

Costanza Cucci

List of Publications by Year in descending order

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64
papers

1,214
citations

430874

18
h-index

414414

32
g-index

65
all docs

65
docs citations

65
times ranked

1150
citing authors

#	ARTICLE	IF	CITATIONS
1	Reflectance hyperspectral data processing on a set of Picasso paintings: which algorithm provides what? A comparative analysis of multivariate, statistical and artificial intelligence methods. , 2021, , .		2
2	“Ecce Homo” by Antonello da Messina, from non-invasive investigations to data fusion and dissemination. Scientific Reports, 2021, 11, 15868.	3.3	15
3	A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. IEEE Access, 2021, 9, 123438-123447.	4.2	22
4	Noninvasive Analytical and Diagnostic Technologies for Studying Early Renaissance Wall Paintings. Surveys in Geophysics, 2020, 41, 669-693.	4.6	8
5	Macro X-ray fluorescence and VNIR hyperspectral imaging in the investigation of two panels by Marco d'Oggiono. Microchemical Journal, 2020, 154, 104541.	4.5	15
6	How Good Are RGB Cameras Retrieving Colors of Natural Scenes and Paintings? A Study Based on Hyperspectral Imaging. Sensors, 2020, 20, 6242.	3.8	2
7	Assessing Laser Cleaning of a Limestone Monument by Fiber Optics Reflectance Spectroscopy (FORS) and Visible and Near-Infrared (VNIR) Hyperspectral Imaging (HSI). Minerals (Basel, Switzerland), 2020, 10, 1052.	2.0	5
8	An Alternative Phase-Sensitive THz Imaging Technique for Art Conservation: History and New Developments at the ENEA Center of Frascati. Applied Sciences (Switzerland), 2020, 10, 7661.	2.5	9
9	Hyper-Spectral Imaging Technique in the Cultural Heritage Field: New Possible Scenarios. Sensors, 2020, 20, 2843.	3.8	69
10	Evaluation of the efficacy and durability of the barium hydroxide method after 40 years. Multi-analytical survey on the Crocifissione by Beato Angelico. Journal of Cultural Heritage, 2020, 45, 362-369.	3.3	6
11	Remote-sensing hyperspectral imaging for applications in archaeological areas: Non-invasive investigations on wall paintings and on mural inscriptions in the Pompeii site. Microchemical Journal, 2020, 158, 105082.	4.5	40
12	Documentation and analysis of some Picasso's paintings by using hyperspectral imaging technique to support their conservation and stylistic matters. IOP Conference Series: Materials Science and Engineering, 2020, 949, 012023.	0.6	1
13	Terahertz time-domain imaging of “The Last Supper”, 2020, , .		6
14	Development of dose-response functions for historic paper degradation using exposure to natural conditions and multivariate regression. Polymer Degradation and Stability, 2019, 168, 108944.	5.8	12
15	Short-wave infrared reflectance hyperspectral imaging for painting investigations: A methodological study. Journal of the American Institute for Conservation, 2019, 58, 16-36.	0.5	15
16	Elucidating the composition and the state of conservation of nitrocellulose-based animation cells by means of non-invasive and micro-destructive techniques. Journal of Cultural Heritage, 2019, 35, 254-262.	3.3	14
17	Hyperspectral imaging for artworks investigation. Data Handling in Science and Technology, 2019, 32, 583-604.	3.1	22
18	Merging of imaging techniques based on reflectance hyperspectral and neutron tomography for characterization of a modern replica of a 13th century knife from Croatia. , 2019, , .		0

