List of Publications by Year in descending order

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SILVIA DDATI

#	Article	IF	CITATIONS
1	An effective strategy for the monitoring of microplastics in complex aquatic matrices: Exploiting the potential of near infrared hyperspectral imaging (NIR-HSI). Chemosphere, 2022, 286, 131861.	4.2	7
2	Development of a multi-method analytical approach based on the combination of synchrotron radiation X-ray micro-analytical techniques and vibrational micro-spectroscopy methods to unveil the causes and mechanism of darkening of "fake-gilded―decorations in a Cimabue painting. Journal of Analytical Atomic Spectrometry, 2022, 37, 114-129.	1.6	10
3	Quantifying spatial variation in the uptake of microplastic by mussels using biodeposit traps: A field-based study. Marine Pollution Bulletin, 2022, 174, 113305.	2.3	1
4	Combining elemental and immunochemical analyses to characterize diagenetic alteration patterns in ancient skeletal remains. Scientific Reports, 2022, 12, 5112.	1.6	5
5	Notice of Removal: A Movie Should Be Forever: Monitoring the Degradation Pathway of Photographic Films. , 2022, , .		0
6	Analytical studies on commercial artists' colour charts from Das Deutsche Farbenbuch (1925)—identification of synthetic and natural organic colourants by Raman microscopy, surface-enhanced Raman spectroscopy and metal underlayer ATR-FTIR spectroscopy. Heritage Science, 2022, 10, .	1.0	4
7	Near-infrared hyperspectral imaging (NIR-HSI) and normalized difference image (NDI) data processing: An advanced method to map collagen in archaeological bones. Talanta, 2021, 226, 122126.	2.9	11
8	Deep eutectic solvent and agar: a new green gel to remove proteinaceous-based varnishes from paintings. Journal of Cultural Heritage, 2021, 51, 138-144.	1.5	12
9	Macroscopic mid-FTIR mapping and clustering-based automated data-reduction: An advanced diagnostic tool for in situ investigations of artworks. Talanta, 2020, 209, 120575.	2.9	7
10	Rapid and direct detection of small microplastics in aquatic samples by a new near infrared hyperspectral imaging (NIR-HSI) method. Chemosphere, 2020, 260, 127655.	4.2	30
11	Organogel Coupled with Microstructured Electrospun Polymeric Nonwovens for the Effective Cleaning of Sensitive Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 39620-39629.	4.0	18
12	Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS. Talanta, 2020, 218, 121078.	2.9	9
13	Do different habits affect microplastics contents in organisms? A trait-based analysis on salt marsh species. Marine Pollution Bulletin, 2020, 153, 110983.	2.3	43
14	A new miniaturised short-wave infrared (SWIR) spectrometer for on-site cultural heritage investigations. Talanta, 2020, 218, 121112.	2.9	13
15	A new bio-based organogel for the removal of wax coating from indoor bronze surfaces. Heritage Science, 2019, 7, .	1.0	13
16	Thin-layer chromatography/metal underlayer-ATR FTIR methodology for the study of synthetic dyes extracted from degraded wool fibres. New Journal of Chemistry, 2019, 43, 9411-9419.	1.4	7
17	Cleaning oil paintings: NMR relaxometry and SPME to evaluate the effects of green solvents and innovative green gels. New Journal of Chemistry, 2019, 43, 8229-8238.	1.4	28
18	Microplastic in wild populations of the omnivorous crab Carcinus aestuarii: A review and a regional-scale test of extraction methods, including microfibres. Environmental Pollution, 2019, 251, 117-127.	3.7	63

