Marcello Picollo

List of Publications by Year
in descending order

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112	2,470	236612	233125
papers	citations	25	45
		h-index	g-index

113	113	113	1599
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterisation of colourants on illuminated manuscripts by portable fibre optic UV-visible-NIR reflectance spectrophotometry. Analytical Methods, 2014, 6, 1488.	1.3	247
2	Reflectance Hyperspectral Imaging for Investigation of Works of Art: Old Master Paintings and Illuminated Manuscripts. Accounts of Chemical Research, 2016, 49, 2070-2079.	7.6	214
3	Terahertz spectroscopy applied to the analysis of artistsâ€™ materials. Applied Physics A: Materials Science and Processing, 2010, 100, 591-597.	1.1	110
4	Near Infrared Reflectance Imaging Spectroscopy to Map Paint Binders In Situ on Illuminated Manuscripts. Angewandte Chemie - International Edition, 2012, 51, 5607-5610.	7.2	90
5	Non-destructive spectroscopic detection of cobalt(II) in paintings and glass. Studies in Conservation, 1996, 41, 136-144.	0.6	79
6	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.	1.5	74
7	Hyper-Spectral Imaging Technique in the Cultural Heritage Field: New Possible Scenarios. Sensors, 2020, 20, 2843.	2.1	69
8	Obtaining noninvasive stratigraphic details of panel paintings using terahertz time domain spectroscopy imaging system. Journal of Cultural Heritage, 2015, 16, 73-80.	1.5	62
9	Non-Invasive Identification of White Pigments on 20Th-Century Oil Paintings by Using Fiber Optic Reflectance Spectroscopy. Journal of the American Institute for Conservation, 2007, 46, 27-37.	0.2	57
10	A study of the blue colors used by Telemaco Signorini (1835â€“1901). Journal of Cultural Heritage, 2009, 10, 275-280.	1.5	53
11	Library of UVâ€“Visâ€“NIR reflectance spectra of modern organic dyes from historic pattern-card coloured papers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1669-1680.	2.0	50
12	Image spectroscopy mapping technique for noninvasive analysis of paintings. Studies in Conservation, 1999, 44, 39-48.	0.6	49
13	Non-invasive fibre optic Fourier transform-infrared reflectance spectroscopy on painted layers. Analytica Chimica Acta, 2001, 446, 15-21.	2.6	47
14	A Spectroscopic Study of Brazilwood Paints in Medieval Books of Hours. Applied Spectroscopy, 2014, 68, 434-444.	1.2	47
15	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.	1.1	42
16	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.	2.3	40
17	Identification of the Pre-Columbian Pigment Maya Blue on Works of Art by Noninvasive UV-Vis and Raman Spectroscopic Techniques. Journal of the American Institute for Conservation, 2004, 43, 39.	0.2	39
18	Mid-Infrared Fiber-Optics Reflectance Spectroscopy: A Noninvasive Technique for Remote Analysis of Painted Layers. Part I: Technical Setup. Applied Spectroscopy, 2001, 55, 420-427.	1.2	37

#	Article	IF	Citations
19	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.	1.2	37
20	An integrated spectroscopic approach for the identification of what distinguishes Afghan lapis lazuli from others. Vibrational Spectroscopy, 2009, 49, 80-83.	1.2	36
21	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.	1.2	34
22	Non-Destructive Spectroscopic Investigations on Paintings Using Optical Fibers. Materials Research Society Symposia Proceedings, 1992, 267, 265.	0.1	31
23	The vibrational spectroscopy of indigo: A reassessment. Vibrational Spectroscopy, 2009, 50, 268-276.	1.2	31
24	Non-invasive differentiation between natural and synthetic ultramarine blue pigments by means of 250â€“900 nm FORS analysis. Analytical Methods, 2013, 5, 4184.	1.3	31
25	Non-Destructive Spectroscopic Detection of Cobalt(II) in Paintings and Glass. Studies in Conservation, 1996, 41, 136.	0.6	29
26	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.	2.3	29
27	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.	1.2	25
28	UV-Vis spectroscopy. Physical Sciences Reviews, 2019, 4, .	0.8	25
29	The ancient stained windows by NicolÃ² di Pietro Gerini in Florence. A novel diagnostic tool for non-invasive in situ diagnosis. Journal of Cultural Heritage, 2007, 8, 235-241.	1.5	24
30	Principal Component Analysis of Near-Infrared and Visible Spectra: An Application to a XIIth Century Italian Work of Art. Applied Spectroscopy, 1995, 49, 459-465.	1.2	23
31	Evaluation of the museum environmental risk by means of tempera-painted dosimeters. Thermochimica Acta, 2000, 365, 25-34.	1.2	23
32	CHARACTERIZATION OF TRADITIONAL DYES OF THE MEDITERRANEAN AREA BY NON-INVASIVE UV-VIS-NIR REFLECTANCE SPECTROSCOPY. Studies in Conservation, 2010, 55, 184-189.	0.6	23
33	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.	1.5	23
34	Chemical curing in alkyd paints: An evaluation via FT-IR and NMR spectroscopies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 520-525.	2.0	23
35	Color Analysis of the Brancacci Chapel Frescoes: Part II. Applied Spectroscopy, 1993, 47, 399-402.	1.2	22
36	Mid-Infrared Fiber-Optics Reflectance Spectroscopy: A Noninvasive Technique for Remote Analysis of Painted Layers. Part II: Statistical Analysis of Spectra. Applied Spectroscopy, 2001, 55, 428-433.	1.2	21

