

Giorgia Sciutto

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,274
citations

279798

23
h-index

395702

33
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59
all docs

59
docs citations

59
times ranked

1472
citing authors

#	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). <i>Chemosphere</i> , 2022, 286, 131861.	8.2	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 114-129.	3.0	10
3	Quantifying spatial variation in the uptake of microplastic by mussels using biodeposit traps: A field-based study. <i>Marine Pollution Bulletin</i> , 2022, 174, 113305.	5.0	1
4	Combining elemental and immunochemical analyses to characterize diagenetic alteration patterns in ancient skeletal remains. <i>Scientific Reports</i> , 2022, 12, 5112.	3.3	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. <i>Heritage Science</i> , 2022, 10, .	2.3	4
7	Biologically Derived Gels for the Cleaning of Historical and Artistic Metal Heritage. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3405.	2.5	19
8	Near-infrared hyperspectral imaging (NIR-HSI) and normalized difference image (NDI) data processing: An advanced method to map collagen in archaeological bones. <i>Talanta</i> , 2021, 226, 122126.	5.5	11
9	Development and evaluation of a simple Raman spectral searching algorithm. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	2
10	Deep eutectic solvent and agar: a new green gel to remove proteinaceous-based varnishes from paintings. <i>Journal of Cultural Heritage</i> , 2021, 51, 138-144.	3.3	12
11	Macroscopic mid-FTIR mapping and clustering-based automated data-reduction: An advanced diagnostic tool for in situ investigations of artworks. <i>Talanta</i> , 2020, 209, 120575.	5.5	7
12	Rapid and direct detection of small microplastics in aquatic samples by a new near infrared hyperspectral imaging (NIR-HSI) method. <i>Chemosphere</i> , 2020, 260, 127655.	8.2	30
13	Organogel Coupled with Microstructured Electrospun Polymeric Nonwovens for the Effective Cleaning of Sensitive Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39620-39629.	8.0	18
14	Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS. <i>Talanta</i> , 2020, 218, 121078.	5.5	9
15	Do different habits affect microplastics contents in organisms? A trait-based analysis on salt marsh species. <i>Marine Pollution Bulletin</i> , 2020, 153, 110983.	5.0	43
16	A new miniaturised short-wave infrared (SWIR) spectrometer for on-site cultural heritage investigations. <i>Talanta</i> , 2020, 218, 121112.	5.5	13
17	A new bio-based organogel for the removal of wax coating from indoor bronze surfaces. <i>Heritage Science</i> , 2019, 7, .	2.3	13
18	Thin-layer chromatography/metal underlayer-ATR FTIR methodology for the study of synthetic dyes extracted from degraded wool fibres. <i>New Journal of Chemistry</i> , 2019, 43, 9411-9419.	2.8	7

