

# Letizia Monico

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,324  
citations

361413

20  
h-index

345221

36  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1119  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ID21 X-ray and infrared microscopy beamline at the ESRF: status and recent applications to artistic materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 477-493.	3.0	140
2	Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Synchrotron X-ray Spectromicroscopy and Related Methods. 1. Artificially Aged Model Samples. <i>Analytical Chemistry</i> , 2011, 83, 1214-1223.	6.5	116
3	Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Synchrotron X-ray Spectromicroscopy and Related Methods. 2. Original Paint Layer Samples. <i>Analytical Chemistry</i> , 2011, 83, 1224-1231.	6.5	116
4	Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Spectromicroscopic Methods. 3. Synthesis, Characterization, and Detection of Different Crystal Forms of the Chrome Yellow Pigment. <i>Analytical Chemistry</i> , 2013, 85, 851-859.	6.5	92
5	Non-invasive identification of metal-oxalate complexes on polychrome artwork surfaces by reflection mid-infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 116, 270-280.	3.9	78
6	Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Spectromicroscopic Methods. 4. Artificial Aging of Model Samples of Co-Precipitates of Lead Chromate and Lead Sulfate. <i>Analytical Chemistry</i> , 2013, 85, 860-867.	6.5	69
7	The Use of Synchrotron Radiation for the Characterization of Artists' Pigments and Paintings. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 399-425.	5.4	63
8	Raman study of different crystalline forms of $PbCrO_4$ and $PbCr_{1-x}S_xO_4$ solid solutions for the noninvasive identification of chrome yellows in paintings: a focus on works by Vincent van Gogh. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1034-1045.	2.5	58
9	Evidence for Degradation of the Chrome Yellows in Van Gogh's Sunflowers: A Study Using Noninvasive In Situ Methods and Synchrotron Radiation-Based X-ray Techniques. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13923-13927.	13.8	52
10	Chromium speciation methods and infrared spectroscopy for studying the chemical reactivity of lead chromate-based pigments in oil medium. <i>Microchemical Journal</i> , 2016, 124, 272-282.	4.5	48
11	Photochemistry of Artists' Dyes and Pigments: Towards Better Understanding and Prevention of Colour Change in Works of Art. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7324-7334.	13.8	42
12	Non-Invasive and Non-Destructive Examination of Artistic Pigments, Paints, and Paintings by Means of X-Ray Methods. <i>Topics in Current Chemistry</i> , 2016, 374, 81.	5.8	41
13	Probing the chemistry of CdS paints in <i>The Scream</i> by in situ noninvasive spectroscopies and synchrotron radiation x-ray techniques. <i>Science Advances</i> , 2020, 6, eaay3514.	10.3	41
14	Full spectral XANES imaging using the Maia detector array as a new tool for the study of the alteration process of chrome yellow pigments in paintings by Vincent van Gogh. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 613-626.	3.0	40
15	Nanoscale Investigation of the Degradation Mechanism of a Historical Chrome Yellow Paint by Quantitative Electron Energy Loss spectroscopy Mapping of Chromium Species. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11360-11363.	13.8	35
16	Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Spectromicroscopic Methods. Part 5. Effects of Nonoriginal Surface Coatings into the Nature and Distribution of Chromium and Sulfur Species in Chrome Yellow Paints. <i>Analytical Chemistry</i> , 2014, 86, 10804-10811.	6.5	32
17	Chemical Mapping by Macroscopic X-ray Powder Diffraction (MA-XRPD) of Van Gogh's Sunflowers: Identification of Areas with Higher Degradation Risk. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7418-7422.	13.8	28
18	Role of the Relative Humidity and the Cd/Zn Stoichiometry in the Photooxidation Process of Cadmium Yellows ( $CdS/Cd_{1-x}Zn_xS$ ) in Oil Paintings. <i>Chemistry - A European Journal</i> , 2018, 24, 11584-11593.	3.3	27

