

Lucia Toniolo

List of Publications by Year in descending order

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120
papers

3,152
citations

126708

33
h-index

182168

51
g-index

123
all docs

123
docs citations

123
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative evaluation of fluorinated and unfluorinated acrylic copolymers as water-repellent coating materials for stone. <i>Journal of Applied Polymer Science</i> , 2000, 76, 962-977.	1.3	146
2	Analytical investigation of calcium oxalate films on marble monuments. <i>Talanta</i> , 2004, 63, 967-977.	2.9	132
3	Tailoring new fluorinated acrylic copolymers as protective coatings for marble. <i>Journal of Cultural Heritage</i> , 2002, 3, 309-316.	1.5	124
4	The analysis of polychrome works of art: 40 years of infrared spectroscopic investigations. <i>Journal of Cultural Heritage</i> , 2001, 2, 71-78.	1.5	110
5	Spectrochemical characterization by micro-FTIR spectroscopy of blue pigments in different polychrome works of art. <i>Vibrational Spectroscopy</i> , 1999, 20, 15-25.	1.2	109
6	Bacterial and fungal deterioration of the Milan Cathedral marble treated with protective synthetic resins. <i>Science of the Total Environment</i> , 2007, 385, 172-181.	3.9	109
7	Advantages of Using Microbial Technology over Traditional Chemical Technology in Removal of Black Crusts from Stone Surfaces of Historical Monuments. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5671-5675.	1.4	95
8	Fluorescence lifetime imaging and spectroscopy as tools for nondestructive analysis of works of art. <i>Applied Optics</i> , 2004, 43, 2175.	2.1	75
9	Calcium Oxalate Films on Stone Surfaces: Experimental Assessment of the Chemical Formation. <i>Studies in Conservation</i> , 2000, 45, 180.	0.6	62
10	Identification of pigments on a XV century illuminated parchment by Raman and FTIR microspectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 1371-1377.	2.0	58
11	Non-invasive identification of plastic materials in museum collections with portable FTIR reflectance spectroscopy: Reference database and practical applications. <i>Microchemical Journal</i> , 2016, 124, 868-877.	2.3	57
12	Synchrotron-based FTIR microspectroscopy for the mapping of photo-oxidation and additives in acrylonitrile- <i>butadiene</i> -styrene model samples and historical objects. <i>Analytica Chimica Acta</i> , 2014, 843, 59-72.	2.6	56
13	Characterization of ancient magnesian mortars coming from northern Italy. <i>Thermochimica Acta</i> , 1998, 321, 161-165.	1.2	55
14	Commercial NHL-containing mortars for the preservation of historical architecture. Part 1: Compositional and mechanical characterisation. <i>Construction and Building Materials</i> , 2013, 38, 31-42.	3.2	55
15	Efficient self-cleaning treatments for built heritage based on highly photo-active and well-dispersible TiO ₂ nanocrystals. <i>Microchemical Journal</i> , 2016, 126, 54-62.	2.3	55
16	The combined effect of roughness and heterogeneity on contact angles: the case of polymer coating for stone protection. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 273-299.	1.4	54
17	The experimental test for the evaluation of protective treatments: a critical survey of the "capillary absorption index". <i>Journal of Cultural Heritage</i> , 2003, 4, 251-254.	1.5	54
18	Time-Resolved Photoluminescence Spectroscopy and Imaging: New Approaches to the Analysis of Cultural Heritage and Its Degradation. <i>Sensors</i> , 2014, 14, 6338-6355.	2.1	54

