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 Imaging for Investigation of Works of Art: Old Master Paintings and Illuminated Manuscripts. Accounts of Chemical Research, 2016, 49, 2070-2079.	15.6	214
2	Non-invasive spectroscopic measurements on the Il ritratto della figliastra by Giovanni Fattori: identification of pigments and colourimetric analysis. Journal of Cultural Heritage, 2003, 4, 329-336.	3.3	74
3	Hyper-Spectral Imaging Technique in the Cultural Heritage Field: New Possible Scenarios. Sensors, 2020, 20, 2843.	3.8	69
4	Environmentally induced colour change during natural degradation ofÂselected polymers. Polymer Degradation and Stability, 2014, 107, 198-209.	5.8	51
5	A portable fluorometer for the rapid screening of M1 aflatoxin. Sensors and Actuators B: Chemical, 2007, 126, 467-472.	7.8	47
6	Non-invasive identification of traditional red lake pigments in fourteenth to sixteenth centuries paintings through the use of hyperspectral imaging technique. Applied Physics A: Materials Science and Processing, 2015, 121, 891-901.	2.3	42
7	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
8	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. Applied Spectroscopy, 2014, 68, 389-397.	2.2	37
9	EAT-by-LIGHT: Fiber-Optic and Micro-Optic Devices for Food Quality and Safety Assessment. IEEE Sensors Journal, 2008, 8, 1342-1354.	4.7	36
10	An integrated spectroscopic approach for the identification of what distinguishes Afghan lapis lazuli from others. Vibrational Spectroscopy, 2009, 49, 80-83.	2.2	36
11	The Colors of Keith Haring: A Spectroscopic Study on the Materials of the Mural Painting Tuttomondo and on Reference Contemporary Outdoor Paints. Applied Spectroscopy, 2016, 70, 186-196.	2.2	34
12	Innovative Sensors for Environmental Monitoring in Museums. Sensors, 2008, 8, 1984-2005.	3.8	31
13	The illuminated manuscript Corale 43 and its attribution to Beato Angelico: Non-invasive analysis by FORS, XRF and hyperspectral imaging techniques. Microchemical Journal, 2018, 138, 45-57.	4.5	29
14	Multivariate Analysis of Combined Fourier Transform Near-Infrared Spectrometry (FT-NIR) and Raman Datasets for Improved Discrimination of Drying Oils. Applied Spectroscopy, 2015, 69, 865-876.	2.2	25
15	A study onÂaÂset ofÂdrawings byÂParmigianino: integration ofÂart-historical analysis with imaging spectroscopy. Journal of Cultural Heritage, 2005, 6, 329-336.	3.3	23
16	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. Journal of Cultural Heritage, 2013, 14, 290-296.	3.3	23
17	Hyperspectral imaging for artworks investigation. Data Handling in Science and Technology, 2019, 32, 583-604.	3.1	22
18	A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. IEEE Access, 2021, 9, 123438-123447.	4.2	22

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19	Calibration and Use of Photosensitive Materials for Light Monitoring in Museums. Studies in Conservation, 2004, 49, 85-98.	1.1	21
20	Fiber optic reflectance spectroscopy and hyper-spectral image spectroscopy: two integrated techniques for the study of the Madonna dei Fusi. , 2005, , .		19
21	Extending hyperspectral imaging from Vis to NIR spectral regions: a novel scanner for the in-depth analysis of polychrome surfaces. Proceedings of SPIE, 2013, , .	0.8	17
22	Study of semi-synthetic plastic objects of historic interest using non-invasive total reflectance FT-IR. Microchemical Journal, 2016, 124, 889-897.	4.5	17
23	Discovering â€œThe Italian Flagâ€•by Fernando Melani (1907â€“1985). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 168, 52-59.	3.9	16
24	Disposable Indicators for Monitoring Lighting Conditions in Museums. Environmental Science & Technology, 2003, 37, 5687-5694.	10.0	15
25	The artistsâ€™ materials of Fernando Melani: A precursor of the Poor Art artistic movement in Italy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 527-537.	3.9	15
26	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
27	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
28	â€œEcce Homoâ€•by Antonello da Messina, from non-invasive investigations to data fusion and dissemination. Scientific Reports, 2021, 11, 15868.	3.3	15
29	Multivariate analysis of combined reflectance FT-NIR and micro-Raman spectra on oil-paint models. Microchemical Journal, 2016, 124, 703-711.	4.5	14
30	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
31	Trans-illumination and trans-irradiation with digital cameras: Potentials and limits of two imaging techniques used for the diagnostic investigation of paintings. Journal of Cultural Heritage, 2012, 13, 83-88.	3.3	12
32	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
33	A multidisciplinary approach to the investigation of â€œLa Caverna dellâ€™Antimateriaâ€•(1958â€“1959) by Pinot Gallizio. Heritage Science, 2014, 2, .	2.3	10
34	Open issues in hyperspectral imaging for diagnostics on paintings: when high-spectral and spatial resolution turns into data redundancy. , 2011, , .		9
35	Non-invasive Florentine Renaissance Panel Painting Replica Structures Investigation by Using Terahertz Time-Domain Imaging (THz-TDI) Technique. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1148-1156.	2.2	9
36	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