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37	Fiber optic reflectance spectroscopy and hyper-spectral image spectroscopy: two integrated techniques for the study of the Madonna dei Fusi. , 2005, , .		19
38	Tempera-Painted Dosimeters for Environmental Indoor Monitoring:Â A Spectroscopic and Chemometric Approach. Environmental Science & Technology, 2000, 34, 2859-2865.	4.6	17
39	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
40	Study of semi-synthetic plastic objects of historic interest using non-invasive total reflectance FT-IR. Microchemical Journal, 2016, 124, 889-897.	2.3	17
41	Assessment of multispectral and hyperspectral imaging systems for digitisation of a Russian icon. Heritage Science, 2017, 5, .	1.0	17
42	Discovering â€œThe Italian Flagâ€•by Fernando Melani (1907â€“1985). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 168, 52-59.	2.0	16
43	Disposable Indicators for Monitoring Lighting Conditions in Museums. Environmental Science & Technology, 2003, 37, 5687-5694.	4.6	15
44	Characterisation of Works of Art. Springer Series in Optical Sciences, 2012, , 521-538.	0.5	15
45	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.	2.0	15
46	Short-wave infrared reflectance hyperspectral imaging for painting investigations: A methodological study. Journal of the American Institute for Conservation, 2019, 58, 16-36.	0.2	15
47	Macro X-ray fluorescence and VNIR hyperspectral imaging in the investigation of two panels by Marco d'Oggiono. Microchemical Journal, 2020, 154, 104541.	2.3	15
48	Picassoâ€™s 1917 paint materials and their influence on the condition of four paintings. SN Applied Sciences, 2020, 2, 1.	1.5	15
49	â€œEcce Homoâ€•by Antonello da Messina, from non-invasive investigations to data fusion and dissemination. Scientific Reports, 2021, 11, 15868.	1.6	15
50	Experimental study on merits of virtual cleaning of paintings with aged varnish. Optics Express, 2015, 23, 33836.	1.7	14
51	Multivariate analysis of combined reflectance FT-NIR and micro-Raman spectra on oil-paint models. Microchemical Journal, 2016, 124, 703-711.	2.3	14
52	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.	1.5	14
53	Application of Infrared Reflectance Spectroscopy on Plastics in Cultural Heritage Collections: A Comparative Assessment of Two Portable Mid-Fourier Transform Infrared Reflection Devices. Applied Spectroscopy, 2021, 75, 000370282199877.	1.2	14
54	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.	1.5	12

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55	Fiber Optics Reflectance Spectroscopy: A Non-destructive Technique for the Analysis of Works of Art. , 2002, , 259-265.		11
56	Identification of the Pre-Columbian Pigment Mayablue on Works of Art by Noninvasive UV-Vis and Raman Spectroscopic Techniques. Journal of the American Institute for Conservation, 2004, 43, 39-54.	0.2	11
57	Terahertz imaging systems: a non-invasive technique for the analysis of paintings. Proceedings of SPIE, 2009, , .	0.8	11
58	Vis-NIR Hyperspectral and Terahertz Imaging Investigations on a Fresco Painting on â€œTavellaâ€•by Alessandro Gherardini. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 390-402.	1.2	11
59	The identification of synthetic organic red pigments in historical plastics: Developing an in situ analytical protocol based on Raman microscopy. Journal of Raman Spectroscopy, 2021, 52, 145-158.	1.2	11
60	Integrated non-invasive technologies for the diagnosis and conservation of the cultural heritage. Journal of Neutron Research, 2006, 14, 11-16.	0.4	10
61	A multidisciplinary approach to the investigation of â€œLa Caverna dellâ€™Antimateriaâ€•(1958â€“1959) by Pinot Gallizio. Heritage Science, 2014, 2, .	1.0	10
62	Use of mid-infrared fiber-optic reflectance spectroscopy (FORS) to evaluate efficacy of nanostructured systems in wall painting conservation. Applied Physics A: Materials Science and Processing, 2006, 83, 669-673.	1.1	9
63	Open issues in hyperspectral imaging for diagnostics on paintings: when high-spectral and spatial resolution turns into data redundancy. , 2011, , .		9
64	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.	1.2	9
65	Contemporary artists' spinel pigments: Non-invasive characterization by means of electronic spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 510-515.	2.0	9
66	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.	1.3	9
67	Detection of Alteration Products in Artworks by Non-Destructive Spectroscopic Analysis. Materials Research Society Symposia Proceedings, 1995, 352, 153.	0.1	8
68	Hyper-Spectral Acquisition on Historically Accurate Reconstructions of Red Organic Lakes. Lecture Notes in Computer Science, 2014, , 257-264.	1.0	8
69	Noninvasive Analytical and Diagnostic Technologies for Studying Early Renaissance Wall Paintings. Surveys in Geophysics, 2020, 41, 669-693.	2.1	8
70	Fiber Optics Reflectance Spectroscopy in the Entire VIS-IR Range: a Powerful Tool for the Non-invasive Characterization of Paintings. Materials Research Society Symposia Proceedings, 2004, 852, 1.	0.1	7
71	A millimeter wave/terahertz 3D scanner for wall painting investigation. , 2014, , .		7
72	Fra Angelicoâ€™s painting technique revealed by terahertz time-domain imaging (THz-TDI). Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7