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19	Synthetic Consolidants Attacked by Melanin-Producing Fungi: Case Study of the Biodeterioration of Milan (Italy) Cathedral Marble Treated with Acrylics. <i>Applied and Environmental Microbiology</i> , 2007, 73, 271-277.	1.4	51
20	Structure control, coating properties, and durability of fluorinated acrylic-based polymers. <i>Journal of Coatings Technology</i> , 2002, 74, 57-66.	0.7	50
21	Degradation of nitrocellulose-based paint by <i>Desulfovibrio desulfuricans</i> ATCC 13541. <i>Biodegradation</i> , 2012, 23, 705-716.	1.5	48
22	The application of the contact angle in monument protection: new materials and methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 241, 299-312.	2.3	47
23	The protection of different Italian marbles with two partially fluorinated acrylic copolymers. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 347-351.	1.1	45
24	The Angera stone: a challenging conservation issue in the polluted environment of Milan (Italy). <i>Environmental Earth Sciences</i> , 2013, 69, 1085-1094.	1.3	45
25	Black layers on historical architecture. <i>Environmental Science and Pollution Research</i> , 2009, 16, 218-226.	2.7	41
26	Insights into Masolino's wall paintings in Castiglione Olona: Advanced reflectance and fluorescence imaging analysis. <i>Journal of Cultural Heritage</i> , 2011, 12, 11-18.	1.5	40
27	A portable UV-fluorescence multispectral imaging system for the analysis of painted surfaces. <i>Review of Scientific Instruments</i> , 2008, 79, 086112.	0.6	38
28	Biofilm colonization of metamorphic lithotypes of a renaissance cathedral exposed to urban atmosphere. <i>Science of the Total Environment</i> , 2018, 639, 1480-1490.	3.9	38
29	CALCIUM OXALATE FILMS ON STONE SURFACES: EXPERIMENTAL ASSESSMENT OF THE CHEMICAL FORMATION. <i>Studies in Conservation</i> , 2000, 45, 180-188.	0.6	37
30	Fluorescence Lifetime Imaging and Fourier Transform Infrared Spectroscopy of Michelangelo's David. <i>Applied Spectroscopy</i> , 2005, 59, 1174-1181.	1.2	36
31	Assessment of the ageing of triterpenoid paint varnishes using fluorescence, Raman and FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2139-2149.	1.9	36
32	The Silk Road, Marco Polo, a bible and its proteome: A detective story. <i>Journal of Proteomics</i> , 2012, 75, 3365-3373.	1.2	35
33	Successful combination of chemical and biological treatments for the cleaning of stone artworks. <i>International Biodeterioration and Biodegradation</i> , 2013, 85, 294-304.	1.9	35
34	Effects of wax-based anti-graffiti on copper patina composition and dissolution during four years of outdoor urban exposure. <i>Journal of Cultural Heritage</i> , 2010, 11, 288-296.	1.5	34
35	On-site monitoring of the performance of innovative treatments for marble conservation in architectural heritage. <i>Heritage Science</i> , 2017, 5, .	1.0	34
36	Mechanical behaviour of lime based mortars after surface consolidation. <i>Construction and Building Materials</i> , 2011, 25, 1553-1559.	3.2	33

