Claudia Conti

List of Publications by Year
in descending order

54 papers	1,301 citations	304602 22 h-index	395590 33 g-index
54 all docs	54 docs citations	54 times ranked	1088 citing authors

#	Article	IF	Citations
1	Spatially offset Raman spectroscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	80
2	Subsurface Raman Analysis of Thin Painted Layers. Applied Spectroscopy, 2014, 68, 686-691.	1.2	70
3	Subsurface analysis of painted sculptures and plasters using micrometreâ€scale spatially offset Raman spectroscopy (microâ€SORS). Journal of Raman Spectroscopy, 2015, 46, 476-482.	1.2	70
4	Methodological evolutions of Raman spectroscopy in art and archaeology. Analytical Methods, 2016, 8, 8395-8409.	1.3	70
5	Phase transformation of calcium oxalate dihydrateâ€"monohydrate: Effects of relative humidity and new spectroscopic data. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 413-419.	2.0	59
6	Portable Sequentially Shifted Excitation Raman spectroscopy as an innovative tool for in situ chemical interrogation of painted surfaces. Analyst, The, 2016, 141, 4599-4607.	1.7	56
7	Stability and transformation mechanism of weddellite nanocrystals studied by X-ray diffraction and infrared spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 14560.	1.3	54
8	Comparison of key modalities of micro-scale spatially offset Raman spectroscopy. Analyst, The, 2015, 140, 8127-8133.	1.7	44
9	Synthesis of calcium oxalate trihydrate: New data by vibrational spectroscopy and synchrotron X-ray diffraction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 721-730.	2.0	44
10	Noninvasive Analysis of Thin Turbid Layers Using Microscale Spatially Offset Raman Spectroscopy. Analytical Chemistry, 2015, 87, 5810-5815.	3.2	41
11	Ammonium oxalate treatment: Evaluation by Î¼-Raman mapping of the penetration depth in different plasters. Journal of Cultural Heritage, 2011, 12, 372-379.	1.5	34
12	Diammonium hydrogenphosphate for the consolidation of building materials. Investigation of newly-formed calcium phosphates. Construction and Building Materials, 2019, 195, 557-563.	3.2	34
13	Microâ€Raman mapping on polished cross sections: a tool to define the penetration depth of conservation treatment on cultural heritage. Journal of Raman Spectroscopy, 2010, 41, 1254-1260.	1.2	33
14	The detection of copper resinate pigment in works of art: contribution from Raman spectroscopy. Journal of Raman Spectroscopy, 2014, 45, 1186-1196.	1.2	31
15	Î¼â€Raman mapping to study calcium oxalate historical films. Journal of Raman Spectroscopy, 2012, 43, 1604-1611.	1.2	29
16	Development of a full micro-scale spatially offset Raman spectroscopy prototype as a portable analytical tool. Analyst, The, 2017, 142, 351-355.	1.7	29
17	Technological features of Renaissance pottery from Deruta (Umbria, Italy): An experimental study. Applied Clay Science, 2006, 33, 230-246.	2.6	27
18	The stucco decorations from St. Lorenzo in Laino (Como, Italy): The materials and the techniques employed by the â€œMagistri Comaciniâ€. Analytica Chimica Acta, 2008, 630, 91-100.	2.6	26

#	ARTICLE	IF	CITATIONS
19	The role of zinc white pigment on the degradation of shellac resin in artworks. Polymer Degradation and Stability, 2014, 102, 138-144.	2.7	26
20	Development of portable defocusing micro-scale spatially offset Raman spectroscopy. Analyst, The, 2016, 141, 3012-3019.	1.7	25
21	Discovering Hidden Painted Images: Subsurface Imaging Using Microscale Spatially Offset Raman Spectroscopy. Analytical Chemistry, 2017, 89, 792-798.	3.2	25
22	Monte Carlo Simulations of Subsurface Analysis of Painted Layers in Micro-Scale Spatially Offset Raman Spectroscopy. Applied Spectroscopy, 2015, 69, 1091-1095.	1.2	23
23	Fluorescence suppression using micro-scale spatially offset Raman spectroscopy. Analyst, The, 2016, 141, 5374-5381.	1.7	21
24	Diethyl oxalate as a new potential conservation product for decayed carbonatic substrates. Journal of Cultural Heritage, 2014, 15, 336-338.	1.5	18
25	Advances in Raman spectroscopy for the non-destructive subsurface analysis of artworks: Micro-SORS. Journal of Cultural Heritage, 2020, 43, 319-328.	1.5	18
26	Investigation of ammonium oxalate diffusion in carbonatic substrates by neutron tomography. Journal of Cultural Heritage, 2016, 19, 463-466.	1.5	17
27	Development of neutron imaging quantitative data treatment to assess conservation products in cultural heritage. Analytical and Bioanalytical Chemistry, 2017, 409, 6133-6139.	1.9	17
28	Development of a Fiber-Optics Microspatially Offset Raman Spectroscopy Sensor for Probing Layered Materials. Analytical Chemistry, 2017, 89, 9218-9223.	3.2	17
29	Terracotta polychrome sculptures examined before and after their conservation work: contributions from non-invasive in situ analytical techniques. Analytical and Bioanalytical Chemistry, 2011, 401, 757-765.	1.9	15
30	Portable Raman versus portable mid-FTIR reflectance instruments to monitor synthetic treatments used for the conservation of monument surfaces. Analytical and Bioanalytical Chemistry, 2013, 405, 1733-1741.	1.9	15
31	A multi-analytical approach for the characterization of wall painting materials on contemporary buildings. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 39-45.	2.0	15
32	Exploring street art paintings by microspatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 1652-1659.	1.2	15
33	Determination of thickness of thin turbid painted over-layers using micro-scale spatially offset Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160049.	1.6	14
34	Development of defocusing micro-SORS mapping: a study of a 19th century porcelain card. Analytical Methods, 2017, 9, 6435-6442.	1.3	14
35	Close to the diffraction limit in high resolution ATR FTIR mapping: demonstration on micrometric multi-layered art systems. Analyst, The, 2017, 142, 4801-4811.	1.7	14
36	Diammonium Hydrogenphosphate Treatment on Dolostone: the Role of Mg in the Crystallization Process. Coatings, 2019, 9, 169.	1.2	14