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19	MID-FTIR macro mapping and clustering-based automatic brushing: an advanced diagnostic tool for in situ investigations of artworks. , 2019, , .		1
20	Advanced analytical investigation on degradation markers in wall paintings. Microchemical Journal, 2018, 139, 278-294.	2.3	34
21	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie - International Edition, 2018, 57, 7385-7389.	7.2	22
22	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie, 2018, 130, 7507-7511.	1.6	11
23	Ancient encaustic: An experimental exploration of technology, ageing behaviour and approaches to analytical investigation. Microchemical Journal, 2018, 138, 472-487.	2.3	23
24	Sustainability in art conservation: a novel bio-based organogel for the cleaning of water sensitive works of art. Pure and Applied Chemistry, 2018, 90, 239-251.	0.9	37
25	From macro to micro: An advanced macro X-ray fluorescence (MA-XRF) imaging approach for the study of painted surfaces. Microchemical Journal, 2018, 137, 277-284.	2.3	12
26	A new analytical approach to characterize the effect of γ-ray sterilization on wood. Microchemical Journal, 2018, 143, 493-502.	2.3	6
27	1H NMR depth profiles combined with portable and micro-analytical techniques for evaluating cleaning methods and identifying original, non-original, and degraded materials of a 16th century Italian wall painting. Microchemical Journal, 2018, 141, 40-50.	2.3	9
28	Characterization of outdoor bronze monument patinas: the potentialities of near-infrared spectroscopic analysis. Environmental Science and Pollution Research, 2018, 25, 24379-24393.	2.7	22
29	A new integrated TLC/MU-ATR/SERS advanced approach for the identification of trace amounts of dyes in mixtures. Analytica Chimica Acta, 2017, 991, 104-112.	2.6	17
30	Sensitive â€~on the fiber' detection of synthetic organic dyes by laser photoinduced plasmonic Ag nanoparticles. Journal of Raman Spectroscopy, 2017, 48, 925-934.	1.2	13
31	A follow-up on the analytical study of discolouration of the marble statues of Orsanmichele in Florence. Environmental Science and Pollution Research, 2017, 24, 334-352.	2.7	3
32	A Multivariate Methodological Workflow for the Analysis of FTIR Chemical Mapping Applied on Historic Paint Stratigraphies. International Journal of Analytical Chemistry, 2017, 2017, 1-12.	0.4	10
33	Identification of dyes in toned and tinted XX century cinematographic films by surface enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 337-344.	1.2	7
34	The potential of spectral and hyperspectral-imaging techniques for bacterial detection in food: A case study on lactic acid bacteria. Talanta, 2016, 153, 111-119.	2.9	37
35	New Frontiers in Application of FTIR Microscopy for Characterization of Cultural Heritage Materials. Topics in Current Chemistry, 2016, 374, 26.	3.0	28
36	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. Topics in Current Chemistry, 2016, 374, 32.	3.0	2

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37	Analyses of trace amounts of dyes with a new enhanced sensitivity FTIR spectroscopic technique: MU-ATR (metal underlayer ATR spectroscopy). Analytica Chimica Acta, 2016, 941, 67-79.	2.6	15
38	The Green Attitude in Art Conservation: Polyhydroxybutyrate–based Gels for the Cleaning of Oil Paintings. ChemistrySelect, 2016, 1, 4502-4508.	0.7	31
39	Colorimetric analysis of painting materials using polymer-supported polydiacetylene films. New Journal of Chemistry, 2016, 40, 9054-9059.	1.4	15
40	ATR-FTIR microscopy in mapping mode for the study of verdigris and its secondary products. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	17
41	A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging. Microchemical Journal, 2016, 124, 247-255.	2.3	9
42	The golden age of the Neapolitan lutherie (1750–1800): new insights on the varnishes and decorations of ten historic mandolins. Applied Physics A: Materials Science and Processing, 2015, 118, 7-16.	1.1	6
43	Use of nano gold obtained by laser ablation for SEIRA analyses of colorants. Heritage Science, 2014, 2, .	1.0	13
44	Localization of proteins in paint cross-sections by scanning electrochemical microscopy as an alternative immunochemical detection technique. Analytica Chimica Acta, 2014, 831, 31-37.	2.6	19
45	Crystallization of CaCO ₃ in the Presence of Ethanolamine Reveals Transient Meso-like Crystals. Crystal Growth and Design, 2014, 14, 5922-5928.	1.4	3
46	Chinese archaeological artefacts: Microstructure and corrosion behaviour of high-leaded bronzes. Journal of Cultural Heritage, 2014, 15, 283-291.	1.5	38
47	The use of laser pyrolysis–GC–MS for the analysis of paint cross sections. Journal of Analytical and Applied Pyrolysis, 2014, 105, 327-334.	2.6	12
48	FT-NIR microscopy: An advanced spectroscopic approach for the characterisation of paint cross-sections. Microchemical Journal, 2014, 112, 87-96.	2.3	24
49	Development of innovative embedding procedures for the analyses of paint cross sections in ATR FITR microscopy. Analytical and Bioanalytical Chemistry, 2013, 405, 895-905.	1.9	27
50	Single and multiplexed immunoassays for the chemiluminescent imaging detection of animal glues in historical paint cross-sections. Analytical and Bioanalytical Chemistry, 2013, 405, 933-940.	1.9	29
51	A scientific approach to the characterization of the painting materials of Fra Mattia della Robbia polychrome terracotta altarpiece. Applied Physics A: Materials Science and Processing, 2013, 113, 1055-1064.	1.1	4
52	Analysis of paint cross-sections: a combined multivariate approach for the interpretation of μATR-FTIR hyperspectral data arrays. Analytical and Bioanalytical Chemistry, 2013, 405, 625-633.	1.9	27
53	Alternative SERRS probes for the immunochemical localization of ovalbumin in paintings: an advanced mapping detection approach. Analyst, The, 2013, 138, 4532.	1.7	23
54	Evaluation of the effect of different paint cross section preparation methods on the performances of Fourier transformed infrared microscopy in total reflection mode. Microchemical Journal, 2013, 110, 314-319.	2.3	17

