
58	Nd:YAG vs Er:YAG : a comparative study of laser varnish removal on easel paintings. , 2019, , .		3
59	Continuous wave laser thermal restoration of oxidized lead-based pigments in mural paintings. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	3
60	Influence of the Electronic Structure of the Metal at the Polymer/Metal Interface: A Tentative Interpretation on the Basis of Lewis Acid-Base Reactions. Journal of Adhesion, 1998, 66, 275-287.	1.8	2
61	Periodic variations of plasma optical emission during repetitive pulsed-laser irradiation of aluminum in ambient air. Applied Physics A: Materials Science and Processing, 2004, 79, 1361-1364.	1.1	2
62	Terahertz and multispectral imaging of a Tanda painting. Proceedings of SPIE, 2015, , .	0.8	2
63	Laser-induced breakdown spectroscopy: A new tool for materials analysis. , 2003, , .		1
64	Terahertz pulse investigation of Paleolithic wall etchings. , 2014, , .		1
65	Combination of interferometry and thermography data for cultural heritage structural diagnostic research. Proceedings of SPIE, 2017, , .	0.8	1
66	Mapping of Defect Structural Micro-morphology in the Documentation of Conservation Approaches. Lecture Notes in Computer Science, 2012, , 86-96.	1.0	1
67	Terahertz time domain imaging and optical coherence tomography for the subsurface noninvasive inspection of a 21st dynasty Egyptian coffin. , 2019, , .		1
68	Comparative study on quantitative carbon content mapping in archaeological ferrous metals with laser-induced plasma spectroscopy (LIBS) and nuclear reaction analysis (NRA) for 3D representation by LIBS. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 194, 106454.	1.5	1
69	New spectral detectors for LIBS. , 0, , 556-584.		0
70	Application of laser in conservation and restoration of historical building. Proceedings of SPIE, 2010, , .	0.8	0
71	Cyclododecane as a reversible contrast enhancer for the terahertz imaging of frescos. , 2015, , .		0
72	Detecting capacity of THz method applied to art painting. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
73	Stimulated infrared thermography application to the conservation of heritage wall paintings: interest of a material and software combined approach. , 2019, , .		0
74	Follow-up of restoration of works of art of the patrimony by infrared thermography. , 2019, , .		0