

# Ilaria Degano

## List of Publications by Year in descending order

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120  
papers

3,363  
citations

136950

32  
h-index

175258

52  
g-index

124  
all docs

124  
docs citations

124  
times ranked

2996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Early evidence of San material culture represented by organic artifacts from Border Cave, South Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13214-13219.	7.1	330
2	Analytical Methods for the Characterization of Organic Dyes in Artworks and in Historical Textiles. <i>Applied Spectroscopy Reviews</i> , 2009, 44, 363-410.	6.7	198
3	Border Cave and the beginning of the Later Stone Age in South Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13208-13213.	7.1	158
4	The oxidation of natural flavonoid quercetin. <i>Chemical Communications</i> , 2012, 48, 3433.	4.1	108
5	Colour fading in textiles: A model study on the decomposition of natural dyes. <i>Microchemical Journal</i> , 2007, 85, 174-182.	4.5	107
6	On the stability of the bioactive flavonoids quercetin and luteolin under oxygen-free conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 975-982.	3.7	89
7	The Still Bay and Howiesons Poort at Sibudu and Blombos: Understanding Middle Stone Age Technologies. <i>PLoS ONE</i> , 2015, 10, e0131127.	2.5	86
8	Analytical methods for determination of anthraquinone dyes in historical textiles: A review. <i>Analytica Chimica Acta</i> , 2019, 1083, 58-87.	5.4	79
9	Historical and archaeological textiles: An insight on degradation products of wool and silk yarns. <i>Journal of Chromatography A</i> , 2011, 1218, 5837-5847.	3.7	67
10	Recent Advances in Analytical Pyrolysis to Investigate Organic Materials in Heritage Science. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7313-7323.	13.8	61
11	A Milk and Ochre Paint Mixture Used 49,000 Years Ago at Sibudu, South Africa. <i>PLoS ONE</i> , 2015, 10, e0131273.	2.5	59
12	Core shell stationary phases for a novel separation of triglycerides in plant oils by high performance liquid chromatography with electrospray-quadrupole-time of flight mass spectrometer. <i>Journal of Chromatography A</i> , 2013, 1308, 114-124.	3.7	58
13	The oxidation of luteolin, the natural flavonoid dye. <i>Electrochimica Acta</i> , 2013, 110, 646-654.	5.2	53
14	Development and validation of an HPLC-DAD and HPLC/ESI-MS2 method for the determination of polyphenols in monofloral honeys from Tuscany (Italy). <i>Microchemical Journal</i> , 2016, 126, 220-229.	4.5	53
15	The oxidation mechanism of the antioxidant quercetin in nonaqueous media. <i>Electrochimica Acta</i> , 2011, 56, 7421-7427.	5.2	51
16	Py-GC/MS applied to the analysis of synthetic organic pigments: characterization and identification in paint samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1415-1431.	3.7	51
17	A multi-analytical study on the photochemical degradation of synthetic organic pigments. <i>Dyes and Pigments</i> , 2015, 123, 396-403.	3.7	51
18	A novel HPLC-ESI-Q-ToF approach for the determination of fatty acids and acylglycerols in food samples. <i>Analytica Chimica Acta</i> , 2018, 1013, 98-109.	5.4	47