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55	Py-SPME-GC-MS with on-fiber derivatization as a new solvent-less technique for the study of polar macromolecules: Application to natural gums. Microchemical Journal, 2013, 110, 719-725.	2.3	16
56	An advanced multivariate approach for processing X-ray fluorescence spectral and hyperspectral data from non-invasive in situ analyses on painted surfaces. Analytica Chimica Acta, 2012, 752, 30-38.	2.6	34
57	Pigment identification in a Greek icon by optical microscopy and infrared microspectroscopy. Journal of Cultural Heritage, 2012, 13, 107-113.	1.5	22
58	Evaluation of the effect of six different paint cross section preparation methods on the performances of Fourier Transformed Infrared microscopy in attenuated total reflection mode. Microchemical Journal, 2012, 103, 79-89.	2.3	26
59	Effects of Imidazolium Ionic Liquids on Growth, Photosynthetic Efficiency, and Cellular Components of the Diatoms <i>Skeletonema marinoi</i> and <i>Phaeodactylum tricornutum</i> . Chemical Research in Toxicology, 2011, 24, 392-401.	1.7	40
60	Behaviour of phospholipids in analytical reactive pyrolysis. Journal of Thermal Analysis and Calorimetry, 2011, 104, 415-421.	2.0	3
61	Development of a multiplexed chemiluminescent immunochemical imaging technique for the simultaneous localization of different proteins in painting micro cross-sections. Analytical and Bioanalytical Chemistry, 2011, 399, 2889-2897.	1.9	36
62	Development of an analytical procedure for evaluation of the protective behaviour of innovative fungal patinas on archaeological and artistic metal artefacts. Analytical and Bioanalytical Chemistry, 2011, 399, 2899-2907.	1.9	22
63	Application of ATR-far-infrared spectroscopy to the analysis of natural resins. Analytical and Bioanalytical Chemistry, 2011, 399, 3081-3091.	1.9	38
64	Analytical chemistry for cultural heritage: a key discipline in conservation research. Analytical and Bioanalytical Chemistry, 2011, 399, 2885-2887.	1.9	10
65	Performance evaluation of mapping and linear imaging FTIR microspectroscopy for the characterisation of paint cross sections. Analytical and Bioanalytical Chemistry, 2010, 396, 899-910.	1.9	53
66	Macro-ATR-FT-IR spectroscopic imaging analysis of paint cross-sections. Vibrational Spectroscopy, 2010, 53, 274-278.	1.2	51
67	New Advances in the Application of FTIR Microscopy and Spectroscopy for the Characterization of Artistic Materials. Accounts of Chemical Research, 2010, 43, 792-801.	7.6	130
68	Vaterite in the mortars of a mosaic in the Saint Peter basilica, Vatican (Rome). Journal of Cultural Heritage, 2009, 10, 248-257.	1.5	36
69	ATR and transmission analysis of pigments by means of far infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 394, 1023-1032.	1.9	25
70	Ultrasensitive chemiluminescent immunochemical identification and localization of protein components in painting cross-sections by microscope low-light imaging. Analytical and Bioanalytical Chemistry, 2008, 392, 29-35.	1.9	40
71	Attenuated total reflection micro FTIR characterisation of pigment–binder interaction in reconstructed paint films. Analytical and Bioanalytical Chemistry, 2008, 392, 65-76.	1.9	152
72	Far infrared and Raman spectroscopy analysis of inorganic pigments. Journal of Raman Spectroscopy, 2008, 39, 1104-1112.	1.2	43