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19	The illuminated manuscript Corale 43 and its attribution to Beato Angelico: Non-invasive analysis by FORS, XRF and hyperspectral imaging techniques. <i>Microchemical Journal</i> , 2018, 138, 45-57.	4.5	29
20	Investigation on water content in fresco mock-ups in the microwave and near-IR spectral regions. <i>Measurement Science and Technology</i> , 2017, 28, 024003.	2.6	4
21	When It Is Not Only About Color: The Importance of Hyperspectral Imaging Applied to the Investigation of Paintings. <i>Lecture Notes in Computer Science</i> , 2017, , 175-183.	1.3	1
22	Insights on the Side Panels of the Franciscan Triptych by Fra Angelico Using Terahertz Time-Domain Imaging (THz-TDI). <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 413-424.	2.2	7
23	Bridging research with innovative products: a compact hyperspectral camera for investigating artworks: a feasibility study. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
24	Fra Angelico's painting technique revealed by terahertz time-domain imaging (THz-TDI). <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	7
25	Reflectance Hyperspectral Imaging for Investigation of Works of Art: Old Master Paintings and Illuminated Manuscripts. <i>Accounts of Chemical Research</i> , 2016, 49, 2070-2079.	15.6	214
26	Non-invasive Florentine Renaissance Panel Painting Replica Structures Investigation by Using Terahertz Time-Domain Imaging (THz-TDI) Technique. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 1148-1156.	2.2	9
27	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
28	The Colors of Keith Haring: A Spectroscopic Study on the Materials of the Mural Painting <i>Tuttomondo</i> and on Reference Contemporary Outdoor Paints. <i>Applied Spectroscopy</i> , 2016, 70, 186-196.	2.2	34
29	Multivariate analysis of combined reflectance FT-NIR and micro-Raman spectra on oil-paint models. <i>Microchemical Journal</i> , 2016, 124, 703-711.	4.5	14
30	Study of semi-synthetic plastic objects of historic interest using non-invasive total reflectance FT-IR. <i>Microchemical Journal</i> , 2016, 124, 889-897.	4.5	17
31	Multivariate Analysis of Combined Fourier Transform Near-Infrared Spectrometry (FT-NIR) and Raman Datasets for Improved Discrimination of Drying Oils. <i>Applied Spectroscopy</i> , 2015, 69, 865-876.	2.2	25
32	An integrated multi-medial approach to cultural heritage conservation and documentation: from remotely-sensed lidar imaging to historical archive data. <i>Proceedings of SPIE</i> , 2015, , .	0.8	6
33	Test measurements on a secco white-lead containing model samples to assess the effects of exposure to low-fluence UV laser radiation. <i>Applied Surface Science</i> , 2015, 337, 45-57.	6.1	4
34	Hyperspectral remote sensing techniques applied to the noninvasive investigation of mural paintings: a feasibility study carried out on a wall painting by Beato Angelico in Florence. <i>Proceedings of SPIE</i> , 2015, , .	0.8	6
35	Accuracy in Colour Reproduction: Using a ColorChecker Chart to Assess the Usefulness and Comparability of Data Acquired with Two Hyper-Spectral Systems. <i>Lecture Notes in Computer Science</i> , 2015, , 225-235.	1.3	5
36	Non-invasive identification of traditional red lake pigments in fourteenth to sixteenth centuries paintings through the use of hyperspectral imaging technique. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 891-901.	2.3	42