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19	Cleaning oil paintings: NMR relaxometry and SPME to evaluate the effects of green solvents and innovative green gels. <i>New Journal of Chemistry</i> , 2019, 43, 8229-8238.	2.8	28
20	Microplastic in wild populations of the omnivorous crab <i>Carcinus aestuarii</i> : A review and a regional-scale test of extraction methods, including microfibrils. <i>Environmental Pollution</i> , 2019, 251, 117-127.	7.5	63
21	MID-FTIR macro mapping and clustering-based automatic brushing: an advanced diagnostic tool for in situ investigations of artworks. , 2019, , .		1
22	Advanced analytical investigation on degradation markers in wall paintings. <i>Microchemical Journal</i> , 2018, 139, 278-294.	4.5	34
23	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7385-7389.	13.8	22
24	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. <i>Angewandte Chemie</i> , 2018, 130, 7507-7511.	2.0	11
25	Ancient encaustic: An experimental exploration of technology, ageing behaviour and approaches to analytical investigation. <i>Microchemical Journal</i> , 2018, 138, 472-487.	4.5	23
26	Sustainability in art conservation: a novel bio-based organogel for the cleaning of water sensitive works of art. <i>Pure and Applied Chemistry</i> , 2018, 90, 239-251.	1.9	37
27	From macro to micro: An advanced macro X-ray fluorescence (MA-XRF) imaging approach for the study of painted surfaces. <i>Microchemical Journal</i> , 2018, 137, 277-284.	4.5	12
28	A new analytical approach to characterize the effect of γ -ray sterilization on wood. <i>Microchemical Journal</i> , 2018, 143, 493-502.	4.5	6
29	^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. <i>Microchemical Journal</i> , 2018, 141, 40-50.	4.5	9
30	Characterization of outdoor bronze monument patinas: the potentialities of near-infrared spectroscopic analysis. <i>Environmental Science and Pollution Research</i> , 2018, 25, 24379-24393.	5.3	22
31	A new integrated TLC/MU-ATR/SERS advanced approach for the identification of trace amounts of dyes in mixtures. <i>Analytica Chimica Acta</i> , 2017, 991, 104-112.	5.4	17
32	A follow-up on the analytical study of discolouration of the marble statues of Orsanmichele in Florence. <i>Environmental Science and Pollution Research</i> , 2017, 24, 334-352.	5.3	3
33	A Multivariate Methodological Workflow for the Analysis of FTIR Chemical Mapping Applied on Historic Paint Stratigraphies. <i>International Journal of Analytical Chemistry</i> , 2017, 2017, 1-12.	1.0	10
34	Identification of dyes in toned and tinted XX century cinematographic films by surface enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 337-344.	2.5	7
35	The potential of spectral and hyperspectral-imaging techniques for bacterial detection in food: A case study on lactic acid bacteria. <i>Talanta</i> , 2016, 153, 111-119.	5.5	37
36	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. <i>Topics in Current Chemistry</i> , 2016, 374, 32.	5.8	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). <i>Analytica Chimica Acta</i> , 2016, 941, 67-79.	5.4	15
38	The Green Attitude in Art Conservation: Polyhydroxybutyrate-based Gels for the Cleaning of Oil Paintings. <i>ChemistrySelect</i> , 2016, 1, 4502-4508.	1.5	31
39	A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging. <i>Microchemical Journal</i> , 2016, 124, 247-255.	4.5	9
40	Use of nano gold obtained by laser ablation for SEIRA analyses of colorants. <i>Heritage Science</i> , 2014, 2, .	2.3	13
41	Localization of proteins in paint cross-sections by scanning electrochemical microscopy as an alternative immunochemical detection technique. <i>Analytica Chimica Acta</i> , 2014, 831, 31-37.	5.4	19
42	Chinese archaeological artefacts: Microstructure and corrosion behaviour of high-leaded bronzes. <i>Journal of Cultural Heritage</i> , 2014, 15, 283-291.	3.3	38
43	The use of laser pyrolysis-GC-MS for the analysis of paint cross sections. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 327-334.	5.5	12
44	FT-NIR microscopy: An advanced spectroscopic approach for the characterisation of paint cross-sections. <i>Microchemical Journal</i> , 2014, 112, 87-96.	4.5	24
45	Development of innovative embedding procedures for the analyses of paint cross sections in ATR FTIR microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 895-905.	3.7	27
46	Single and multiplexed immunoassays for the chemiluminescent imaging detection of animal glues in historical paint cross-sections. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 933-940.	3.7	29
47	Analysis of paint cross-sections: a combined multivariate approach for the interpretation of ATR-FTIR hyperspectral data arrays. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 625-633.	3.7	27
48	Alternative SERRS probes for the immunochemical localization of ovalbumin in paintings: an advanced mapping detection approach. <i>Analyst</i> , 2013, 138, 4532.	3.5	23
49	Evaluation of the effect of different paint cross section preparation methods on the performances of Fourier transformed infrared microscopy in total reflection mode. <i>Microchemical Journal</i> , 2013, 110, 314-319.	4.5	17
50	An advanced multivariate approach for processing X-ray fluorescence spectral and hyperspectral data from non-invasive in situ analyses on painted surfaces. <i>Analytica Chimica Acta</i> , 2012, 752, 30-38.	5.4	34
51	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. <i>Microchemical Journal</i> , 2012, 103, 79-89.	4.5	26
52	Effects of Imidazolium Ionic Liquids on Growth, Photosynthetic Efficiency, and Cellular Components of the Diatoms <i>Skeletonema marinoi</i> and <i>Phaeodactylum tricornutum</i> . <i>Chemical Research in Toxicology</i> , 2011, 24, 392-401.	3.3	40
53	Development of a multiplexed chemiluminescent immunochemical imaging technique for the simultaneous localization of different proteins in painting micro cross-sections. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2889-2897.	3.7	36
54	Application of ATR-far-infrared spectroscopy to the analysis of natural resins. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3081-3091.	3.7	38

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55	A round robin exercise in archaeometry: analysis of a blind sample reproducing a seventeenth century pharmaceutical ointment. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1847-1860.	3.7	13
56	Performance evaluation of mapping and linear imaging FTIR microspectroscopy for the characterisation of paint cross sections. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 899-910.	3.7	53
57	New Advances in the Application of FTIR Microscopy and Spectroscopy for the Characterization of Artistic Materials. <i>Accounts of Chemical Research</i> , 2010, 43, 792-801.	15.6	130
58	ATR and transmission analysis of pigments by means of far infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1023-1032.	3.7	25
59	Ultrasensitive chemiluminescent immunochemical identification and localization of protein components in painting cross-sections by microscope low-light imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 29-35.	3.7	40