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CITATIONS

73	ULTRASENSITIVE CHEMILUMINESCENT IMMUNOCHEMICAL LOCALISATION OF PROTEIN COMPONENTS IN PAINTING CROSS-SECTIONS. , 2008, , .		0
74	Composition and content of seed flavonoids in forage and grain legume crops. Journal of Separation Science, 2007, 30, 491-501.	1.3	35
75	Attenuated Total Reflection–Fourier transform infrared microspectroscopic mapping for the characterisation of paint cross-sections. Analytica Chimica Acta, 2007, 599, 107-117.	2.6	76
76	The influence of nanopowder metal oxides on the methylating activity of dimethyl carbonate in analytical pyrolysis. Journal of Analytical and Applied Pyrolysis, 2007, 79, 2-8.	2.6	6
77	Application of analytical pyrolysis for the characterisation of old inks. Journal of Analytical and Applied Pyrolysis, 2007, 80, 400-405.	2.6	23
78	Diagnostic study of the materials and painting techniques in "The Dinner of Emmaus―by Gregorio (and) Tj	ETQq0 0 0) rg&T /Overl
79	Use ofÂpyrolysis-gas chromatography/mass spectrometry toÂcharacterise binding media andÂprotectives from aÂCoronelli's terrestrial globe. Journal of Cultural Heritage, 2006, 7, 67-70.	1.5	13
80	Effect of pigments on the analysis of fatty acids in siccative oils by pyrolysis methylation and silylation. Journal of Analytical and Applied Pyrolysis, 2005, 74, 39-44.	2.6	35
81	Dimethyl carbonate as a novel methylating reagent for fatty acids in analytical pyrolysis. Journal of Chromatography A, 2005, 1065, 257-264.	1.8	22
82	Profiling fatty acids in vegetable oils by reactive pyrolysis–gas chromatography with dimethyl carbonate and titanium silicate. Journal of Chromatography A, 2005, 1100, 218-222.	1.8	30
83	Identification of Indigo Dyes in Painting Layers by Pyrolysis Methylation and Silylation. A Case Study: ?The Dinner of Emmaus? by G. Preti. Chromatographia, 2005, 61, 403-408.	0.7	26
84	Analytical study of traditional decorative materials and techniques used in Ming Dynasty wooden architecture. The case of the Drum Tower in Xi'an, P.R. of China. Journal of Cultural Heritage, 2004, 5, 273-283.	1.5	43
85	Analysis of proteinaceous binders by in-situ pyrolysis and silylation. Chromatographia, 2003, 57, 645-648.	0.7	30
86	Off-line pyrolysis/silylation of cellulose and chitin. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 163-171.	2.6	31
87	Molecular characterisation of organic material in air fine particles (PM10) using conventional and reactive pyrolysis-gas chromatography-mass spectrometry. Journal of Environmental Monitoring, 2002, 4, 210-215.	2.1	19
88	Py-GC-MS of the synthetic polymers used in past restorations on Giotto's mural paintings at the Scrovegni Chapel (Padova). Chromatographia, 2002, 56, 763-767.	0.7	15
89	Characterisation of natural resins by pyrolysis—Silylation. Chromatographia, 2002, 55, 611-616.	0.7	54
90	Gas chromatography/mass spectrometric characterisation of pyrolysis/silylation products of glucose and cellulose. Rapid Communications in Mass Spectrometry, 2002, 16, 2349-2355.	0.7	78

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91	In-situ pyrolysis and silylation for analysis of lipid materials used in paint layers. Chromatographia, 2001, 53, 311-314.	0.7	58
92	Gas chromatographic–mass spectrometric analysis of products arising from pyrolysis of amino acids in the presence of hexamethyldisilazane. Journal of Chromatography A, 2001, 922, 235-241.	1.8	60
93	DSC Application in the Conservation Field. Magyar Apróvad Közlemények, 2001, 66, 315-327.	1.4	13