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37	Hyper-Spectral Acquisition on Historically Accurate Reconstructions of Red Organic Lakes. Lecture Notes in Computer Science, 2014, , 257-264.	1.3	8
38	Noninvasive Analytical and Diagnostic Technologies for Studying Early Renaissance Wall Paintings. Surveys in Geophysics, 2020, 41, 669-693.	4.6	8
39	Fra Angelicoâ€™s painting technique revealed by terahertz time-domain imaging (THz-TDI). Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
40	Insights on the Side Panels of the Franciscan Triptych by Fra Angelico Using Terahertz Time-Domain Imaging (THz-TDI). Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 413-424.	2.2	7
41	An integrated multi-medial approach to cultural heritage conservation and documentation: from remotely-sensed lidar imaging to historical archive data. Proceedings of SPIE, 2015, , .	0.8	6
42	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. Proceedings of SPIE, 2015, , .	0.8	6
43	Evaluation of the efficacy and durability of the â€œbarium hydroxide methodâ€•after 40 years. Multi-analytical survey on the Crocifissione by Beato Angelico. Journal of Cultural Heritage, 2020, 45, 362-369.	3.3	6
44	Terahertz time-domain imaging of â€œThe Last Supperâ€• , 2020, , .		6
45	Accuracy in Colour Reproduction: Using a ColorChecker Chart to Assess the Usefulness and Comparability of Data Acquired with Two Hyper-Spectral Systems. Lecture Notes in Computer Science, 2015, , 225-235.	1.3	5
46	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
47	Test measurements on a secco white-lead containing model samples to assess the effects of exposure to low-fluence UV laser radiation. Applied Surface Science, 2015, 337, 45-57.	6.1	4
48	Investigation on water content in fresco mock-ups in the microwave and near-IR spectral regions. Measurement Science and Technology, 2017, 28, 024003.	2.6	4
49	Bridging research with innovative products: a compact hyperspectral camera for investigating artworks: a feasibility study. Proceedings of SPIE, 2017, , .	0.8	4
50	Effect of surface orientation and thickness on the magnetization of anisotropic FCC ferromagnetic films. Journal of Magnetism and Magnetic Materials, 2001, 231, 98-107.	2.3	3
51	Study of the effects of low-fluence laser irradiation on wall paintings: Test measurements on fresco model samples. Applied Surface Science, 2013, 284, 184-194.	6.1	3
52	A New Compact VNIR Hyperspectral Imaging System for Non-Invasive Analysis in the FineArt and Architecture Fields. Proceedings E Report, 0, , 69-74.	0.0	3
53	High-resolution lidar fluorescence spectra for the characterization of phytoplankton. , 2003, 4880, 117.		2
54	Optical fiber fluorescence spectroscopy for detecting AFM1 in milk. Proceedings of SPIE, 2008, , .	0.8	2

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55	How Good Are RGB Cameras Retrieving Colors of Natural Scenes and Paintings?â€”A Study Based on Hyperspectral Imaging. Sensors, 2020, 20, 6242.	3.8	2
56	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
57	<title>Optical fibers for safer exhibit conditions in museums: the measurement of equivalent-light dose</title>. , 2003, 5146, 170.		1
58	A portable fluorometer for the rapid screening of M1 aflatoxin in milk. , 2006, 6189, 595.		1
59	Eat-by-light fiber-optic and micro-optic devices for food quality and safety assessment. , 2007, , .		1
60	When It Is Not Only About Color: The Importance of Hyperspectral Imaging Applied to the Investigation of Paintings. Lecture Notes in Computer Science, 2017, , 175-183.	1.3	1
61	Reflectance spectroscopy safeguards cultural assets. SPIE Newsroom, 0, , .	0.1	1
62	Documentation and analysis of some Picassoâ€™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
63	A new artists' materials spectroscopic archive in the THz region. , 2010, , .		0
64	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