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37	Synchrotron radiation Î¼ X-ray diffraction in transmission geometry for investigating the penetration depth of conservation treatments on cultural heritage stone materials. Analytical Methods, 2020, 12, 1587-1594.	1.3	12
38	Investigation of Heterogeneous Painted Systems by Micro-Spatially Offset Raman Spectroscopy. Analytical Chemistry, 2017, 89, 11476-11483.	3.2	11
39	Neutron radiography as a tool for assessing penetration depth and distribution of a phosphate consolidant for limestone. Construction and Building Materials, 2018, 187, 238-247.	3.2	11
40	Consolidation of building materials with a phosphate-based treatment: Effects on the microstructure and on the 3D pore network. Materials Characterization, 2019, 154, 315-324.	1.9	11
41	Analytical Capability of Defocused Âµ-SORS in the Chemical Interrogation of Thin Turbid Painted Layers. Applied Spectroscopy, 2016, 70, 156-161.	1.2	10
42	High Resolution ATR Î¼-FTIR to map the diffusion of conservation treatments applied to painted plasters. Vibrational Spectroscopy, 2018, 98, 105-110.	1.2	10
43	What's underneath? A non-destructive depth profile of painted stratigraphies by synchrotron grazing incidence X-ray diffraction. Analyst, The, 2018, 143, 4290-4297.	1.7	10
44	Nonâ€invasive and <i>in situ</i> investigation of layers sequence in panel paintings by portable microâ€spatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2016-2021.	1.2	10
45	Sub-Surface Molecular Analysis and Imaging in Turbid Media Using Time-Gated Raman Spectral Multiplexing. Applied Spectroscopy, 2021, 75, 156-167.	1.2	10
46	Grazing incidence synchrotron X-ray diffraction of marbles consolidated with diammonium hydrogen phosphate treatments: non-destructive probing of buried minerals. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	9
47	Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS. Talanta, 2020, 218, 121078.	2.9	9
48	Polychrome sculptures of medieval Italian monuments: Study of the binding media and pigments. Microchemical Journal, 2020, 158, 105100.	2.3	9
49	Contrasting confocal XRF with micro-SORS: a deep view within micrometric painted stratigraphy. Analytical Methods, 2018, 10, 3837-3844.	1.3	8
50	Micro-Raman depth profiling on polished cross-sections: the mapping of oxalates used in protective treatment of carbonatic substrate. Journal of Raman Spectroscopy, 2008, 39, 1307-1308.	1.2	5
51	Archaeometric and archaeological study of painted plaster from the Church of St. Philip in Hierapolis of Phrygia (Turkey). Journal of Archaeological Science: Reports, 2019, 24, 869-878.	0.2	5
52	Chemically and size-resolved particulate matter dry deposition on stone and surrogate surfaces inside and outside the low emission zone of Milan: application of a newly developed â€œDeposition Boxâ€. Environmental Science and Pollution Research, 2018, 25, 9402-9415.	2.7	4
53	Non-destructive Monitoring of Dye Depth Profile in Mesoporous TiO₂ Electrodes of Solar Cells with Micro-SORS. Analytical Chemistry, 2022, 94, 2966-2972.	3.2	2
54	Nonâ€destructive analysis of concentration profiles in turbid media using microâ€spatially offset Raman spectroscopy: A physical model. Journal of Raman Spectroscopy, 2022, 53, 1592-1603.	1.2	1