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37	Setup of a sustainable indoor cleaning methodology for the sculpted stone surfaces of the Duomo of Milan. <i>Heritage Science</i> , 2014, 2, 6.	1.0	33
38	Importance of subaerial biofilms and airborne microflora in the deterioration of stonework: a molecular study. <i>Biofouling</i> , 2012, 28, 1093-1106.	0.8	32
39	Photocatalytic Nanocomposites for the Protection of European Architectural Heritage. <i>Materials</i> , 2018, 11, 65.	1.3	32
40	Highly transparent poly(2-ethyl-2-oxazoline)-TiO ₂ nanocomposite coatings for the conservation of matte painted artworks. <i>RSC Advances</i> , 2015, 5, 84879-84888.	1.7	30
41	WHITE LUMPS IN FIFTH-TO SEVENTEENTH-CENTURY AD MORTARS FROM NORTHERN ITALY. <i>Archaeometry</i> , 1997, 39, 1-7.	0.6	29
42	The degradation of poly(vinyl acetate) as a material for design objects: A multi-analytical study of the effect of dibutyl phthalate plasticizer. Part 1. <i>Polymer Degradation and Stability</i> , 2012, 97, 2441-2448.	2.7	29
43	On the discovery of an unusual luminescent pigment in Van Gogh's painting "Les bretonnes et le pardon de pont Aven". <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 25-34.	1.1	29
44	Characterization of fresh and aged natural ingredients used in historical ointments by molecular spectroscopic techniques: IR, Raman and fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1827-1837.	1.9	28
45	A chemometric approach to the characterisation of historical mortars. <i>Cement and Concrete Research</i> , 2006, 36, 1108-1114.	4.6	26
46	Layered Nano-TiO ₂ Based Treatments for the Maintenance of Natural Stones in Historical Architecture. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7360-7363.	7.2	25
47	Commercial NHL-containing mortars for the preservation of historical architecture. Part 2: Durability to salt decay. <i>Construction and Building Materials</i> , 2015, 96, 198-208.	3.2	24
48	Advanced non-invasive fluorescence spectroscopy and imaging for mapping photo-oxidative degradation in acrylonitrile-butadiene-styrene: A study of model samples and of an object from the 1960s. <i>Polymer Degradation and Stability</i> , 2014, 107, 356-365.	2.7	21
49	A Novel Classification Method for Multispectral Imaging Combined with Portable Raman Spectroscopy for the Analysis of a Painting by Vincent Van Gogh. <i>Applied Spectroscopy</i> , 2013, 67, 1234-1241.	1.2	20
50	Adapting the properties of new fluorinated acrylic polymers to suit the conservation of ancient monuments. <i>Journal of Coatings Technology and Research</i> , 1998, 81, 551-556.	0.2	19
51	Study of sulphation of Candoglia marble by means of micro X-ray diffraction experiments. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 689-694.	1.1	19
52	GILDINGS AND FALSE GILDINGS OF THE BAROQUE AGE: CHARACTERIZATION AND CONSERVATION PROBLEMS. <i>Archaeometry</i> , 2012, 54, 940-954.	0.6	19
53	Time-Resolved Photoluminescence Microscopy Combined with X-ray Analyses and Raman Spectroscopy Sheds Light on the Imperfect Synthesis of Historical Cadmium Pigments. <i>Analytical Chemistry</i> , 2018, 90, 10771-10779.	3.2	19
54	Conservation of the Built Heritage: Pilot Site Approach to Design a Sustainable Process. <i>Heritage</i> , 2019, 2, 797-812.	0.9	19

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55	Polymer Treatments for Stone Conservation: Methods for Evaluating Penetration Depth. Journal of the American Institute for Conservation, 2004, 43, 3-21.	0.2	18
56	A portable NMR device for the evaluation of water presence in building materials. Journal of Cultural Heritage, 2007, 8, 134-140.	1.5	18
57	Aesthetic Alteration of Marble Surfaces Caused by Biofilm Formation: Effects of Chemical Cleaning. Coatings, 2020, 10, 122.	1.2	17
58	Use and reuse of amphorae. Wine residues in Dressel 24 amphorae from Oplontis Villa B (Torre Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	16
59	Improvements in marble protection by means of innovative photocatalytic nanocomposites. Progress in Organic Coatings, 2018, 121, 13-22.	1.9	16
60	Study and Characterization of Environmental Deposition on Marble and Surrogate Substrates at a Monumental Heritage Site. Geosciences (Switzerland), 2018, 8, 349.	1.0	16
61	Effects of cleaning procedures on the long-term corrosion behavior of bronze artifacts of the cultural heritage in outdoor environment. Environmental Science and Pollution Research, 2020, 27, 13081-13094.	2.7	16
62	On the photoluminescence changes induced by ageing processes on zinc white paints. Microchemical Journal, 2018, 139, 467-474.	2.3	15
63	Polymer Treatments for Stone Conservation: Methods for Evaluating Penetration Depth. Journal of the American Institute for Conservation, 2004, 43, 3.	0.2	15
64	Gilded Stuccoes of the Italian Baroque. Studies in Conservation, 1998, 43, 201.	0.6	14
65	Fluorinated polymeric materials for the protection of monumental buildings. Macromolecular Symposia, 2000, 152, 211-222.	0.4	14
66	Partially fluorinated acrylic copolymers as coatings for stone protection: characterization and surface properties. Materials Research Society Symposia Proceedings, 2002, 712, 331.	0.1	14
67	Photoluminescence imaging of modern paintings: there is plenty of information at the microsecond timescale. Microchemical Journal, 2020, 154, 104618.	2.3	14
68	Durability of Protective Polymers: The Effect of UV and Thermal Ageing. Macromolecular Symposia, 2006, 238, 78-83.	0.4	13
69	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.	1.9	13
70	The degradation of poly(vinyl acetate) as a material for design objects: A multi-analytical study of the Cocoon lamps. Part 2. Polymer Degradation and Stability, 2013, 98, 2215-2223.	2.7	13
71	Characterization of plasters from the church of San Niccolo di Comelico (Belluno - Northern Italy). European Journal of Mineralogy, 1991, 3, 619-628.	0.4	13
72	N-vanillynonanamide tested as a non-toxic antifoulant, applied to surfaces in a polyurethane coating. Biotechnology Letters, 2009, 31, 1407-1413.	1.1	12

