

# 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	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
2	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 194, 106454.	1.5	1
3	Detecting capacity of THz method applied to art painting. , 2021, , .		0
4	Continuous wave laser thermal restoration of oxidized lead-based pigments in mural paintings. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	1.1	3
5	Insights into the Blanching of Water-Damaged Varnish by Means of Spectral-Domain Optical Coherence Tomography. <i>Studies in Conservation</i> , 2020, , 1-10.	0.6	3
6	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
7	A non-invasive multi-technique investigation of Banqueting House Whitehall Rubens ceiling paintings. <i>Microchemical Journal</i> , 2020, 156, 104797.	2.3	10
8	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
9	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
10	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
11	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6
12	Nd:YAG vs Er:YAG : a comparative study of laser varnish removal on easel paintings. , 2019, , .		3
13	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
14	Terahertz time domain imaging and optical coherence tomography for the subsurface noninvasive inspection of a 21st dynasty Egyptian coffin. , 2019, , .		1
15	Stimulated infrared thermography application to the conservation of heritage wall paintings: interest of a material and software combined approach. , 2019, , .		0
16	Follow-up of restoration of works of art of the patrimony by infrared thermography. , 2019, , .		0
17	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
18	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

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19	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
20	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
21	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
22	LIBS-LIF-Raman: a new tool for the future E-RIHS. , 2017, , .		3
23	Combination of interferometry and thermography data for cultural heritage structural diagnostic research. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
24	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
25	Technical study of Germolles™ wall paintings: the input of imaging technique. <i>Virtual Archaeology Review</i> , 2016, 7, 1.	0.8	15
26	Case study of Sainte-Marie Chapel, Fontaine Chaalis (France): complementarity of different optical techniques. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
27	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
28	Cyclododecane as a reversible contrast enhancer for the terahertz imaging of frescos. , 2015, , .		0
29	Terahertz and multispectral imaging of a Tanda painting. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
30	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
31	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
32	Terahertz pulse investigation of Paleolithic wall etchings. , 2014, , .		1
33	Cultural Heritage Applications of LIBS. <i>Springer Series in Optical Sciences</i> , 2014, , 531-554.	0.5	27
34	Terahertz applications in cultural heritage: case studies. <i>Proceedings of SPIE</i> , 2013, , .	0.8	8
35	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
36	Terahertz analysis of stratified wall plaster at buildings of cultural importance across Europe. , 2013, , .		8

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37	Contribution to the improvement of heritage mural painting non-destructive testing by stimulated infrared thermography. EPJ Applied Physics, 2013, 64, 11002.	0.3	9
38	Non destructive testing of works of art by terahertz analysis. EPJ Applied Physics, 2013, 64, 21001.	0.3	3
39	Non-destructive testing of works of art by stimulated infrared thermography. EPJ Applied Physics, 2012, 57, 21002.	0.3	47
40	Non-destructive Testing by Infrared Thermography Under Random Excitation and ARMA Analysis. International Journal of Thermophysics, 2012, 33, 2011-2015.	1.0	18
41	Non-destructive Testing of Forged Metallic Materials by Active Infrared Thermography. International Journal of Thermophysics, 2012, 33, 1982.	1.0	9
42	Rear-Face Photothermal Analysis Under Random Excitation and Parametric Analysis: Application to Thermal-Diffusivity Measurement. International Journal of Thermophysics, 2012, 33, 1976-1981.	1.0	3
43	Photothermal Thermography Applied to the Non-destructive Testing of Different Types of Works of Art. International Journal of Thermophysics, 2012, 33, 1996-2000.	1.0	12
44	Dual-wavelength differential spectroscopic imaging for diagnostics of laser-induced plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 11-17.	1.5	30
45	Correlation between native bonds in a polymeric material and molecular emissions from the laser-induced plasma observed with space and time resolved imaging. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 31-37.	1.5	43
46	Characterization of defects situated in a fresco by stimulated infrared thermography. EPJ Applied Physics, 2012, 57, 11002.	0.3	19
47	Stimulated infrared thermography applied to thermophysical characterization of cultural heritage mural paintings. EPJ Applied Physics, 2012, 60, 21003.	0.3	14
48	Stimulated infrared thermography applied to help restoring mural paintings. NDT and E International, 2012, 49, 40-46.	1.7	59
49	Mapping of Defect Structural Micro-morphology in the Documentation of Conservation Approaches. Lecture Notes in Computer Science, 2012, , 86-96.	1.0	1
50	Laser-induced breakdown spectroscopy for polymer identification. Analytical and Bioanalytical Chemistry, 2011, 400, 3331-3340.	1.9	100
51	Non destructive testing in situ, of works of art by stimulated infra-red thermography. Journal of Physics: Conference Series, 2010, 214, 012068.	0.3	11
52	Approach of the measurement of thermal diffusivity of mural paintings by front face photothermal radiometry. Journal of Physics: Conference Series, 2010, 214, 012094.	0.3	5
53	Application of laser in conservation and restoration of historical building. Proceedings of SPIE, 2010, , .	0.8	0
54	Chemometrics and Laser Induced Breakdown Spectroscopy (LIBS) Analyses for Identification of Wall Paintings Pigments. Current Analytical Chemistry, 2010, 6, 60-65.	0.6	45

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55	Chromatic alterations of red lead pigments in artworks: a review. <i>Phase Transitions</i> , 2008, 81, 145-154.	0.6	82
56	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
57	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
58	Infra-red photothermal thermography: A tool of assistance for the restoration of murals paintings?. , 2006, , .		6
59	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
60	Periodic variations of plasma optical emission during repetitive pulsed-laser irradiation of aluminum in ambient air. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1361-1364.	1.1	2
61	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
62	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
63	Laser-induced breakdown spectroscopy: A new tool for materials analysis. , 2003, , .		1
64	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
65	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
66	Investigation of laser plasma for solid element composition microanalysis. <i>Applied Surface Science</i> , 1999, 138-139, 299-301.	3.1	15
67	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
68	Laser ablation efficiency of metal samples with UV laser nanosecond pulses. <i>Applied Surface Science</i> , 1999, 138-139, 302-305.	3.1	38
69	Influence of the Electronic Structure of the Metal at the Polymer/Metal Interface: A Tentative Interpretation on the Basis of Lewis Acid-Base Reactions. <i>Journal of Adhesion</i> , 1998, 66, 275-287.	1.8	2
70	<title>Experimental investigation of laser ablation efficiency of metals</title>. , 1998, , .		5
71	<title>Laser ablation efficiency of pure metals with femtosecond, picosecond, and nanosecond pulses</title>. , 1998, 3343, 1049.		19
72	<title>Influence of laser pulse duration on the ablation efficiency of metals</title>. , 1998, , .		3

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73	Study of ultrathin polyamide-6,6 films on clean copper and platinum. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 353-364.	0.9	47
74	New spectral detectors for LIBS. , 0, , 556-584.		0