Mathieu Thoury

List of Publications by Year
in descending order

31	1,084	567281 15	414414 32
papers	citations	h-index	g-index

33	33	33	1060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visible and Infrared Imaging Spectroscopy of Picasso's Harlequin Musician: Mapping and Identification of Artist Materials in Situ. Applied Spectroscopy, 2010, 64, 584-594.	2.2	201
2	Use of imaging spectroscopy, fiber optic reflectance spectroscopy, and X-ray fluorescence to map and identify pigments in illuminated manuscripts. Studies in Conservation, 2014, 59, 91-101.	1.1	127
3	Development and trends in synchrotron studies of ancient and historical materials. Physics Reports, 2012, 519, 51-96.	25.6	125
4	Cultural heritage and archaeology materials studied by synchrotron spectroscopy and imaging. Applied Physics A: Materials Science and Processing, 2012, 106, 377-396.	2.3	87
5	Near-Infrared Luminescence of Cadmium Pigments: In Situ Identification and Mapping in Paintings. Applied Spectroscopy, 2011, 65, 939-951.	2.2	73
6	Synchrotron UVâ"Visible Multispectral Luminescence Microimaging of Historical Samples. Analytical Chemistry, 2011, 83, 1737-1745.	6.5	52
7	Nondestructive Varnish Identification by Ultraviolet Fluorescence Spectroscopy. Applied Spectroscopy, 2007, 61, 1275-1282.	2.2	42
8	A multiscalar photoluminescence approach to discriminate among semiconducting historical zinc white pigments. Analyst, The, 2013, 138, 4463.	3.5	39
9	Excitation emission and time-resolved fluorescence spectroscopy of selected varnishes used in historical musical instruments. Talanta, 2009, 80, 286-293.	5.5	32
10	Revealing the Distribution of Metal Carboxylates in Oil Paint from the Microâ€•to Nanoscale. Angewandte Chemie - International Edition, 2019, 58, 11652-11656.	13.8	28
11	Ancient materials specii¬cities for their synchrotron examination and insights into their epistemological implications. Journal of Cultural Heritage, 2013, 14, 277-289.	3.3	26
12	In-place molecular preservation of cellulose in 5,000-year-old archaeological textiles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19670-19676.	7.1	26
13	Pushing Raman spectroscopy over the edge: purported signatures of organic molecules in fossil animals are instrumental artefacts. BioEssays, 2021, 43, e2000295.	2.5	23
14	Radiation damages during synchrotron X-ray micro-analyses of Prussian blue and zinc white historic paintings: detection, mitigation and integration. Applied Physics A: Materials Science and Processing, 2015, 121, 949-955.	2.3	22
15	Micro to Nano: Multiscale IR Analyses Reveal Zinc Soap Heterogeneity in a 19th-Century Painting by Corot. Analytical Chemistry, 2022, 94, 3103-3110.	6.5	18
16	Emerging Approaches in Synchrotron Studies of Materials from Cultural and Natural History Collections. Topics in Current Chemistry, 2016, 374, 7.	5.8	17
17	Synchrotron-Based Phase Mapping in Corroded Metals: Insights from Early Copper-Base Artifacts. Analytical Chemistry, 2019, 91, 1815-1825.	6.5	15
18	Synchrotron DUV luminescence micro-imaging to identify and map historical organic coatings on wood. Analyst, The, 2015, 140, 5344-5353.	3.5	14

#	Article	IF	Citations
19	Experimental study on merits of virtual cleaning of paintings with aged varnish. Optics Express, 2015, 23, 33836.	3.4	14
20	Synchrotron Deep-UV Photoluminescence Imaging for the Submicrometer Analysis of Chemically Altered Zinc White Oil Paints. Analytical Chemistry, 2019, 91, 14887-14895.	6.5	14
21	The issue of eosin fading: A combined spectroscopic and mass spectrometric approach applied to historical lakes. Dyes and Pigments, 2020, 180, 108436.	3.7	14
22	Bi-directional reflectance of a varnished painting. Optics Communications, 2004, 231, 25-33.	2.1	13
23	Glow in the dark: Use of synchrotron Î¼XRF trace elemental mapping and multispectral macro-imaging on fossils from the Paris Biota (Bear Lake County, Idaho, USA). Geobios, 2019, 54, 71-79.	1.4	12
24	Deciphering the Chemistry of Cultural Heritage: Targeting Material Properties by Coupling Spectral Imaging with Image Analysis. Accounts of Chemical Research, 2021, 54, 2823-2832.	15.6	10
25	Implementation of a Neural Network for Multispectral Luminescence Imaging of Lake Pigment Paints. Applied Spectroscopy, 2015, 69, 430-441.	2.2	8
26	Short- and Long-Term Effects of X-ray Synchrotron Radiation on Cotton Paper. Biomacromolecules, 2020, 21, 2795-2807.	5.4	8
27	Revealing the Distribution of Metal Carboxylates in Oil Paint from the Microâ€•to Nanoscale. Angewandte Chemie, 2019, 131, 11778-11782.	2.0	7
28	X-ray Nanospectroscopy Reveals Binary Defect Populations in Sub-micrometric ZnO Crystallites. Journal of Physical Chemistry C, 2020, 124, 12596-12605.	3.1	6
29	Degradation of historical paper induced by synchrotron X-ray technical examination. Cellulose, 2022, 29, 4347-4364.	4.9	6
30	Microspectroscopic Investigation of Metal Soaps in Oil Paintings--a Case Study on late 19th Century		