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73	A Black Paint on the Facade of a Renaissance Building in Bergamo, Italy. <i>Studies in Conservation</i> , 1996, 41, 193.	0.6	11
74	Fluorescence and Fourier-transform infrared spectroscopy for the analysis of iconic Italian design lamps made of polymeric materials. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2977-2986.	1.9	11
75	Multi-analytical approach for the morphological, molecular, and mechanical characterization after photo-oxidation of polymers used in artworks. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46194.	1.3	11
76	Stone/Coating Interaction and Durability of Si-Based Photocatalytic Nanocomposites Applied to Porous Lithotypes. <i>Materials</i> , 2018, 11, 2289.	1.3	11
77	An investigation into the synthesis of cadmium sulfide pigments for a better understanding of their reactivity in artworks. <i>Dyes and Pigments</i> , 2021, 186, 108998.	2.0	10
78	Layered Nano-TiO ₂ Based Treatments for the Maintenance of Natural Stones in Historical Architecture. <i>Angewandte Chemie</i> , 2018, 130, 7482-7485.	1.6	9
79	The deterioration of Apuan white marble in contemporary architectural context. <i>Journal of Cultural Heritage</i> , 2019, 35, 297-306.	1.5	9
80	Experimental Study on the Link between Optical Emission, Crystal Defects and Photocatalytic Activity of Artist Pigments Based on Zinc Oxide. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1129.	0.8	9
81	Semi-empirical models to describe the absorption of liquid water in natural stones employed in built heritage before and after the application of water repellent treatments. <i>Construction and Building Materials</i> , 2020, 241, 117918.	3.2	9
82	Polychromy on stone bas-reliefs: the case of the basilica of Saint-Ambrogio in Milan. <i>Journal of Cultural Heritage</i> , 2005, 6, 79-88.	1.5	8
83	Setup of Galvanic Sensors for the Monitoring of Gilded Bronzes. <i>Sensors</i> , 2014, 14, 7066-7083.	2.1	8
84	Electrokinetic Characterization of Natural Stones Coated with Nanocomposites for the Protection of Cultural Heritage. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1694.	1.3	8
85	Self-cleaning and antifouling nanocomposites for stone protection: properties and performances of stone-nanomaterial systems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 364, 012070.	0.3	8
86	Inspecting adhesion and cohesion of protectives and consolidants in sandstones of architectural heritage by X-ray microscopy methods. <i>Materials Characterization</i> , 2019, 156, 109853.	1.9	8
87	Artificial Ageing of Photocatalytic Nanocomposites for the Protection of Natural Stones. <i>Coatings</i> , 2020, 10, 729.	1.2	8
88	Correct use of the contact angle in the evaluation of the protective action induced from polymer coating on the stone. <i>Annali Di Chimica</i> , 2003, 93, 881-8.	0.6	8
89	Gilded stuccoes of the Italian baroque. <i>Studies in Conservation</i> , 1998, 43, 201-208.	0.6	7
90	Photoluminescence excited at variable fluences: a novel approach for studying the emission from crystalline pigments in paints. <i>Analytical Methods</i> , 2020, 12, 4007-4014.	1.3	7