#	ARTICLE	IF	CITATIONS
19	Synchrotron-based X-ray spectromicroscopy and electron paramagnetic resonance spectroscopy to investigate the redox properties of lead chromate pigments under the effect of visible light. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1500-1510.	3.0	25
20	A Roman Egyptian Painting Workshop: Technical Investigation of the Portraits from Tebtunis, Egypt. <i>Archaeometry</i> , 2018, 60, 815-833.	1.3	25
21	Damages Induced by Synchrotron Radiation-Based X-ray Microanalysis in Chrome Yellow Paints and Related Cr-Compounds: Assessment, Quantification, and Mitigation Strategies. <i>Analytical Chemistry</i> , 2020, 92, 14164-14173.	6.5	22
22	Disclosing the Binding Medium Effects and the Pigment Solubility in the (Photo)reduction Process of Chrome Yellows (PbCrO <sub>4</sub> /PbCr <sub>2</sub> O <sub>7</sub> ). <i>ACS Omega</i> , 2019, 4, 6607-6619.	3.5	17
23	The "Historical Materials BAG": A New Facilitated Access to Synchrotron X-ray Diffraction Analyses for Cultural Heritage Materials at the European Synchrotron Radiation Facility. <i>Molecules</i> , 2022, 27, 1997.	3.8	17
24	Tracking Metal Oxalates and Carboxylates on Painting Surfaces by Non-invasive Reflection Mid-FTIR Spectroscopy. <i>Cultural Heritage Science</i> , 2019, , 173-193.	0.4	13
25	A non-invasive multi-technique investigation of Banqueting House Whitehall Rubens ceiling paintings. <i>Microchemical Journal</i> , 2020, 156, 104797.	4.5	10
26	Non-Invasive and Non-Destructive Examination of Artistic Pigments, Paints, and Paintings by Means of X-Ray Methods. <i>Topics in Current Chemistry Collections</i> , 2017, , 77-128.	0.5	10
27	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
28	Synchrotron radiation Ca K-edge 2D-XANES spectroscopy for studying the stratigraphic distribution of calcium-based consolidants applied in limestones. <i>Scientific Reports</i> , 2020, 10, 14337.	3.3	6
29	Application of Synchrotron Radiation-Based Micro-Analysis on Cadmium Yellows in Pablo Picasso's "Femme". <i>Microscopy and Microanalysis</i> , 2022, 28, 1504-1513.	0.4	6
30	Deeper insights into the photoluminescence properties and (photo)chemical reactivity of cadmium red (CdS <sub>1-x</sub> Se <sub>x</sub> ) paints in renowned twentieth century paintings by state-of-the-art investigations at multiple length scales. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	5
31	Chemical Mapping by Macroscopic X-ray Powder Diffraction (MAXRPD) of Van Gogh's "Sunflowers": Identification of Areas with Higher Degradation Risk. <i>Angewandte Chemie</i> , 2018, 130, 7540-7544.	2.0	3
32	The Degradation Process of Lead Chromate Yellows in Paintings by Vincent van Gogh. <i>Microscopy and Microanalysis</i> , 2013, 19, 1424-1425.	0.4	2
33	Zur Photochemie von Künstlerfarben: Strategien zur Verhinderung von Farbveränderungen in Kunstwerken. <i>Angewandte Chemie</i> , 2018, 130, 7447-7457.	2.0	1
34	Chemical Mapping by Macroscopic X-ray Powder Diffraction (MAXRPD) of Van Gogh's "Sunflowers": Identification of Areas with Higher Degradation Risk ( <i>Angew. Chem.</i> 25/2018). <i>Angewandte Chemie</i> , 2018, 130, 7656-7656.	2.0	1
35	Synchrotron-based micro-analyses of artistic materials at ID21, ESRF. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1344-C1344.	0.1	1
36	Frontispiece: Role of the Relative Humidity and the Cd/Zn Stoichiometry in the Photooxidation Process of Cadmium Yellows (CdS/Cd <sub>1-x</sub> Zn <sub>x</sub> S) in Oil Paintings. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0