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19	On the influence of relative humidity on the oxidation and hydrolysis of fresh and aged oil paints. <i>Scientific Reports</i> , 2019, 9, 5533.	3.3	47
20	Novel application of liquid chromatography/mass spectrometry for the characterization of drying oils in art: Elucidation on the composition of original paint materials used by Edvard Munch (1863–1944). <i>Analytica Chimica Acta</i> , 2015, 896, 177-189.	5.4	43
21	New methodologies for the detection, identification, and quantification of microplastics and their environmental degradation by-products. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46764-46780.	5.3	43
22	From Neandertals to modern humans: New data on the Uluzzian. <i>PLoS ONE</i> , 2018, 13, e0196786.	2.5	40
23	A chemical study of organic materials in three murals by Keith Haring: A comparison of painting techniques. <i>Microchemical Journal</i> , 2016, 124, 940-948.	4.5	38
24	Determination of salivary $\alpha$ -amylase and cortisol in psoriatic subjects undergoing the Trier Social Stress Test. <i>Microchemical Journal</i> , 2018, 136, 177-184.	4.5	38
25	GC-MS and HPLC-ESI-QToF characterization of organic lipid residues from ceramic vessels used by Basque whalers from 16th to 17th centuries. <i>Microchemical Journal</i> , 2018, 137, 190-203.	4.5	38
26	Model study of modern oil-based paint media by triacylglycerol profiling in positive and negative ionization modes. <i>Talanta</i> , 2016, 161, 62-70.	5.5	37
27	HPLC-DAD and HPLC-ESI-Q-ToF characterisation of early 20th century lake and organic pigments from Lefranc archives. <i>Heritage Science</i> , 2017, 5, .	2.3	37
28	Hafting of Middle Paleolithic tools in Latium (central Italy): New data from Fossellone and Sant'Agostino caves. <i>PLoS ONE</i> , 2019, 14, e0213473.	2.5	37
29	Historical linseed oil/colophony varnishes formulations: Study of their molecular composition with micro-chemical chromatographic techniques. <i>Microchemical Journal</i> , 2016, 126, 200-213.	4.5	36
30	Synthetic materials in art: a new comprehensive approach for the characterization of multi-material artworks by analytical pyrolysis. <i>Heritage Science</i> , 2019, 7, .	2.3	34
31	Multi-analytical techniques for the study of pre-Columbian mummies and related funerary materials. <i>Journal of Archaeological Science</i> , 2009, 36, 1783-1790.	2.4	33
32	Alkyd paints in art: Characterization using integrated mass spectrometry. <i>Analytica Chimica Acta</i> , 2013, 797, 64-80.	5.4	33
33	Trends in High Performance Liquid Chromatography for Cultural Heritage. <i>Topics in Current Chemistry</i> , 2016, 374, 20.	5.8	33
34	Photo-oxidation processes of Rhodamine B: A chromatographic and mass spectrometric approach. <i>Microchemical Journal</i> , 2018, 140, 114-122.	4.5	31
35	Mass spectrometric techniques for characterizing low-molecular-weight resins used as paint varnishes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1047-1065.	3.7	30
36	Oxidation mechanism of flavanone taxifolin. <i>Electrochemical and spectroelectrochemical investigation. Electrochimica Acta</i> , 2016, 187, 358-363.	5.2	30

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37	Triarylmethine dyes: Characterization of isomers using integrated mass spectrometry. <i>Dyes and Pigments</i> , 2019, 160, 587-596.	3.7	29
38	Colorants and oils in Roman make-ups—“an eye witness account. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 1019-1028.	11.4	28
39	Exploring the oxidation and iron binding profile of a cyclodextrin encapsulated quercetin complex unveiled a controlled complex dissociation through a chemical stimulus. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1913-1924.	2.4	28
40	Identification of triacylglycerols in archaeological organic residues by core—shell reversed phase liquid chromatography coupled to electrospray ionization-quadrupole-time of flight mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1346, 78-87.	3.7	27
41	Investigating the composition and degradation of wool through EGA/MS and Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 111-121.	5.5	27
42	Development and Optimisation of an HPLC-DAD-ESI-Q-ToF Method for the Determination of Phenolic Acids and Derivatives. <i>PLoS ONE</i> , 2014, 9, e88762.	2.5	27
43	Effects of acetic acid vapour on the ageing of alkyd paint layers: Multi-analytical approach for the evaluation of the degradation processes. <i>Polymer Degradation and Stability</i> , 2014, 105, 257-264.	5.8	26
44	The study of the oxidation of the natural flavonol fisetin confirmed quercetin oxidation mechanism. <i>Electrochimica Acta</i> , 2015, 182, 544-549.	5.2	25
45	Plastic breeze: Volatile organic compounds (VOCs) emitted by degrading macro- and microplastics analyzed by selected ion flow-tube mass spectrometry. <i>Chemosphere</i> , 2021, 270, 128612.	8.2	25
46	On the difference in decomposition of taxifolin and luteolin vs. fisetin and quercetin in aqueous media. <i>Monatshefte für Chemie</i> , 2016, 147, 1375-1383.	1.8	24
47	Industrial alkyd resins: characterization of pentaerythritol and phthalic acid esters using integrated mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 225-237.	1.5	23
48	Identification of inorganic dyeing mordant in textiles by surface-enhanced laser-induced breakdown spectroscopy. <i>Microchemical Journal</i> , 2018, 139, 230-235.	4.5	23
49	The role of the polymeric network in the water sensitivity of modern oil paints. <i>Scientific Reports</i> , 2019, 9, 3467.	3.3	23
50	The unprecedented identification of Safflower dyestuff in a 16th century tapestry through the application of a new reliable diagnostic procedure. <i>Journal of Cultural Heritage</i> , 2011, 12, 295-299.	3.3	22
51	Detection of plastic particles in marine sponges by a combined infrared micro-spectroscopy and pyrolysis-gas chromatography-mass spectrometry approach. <i>Science of the Total Environment</i> , 2022, 819, 152965.	8.0	22
52	A Mass Spectrometric Study on Tannin Degradation within Dyed Woolen Yarns. <i>Molecules</i> , 2019, 24, 2318.	3.8	20
53	Validation Study of Selected Ion Flow Tube-Mass Spectrometry (SIFT-MS) in Heritage Science: Characterization of Natural and Synthetic Paint Varnishes by Portable Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2250-2258.	2.8	20
54	Revealing the organic dye and mordant composition of Paracas textiles by a combined analytical approach. <i>Heritage Science</i> , 2020, 8, .	2.3	19