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91	Bramante in Milan: the Cascina Pozzobonelli. Technical examination and restoration. <i>Studies in Conservation</i> , 1989, 34, 53-66.	0.6	6
92	A black paint on the facade of a Renaissance building in Bergamo, Italy. <i>Studies in Conservation</i> , 1996, 41, 193-204.	0.6	6
93	Anoxic treatment for the disinfestation of wood cultural heritage: assessment of the effects and harmfulness on different species. <i>Wood Science and Technology</i> , 2015, 49, 925-944.	1.4	6
94	The deterioration of metamorphic serpentinites used in historical architecture under atmospheric conditions. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2017, 50, 402-411.	0.8	6
95	A key factor in modern protection of historic buildings: the assessment of penetration of water-repellent polymers into porous stone-materials. <i>Annali Di Chimica</i> , 2001, 91, 823-32.	0.6	6
96	Partially fluorinated acrylic copolymers as coatings for calcareous stone materials. <i>Studies in Conservation</i> , 2000, 45, 1-6.	0.6	5
97	“Mi Fuma il Cervello” self-portrait series of Alighiero Boetti: evaluation of a conservation and maintenance strategy based on sacrificial coatings. <i>Heritage Science</i> , 2017, 5, .	1.0	5
98	Optimisation of the setup of LPR and EIS measurements for the onsite, non-invasive study of metallic artefacts. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 3257-3267.	1.2	4
99	Effect of fluorinated groups on photooxidative stability of polymeric protectives applied on marble. <i>Annali Di Chimica</i> , 2001, 91, 741-8.	0.6	4
100	Use of nanocoatings for the restoration of matte paintings. <i>Studies in Conservation</i> , 2016, 61, 265-266.	0.6	3
101	Evaluation of barium hydroxide treatment efficacy on a dolomitic marble. <i>Annali Di Chimica</i> , 2001, 91, 813-21.	0.6	3
102	Protection Efficacy of Fluorinated Acrylic Copolymers Applied on Historical Italian Marbles.. <i>Materials Research Society Symposia Proceedings</i> , 2004, 852, 288.	0.1	2
103	Fluorescence lifetime imaging for the analysis of works of art: application to fresco paintings and marble sculptures. <i>Journal of Neutron Research</i> , 2006, 14, 81-90.	0.4	2
104	Multi-spectral fluorescence imaging for cultural heritage. , 2007, , .		2
105	Commercial Ready-Mixed Mortars for the Conservation of Cultural Heritage: Characterization and Preliminary Durability Test. <i>Advanced Materials Research</i> , 2010, 133-134, 259-264.	0.3	2
106	Surface Treatment. , 2006, , 553-563.		2
107	Investigation of commercial ready-mixed mortars for architectural heritage. , 2009, , .		2
108	El efecto migratorio en la asistencia escolar en Chile. <i>Estudios Pedagogicos</i> , 2019, 45, 47-59.	0.1	2

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109	Innovative Nano-TiO ₂ Particles for Self-cleaning Treatments of Historic Architecture and Sculptures. Restoration of Buildings and Monuments, 2014, 20, 423-432.	0.6	2
110	Modelling the Effects of Protective Treatments in Porous Materials. Springer INdAM Series, 2021, , 73-83.	0.4	2
111	Preliminary Investigations, Condition Assessment, and Mapping of the Deterioration Patterns. Cultural Heritage Science, 2022, , 1-36.	0.3	2
112	Learning from history: the case of the San Carlone colossus after the test of time. Journal of the Institute of Conservation, 0, , 1-18.	0.2	2
113	INTERNATIONAL KLEIN BLUE: A CASE STUDY OF A CONTEMPORARY ARTISTS' PIGMENT. Studies in Conservation, 1998, 43, 30-30.	0.6	1
114	Advanced Imaging and Spectroscopy for the Conservation and Monitoring of Cultural Heritage. , 2013, , .		1
115	Investigating the mechanical behaviour of the lining system for Raphael's Cartoon "The School of Athens". Journal of Cultural Heritage, 2020, 43, 1-11.	1.5	1
116	LOMBARD RENAISSANCE FRESCOES: CORRELATION BETWEEN DECAY AND ENVIRONMENTAL CONDITIONS. Studies in Conservation, 1994, 39, 1-1.	0.6	0
117	Nd, Er and Excimer Laser Sources: Laboratory Evaluation of Cleaning Efficacy and of Interaction with Substrate. , 2005, , 363-368.		0
118	Fluorescence lifetime imaging in Cultural Heritage: experiences on Renaissance fresco paintings and Michelangelo's marble masterpieces. , 0, , .		0
119	Conservation Science 2007. Journal of Cultural Heritage, 2007, 8, 445.	1.5	0
120	Atypical coloration of plaster in renaissance frescoes. Annali Di Chimica, 2001, 91, 795-801.	0.6	0