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37	A multidisciplinary approach to the investigation of "La Caverna dell'Antimateria" (1958-1959) by Pinot Gallizio. <i>Heritage Science</i> , 2014, 2, .	2.3	10
38	Hyper-Spectral Acquisition on Historically Accurate Reconstructions of Red Organic Lakes. <i>Lecture Notes in Computer Science</i> , 2014, , 257-264.	1.3	8
39	Environmentally induced colour change during natural degradation of selected polymers. <i>Polymer Degradation and Stability</i> , 2014, 107, 198-209.	5.8	51
40	Comparative Study of Fourier Transform Infrared Spectroscopy in Transmission, Attenuated Total Reflection, and Total Reflection Modes for the Analysis of Plastics in the Cultural Heritage Field. <i>Applied Spectroscopy</i> , 2014, 68, 389-397.	2.2	37
41	Fibre Optic Reflectance Spectroscopy as a non-invasive tool for investigating plastics degradation in contemporary art collections: A methodological study on an expanded polystyrene artwork. <i>Journal of Cultural Heritage</i> , 2013, 14, 290-296.	3.3	23
42	The artists' materials of Fernando Melani: A precursor of the Poor Art artistic movement in Italy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 527-537.	3.9	15
43	Study of the effects of low-fluence laser irradiation on wall paintings: Test measurements on fresco model samples. <i>Applied Surface Science</i> , 2013, 284, 184-194.	6.1	3
44	Extending hyperspectral imaging from Vis to NIR spectral regions: a novel scanner for the in-depth analysis of polychrome surfaces. <i>Proceedings of SPIE</i> , 2013, , .	0.8	17
45	Trans-illumination and trans-irradiation with digital cameras: Potentials and limits of two imaging techniques used for the diagnostic investigation of paintings. <i>Journal of Cultural Heritage</i> , 2012, 13, 83-88.	3.3	12
46	Open issues in hyperspectral imaging for diagnostics on paintings: when high-spectral and spatial resolution turns into data redundancy. , 2011, , .		9
47	A new artists' materials spectroscopic archive in the THz region. , 2010, , .		0
48	An integrated spectroscopic approach for the identification of what distinguishes Afghan lapis lazuli from others. <i>Vibrational Spectroscopy</i> , 2009, 49, 80-83.	2.2	36
49	EAT-by-LIGHT: Fiber-Optic and Micro-Optic Devices for Food Quality and Safety Assessment. <i>IEEE Sensors Journal</i> , 2008, 8, 1342-1354.	4.7	36
50	Optical fiber fluorescence spectroscopy for detecting AFM1 in milk. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
51	Innovative Sensors for Environmental Monitoring in Museums. <i>Sensors</i> , 2008, 8, 1984-2005.	3.8	31
52	Eat-by-light fiber-optic and micro-optic devices for food quality and safety assessment. , 2007, , .		1
53	A portable fluorometer for the rapid screening of M1 aflatoxin. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 467-472.	7.8	47
54	A portable fluorometer for the rapid screening of M1 aflatoxin in milk. , 2006, 6189, 595.		1

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55	A study on a set of drawings by Parmigianino: integration of art-historical analysis with imaging spectroscopy. <i>Journal of Cultural Heritage</i> , 2005, 6, 329-336.	3.3	23
56	Fiber optic reflectance spectroscopy and hyper-spectral image spectroscopy: two integrated techniques for the study of the Madonna dei Fusi. , 2005, , .		19
57	Calibration and Use of Photosensitive Materials for Light Monitoring in Museums. <i>Studies in Conservation</i> , 2004, 49, 85-98.	1.1	21
58	Non-invasive spectroscopic measurements on the <i>Il ritratto della figliastra</i> by Giovanni Fattori: identification of pigments and colourimetric analysis. <i>Journal of Cultural Heritage</i> , 2003, 4, 329-336.	3.3	74
59	Disposable Indicators for Monitoring Lighting Conditions in Museums. <i>Environmental Science & Technology</i> , 2003, 37, 5687-5694.	10.0	15
60	<title>Optical fibers for safer exhibit conditions in museums: the measurement of equivalent-light dose</title>. , 2003, 5146, 170.		1
61	High-resolution lidar fluorescence spectra for the characterization of phytoplankton. , 2003, 4880, 117.		2
62	Effect of surface orientation and thickness on the magnetization of anisotropic FCC ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 231, 98-107.	2.3	3
63	A New Compact VNIR Hyperspectral Imaging System for Non-Invasive Analysis in the Fine Art and Architecture Fields. <i>Proceedings E Report</i> , 0, , 69-74.	0.0	3
64	Reflectance spectroscopy safeguards cultural assets. <i>SPIE Newsroom</i> , 0, , .	0.1	1