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73	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.	1.2	7
74	The multi-analytical in situ analysis of cadmium-based pigments in plastics. Microchemical Journal, 2020, 157, 105004.	2.3	7
75	A fast non-invasive method for preliminary authentication of mediaeval glass enamels using UVâ€“visibleâ€“NIR diffuse reflectance spectrophotometry. Journal of Cultural Heritage, 2020, 45, 33-40.	1.5	7
76	Colour and Space in Cultural Heritage: Interdisciplinary Approaches to Documentation of Material Culture. International Journal of Heritage in the Digital Era, 2014, 3, 713-730.	0.5	6
77	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
78	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
79	Keith Haring in Pisa and Melbourne: Controversy and conservation. Studies in Conservation, 2016, 61, 29-37.	0.6	6
80	JAIC special issue on â€œReflectance hyperspectral imaging to support documentation and conservation of 2D artworksâ€• Journal of the American Institute for Conservation, 2019, 58, 1-2.	0.2	6
81	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.	1.5	6
82	Terahertz time domain imaging for cultural heritage. Insight: Non-Destructive Testing and Condition Monitoring, 2014, 56, 142-146.	0.3	5
83	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.	1.0	5
84	An in situ non-invasive study of two Tibetan manuscripts from the Asian Collection of the Museum of Natural History in Florence. Archaeological and Anthropological Sciences, 2018, 10, 1881-1901.	0.7	5
85	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.	3.1	4
86	Investigation on water content in fresco mock-ups in the microwave and near-IR spectral regions. Measurement Science and Technology, 2017, 28, 024003.	1.4	4
87	Terahertz Waves and Cultural Heritage: State-of-the-Art and Perspectives. Geotechnologies and the Environment, 2017, , 313-323.	0.3	4
88	Bridging research with innovative products: a compact hyperspectral camera for investigating artworks: a feasibility study. Proceedings of SPIE, 2017, , .	0.8	4
89	The ageing of model pigment/linseed oil systems studied by means of vibrational spectroscopies and chemometrics. Vibrational Spectroscopy, 2018, 99, 86-92.	1.2	4
90	Examination of pigments by using FT-THz. , 2010, , .		3

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91	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.	3.1	3
92	Preâ€hispanic pigments and Italian renaissance designs at Spanish colonial missions churches in Northern Mexico. Color Research and Application, 2016, 41, 289-293.	0.8	3
93	Guest Editorial: Special Issue on THz Radiation Applied to Cultural Heritage. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 367-368.	1.2	3
94	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
95	Terahertz spectroscopy and imaging for material analysis in conservation science. , 2010, , .		2
96	Application of THz sensing to analysis of works of art for conservation. , 2010, , .		2
97	Terahertz and millimetre wave imaging for wall painting investigation. , 2014, , .		2
98	A new 3D THz scanner for the THz-ARTE project. , 2016, , .		2
99	Evaluation of the Data Quality from a Round-Robin Test of Hyperspectral Imaging Systems. Sensors, 2020, 20, 3812.	2.1	2
100	How Good Are RGB Cameras Retrieving Colors of Natural Scenes and Paintings?â€”A Study Based on Hyperspectral Imaging. Sensors, 2020, 20, 6242.	2.1	2
101	Non-invasive techniques applied to the alchemical codex of the State Archive of Florence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118562.	2.0	2
102	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
103	THz techniques as a complementary non-invasive diagnostic method for the study of medieval panel paintings. , 2013, , .		1
104	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.	1.0	1
105	A STUDY OF SPECTRAL IMAGING ACQUISITION AND PROCESSING FOR CULTURAL HERITAGE. , 2018, , 141-158.		1
106	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.	0.3	1
107	A new artists' materials spectroscopic archive in the THz region. , 2010, , .		0
108	Terahertz and millimetre wave imaging for wall painting investigation. , 2014, , .		0

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109	Multi-technical approach for the characterization of polychrome decorative surfaces at Spanish Mission Churches in Nueva Vizcaya (Chihuahua, Mexico). Science and Technology of Archaeological Research, 2019, 5, 287-304.	2.4	0
110	5. UV-Vis spectroscopy. , 2020, , 99-120.		0
111	Case Studies Regarding the Application of THz Imaging to Cultural Heritages. Geotechnologies and the Environment, 2017, , 515-521.	0.3	0
112	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