Giorgia Sciutto

List of Publications by Year
in descending order

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59 papers	1,274 citations	279798 23 h-index	395702 33 g-index
59 all docs	59 docs citations	59 times ranked	1472 citing authors

#	Article	IF	Citations
1	New Advances in the Application of FTIR Microscopy and Spectroscopy for the Characterization of Artistic Materials. Accounts of Chemical Research, 2010, 43, 792-801.	15.6	130
2	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.	7.5	63
3	Performance evaluation of mapping and linear imaging FTIR microspectroscopy for the characterisation of paint cross sections. Analytical and Bioanalytical Chemistry, 2010, 396, 899-910.	3.7	53
4	Do different habits affect microplastics contents in organisms? A trait-based analysis on salt marsh species. Marine Pollution Bulletin, 2020, 153, 110983.	5.0	43
5	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.	3.7	40
6	Effects of Imidazolium Ionic Liquids on Growth, Photosynthetic Efficiency, and Cellular Components of the Diatoms Skeletonema marinoi and Phaeodactylum tricornutum. Chemical Research in Toxicology, 2011, 24, 392-401.	3.3	40
7	Application of ATR-far-infrared spectroscopy to the analysis of natural resins. Analytical and Bioanalytical Chemistry, 2011, 399, 3081-3091.	3.7	38
8	Chinese archaeological artefacts: Microstructure and corrosion behaviour of high-leaded bronzes. Journal of Cultural Heritage, 2014, 15, 283-291.	3.3	38
9	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.	5.5	37
10	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.	1.9	37
11	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.	3.7	36
12	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.	5.4	34
13	Advanced analytical investigation on degradation markers in wall paintings. Microchemical Journal, 2018, 139, 278-294.	4.5	34
14	The Green Attitude in Art Conservation: Polyhydroxybutyrateâ€“based Gels for the Cleaning of Oil Paintings. ChemistrySelect, 2016, 1, 4502-4508.	1.5	31
15	Rapid and direct detection of small microplastics in aquatic samples by a new near infrared hyperspectral imaging (NIR-HSI) method. Chemosphere, 2020, 260, 127655.	8.2	30
16	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.	3.7	29
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.	2.8	28
18	Development of innovative embedding procedures for the analyses of paint cross sections in ATR FITR microscopy. Analytical and Bioanalytical Chemistry, 2013, 405, 895-905.	3.7	27

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19	Analysis of paint cross-sections: a combined multivariate approach for the interpretation of Î¼ATR-FTIR hyperspectral data arrays. Analytical and Bioanalytical Chemistry, 2013, 405, 625-633.	3.7	27
20	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.	4.5	26
21	ATR and transmission analysis of pigments by means of far infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 394, 1023-1032.	3.7	25
22	FT-NIR microscopy: An advanced spectroscopic approach for the characterisation of paint cross-sections. Microchemical Journal, 2014, 112, 87-96.	4.5	24
23	Alternative SERRS probes for the immunochemical localization of ovalbumin in paintings: an advanced mapping detection approach. Analyst, The, 2013, 138, 4532.	3.5	23
24	Ancient encaustic: An experimental exploration of technology, ageing behaviour and approaches to analytical investigation. Microchemical Journal, 2018, 138, 472-487.	4.5	23
25	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie - International Edition, 2018, 57, 7385-7389.	13.8	22
26	Characterization of outdoor bronze monument patinas: the potentialities of near-infrared spectroscopic analysis. Environmental Science and Pollution Research, 2018, 25, 24379-24393.	5.3	22
27	Localization of proteins in paint cross-sections by scanning electrochemical microscopy as an alternative immunochemical detection technique. Analytica Chimica Acta, 2014, 831, 31-37.	5.4	19
28	Biologically Derived Gels for the Cleaning of Historical and Artistic Metal Heritage. Applied Sciences (Switzerland), 2021, 11, 3405.	2.5	19
29	Organogel Coupled with Microstructured Electrospun Polymeric Nonwovens for the Effective Cleaning of Sensitive Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 39620-39629.	8.0	18
30	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.	4.5	17
31	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.	5.4	17
32	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.	5.4	15
33	A round robin exercise in archaeometry: analysis of a blind sample reproducing a seventeenth century pharmaceutical ointment. Analytical and Bioanalytical Chemistry, 2011, 401, 1847-1860.	3.7	13
34	Use of nano gold obtained by laser ablation for SEIRA analyses of colorants. Heritage Science, 2014, 2, .	2.3	13
35	A new bio-based organogel for the removal of wax coating from indoor bronze surfaces. Heritage Science, 2019, 7, .	2.3	13
36	A new miniaturised short-wave infrared (SWIR) spectrometer for on-site cultural heritage investigations. Talanta, 2020, 218, 121112.	5.5	13

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37	The use of laser pyrolysisâ€“GCâ€“MS for the analysis of paint cross sections. Journal of Analytical and Applied Pyrolysis, 2014, 105, 327-334.	5.5	12
38	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.	4.5	12
39	Deep eutectic solvent and agar: a new green gel to remove proteinaceous-based varnishes from paintings. Journal of Cultural Heritage, 2021, 51, 138-144.	3.3	12
40	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie, 2018, 130, 7507-7511.	2.0	11
41	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.	5.5	11
42	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.	1.0	10
43	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 â€œfake-gildedâ€•decorations in a Cimabue painting. Journal of Analytical Atomic Spectrometry, 2022, 37, 114-129.	3.0	10
44	A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging. Microchemical Journal, 2016, 124, 247-255.	4.5	9
45	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.	4.5	9
46	Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS. Talanta, 2020, 218, 121078.	5.5	9
47	Identification of dyes in toned and tinted XX century cinematographic films by surface enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 337-344.	2.5	7
48	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.	2.8	7
49	Macroscopic mid-FTIR mapping and clustering-based automated data-reduction: An advanced diagnostic tool for in situ investigations of artworks. Talanta, 2020, 209, 120575.	5.5	7
50	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.	8.2	7
51	A new analytical approach to characterize the effect of Î³-ray sterilization on wood. Microchemical Journal, 2018, 143, 493-502.	4.5	6
52	Combining elemental and immunochemical analyses to characterize diagenetic alteration patterns in ancient skeletal remains. Scientific Reports, 2022, 12, 5112.	3.3	5
53	Analytical studies on commercial artistsâ€™ colour charts from Das Deutsche Farbenbuch (1925)â€”identification of synthetic and natural organic colourants by Raman microscopy, surface-enhanced Raman spectroscopy and metal underlayer ATR-FTIR spectroscopy. Heritage Science, 2022, 10, .	2.3	4
54	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.	5.3	3

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55	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. Topics in Current Chemistry, 2016, 374, 32.	5.8	2
56	Development and evaluation of a simple Raman spectral searching algorithm. European Physical Journal Plus, 2021, 136, 1.	2.6	2
57	MID-FTIR macro mapping and clustering-based automatic brushing: an advanced diagnostic tool for in situ investigations of artworks. , 2019, , .		1
58	Quantifying spatial variation in the uptake of microplastic by mussels using biodeposit traps: A field-based study. Marine Pollution Bulletin, 2022, 174, 113305.	5.0	1
59	Notice of Removal: A Movie Should Be Forever: Monitoring the Degradation Pathway of Photographic Films. , 2022, , .		0