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55	Terpenoid Oligomers of Dammar Resin. <i>Journal of Natural Products</i> , 2016, 79, 845-856.	3.0	18
56	Aquazol as a binder for retouching paints. An evaluation through analytical pyrolysis and thermal analysis. <i>Polymer Degradation and Stability</i> , 2017, 144, 508-519.	5.8	17
57	Comicsâ€™ VOC-abulary: Study of the ageing of comic books in archival bags through VOCs profiling. <i>Polymer Degradation and Stability</i> , 2019, 161, 39-49.	5.8	17
58	Field-Emission Scanning Electron Microscopy and Energy-Dispersive X-Ray Analysis to Understand the Role of Tannin-Based Dyes in the Degradation of Historical Wool Textiles. <i>Microscopy and Microanalysis</i> , 2014, 20, 1534-1543.	0.4	16
59	Discovering "The Italian Flag" by Fernando Melani (1907-1985). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 168, 52-59.	3.9	16
60	Hetero-Bis-Conjugation of Bioactive Molecules to Half-Sandwich Ruthenium(II) and Iridium(III) Complexes Provides Synergic Effects in Cancer Cell Cytotoxicity. <i>Inorganic Chemistry</i> , 2021, 60, 9529-9541.	4.0	16
61	The analysis of the Saltzman Collection of Peruvian dyes by high performance liquid chromatography and ambient ionisation mass spectrometry. <i>Heritage Science</i> , 2019, 7, .	2.3	16
62	Oxidation pathways of natural dye hematoxylin in aqueous solution. <i>Collection of Czechoslovak Chemical Communications</i> , 2010, 75, 1097-1114.	1.0	15
63	GC/MS investigations of the total lipid fraction of wool: A new approach for modelling the ageing processes induced by iron-gallic dyestuffs on historical and archaeological textiles. <i>Microchemical Journal</i> , 2015, 118, 131-140.	4.5	15
64	The impact of mycorrhizal fungi on Sangiovese red wine production: Phenolic compounds and antioxidant properties. <i>LWT - Food Science and Technology</i> , 2016, 72, 310-316.	5.2	15
65	A Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Method for the Identification of Anthraquinones: the Case of Historical Lakes. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1824-1834.	2.8	15
66	Spectroscopic and mass spectrometric approach to define the Cyprus Orthodox icon tradition - The first known occurrence of Indian lac in Greece/Europe. <i>Microchemical Journal</i> , 2017, 131, 112-119.	4.5	15
67	60 years of street art: A comparative study of the artistsâ€™ materials through spectroscopic and mass spectrometric approaches. <i>Journal of Cultural Heritage</i> , 2021, 48, 129-140.	3.3	15
68	Two oxidation pathways of bioactive flavonol rhamnazin under ambient conditions. <i>Electrochimica Acta</i> , 2014, 133, 359-363.	5.2	14
69	Chemical investigations of bitumen from Neolithic archaeological excavations in Italy by GC/MS combined with principal component analysis. <i>Analytical Methods</i> , 2019, 11, 1449-1459.	2.7	14
70	SIFT-ing archaeological artifacts: Selected ion flow tube-mass spectrometry as a new tool in archaeometry. <i>Talanta</i> , 2020, 207, 120323.	5.5	14
71	New insights into the fading mechanism of Geranium lake in painting matrix. <i>Dyes and Pigments</i> , 2020, 181, 108600.	3.7	14
72	The issue of eosin fading: A combined spectroscopic and mass spectrometric approach applied to historical lakes. <i>Dyes and Pigments</i> , 2020, 180, 108436.	3.7	14

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73	Development and validation of a novel derivatization method for the determination of lactate in urine and saliva by liquid chromatography with UV and fluorescence detection. <i>Talanta</i> , 2014, 130, 280-287.	5.5	13
74	Micro-Raman and SER spectroscopy to unfold Lefranc's early organic pigment formulations. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1505-1513.	2.5	13
75	Sphingoid esters from the molecular distillation of squid oil: A preliminary bioactivity determination. <i>Food Chemistry</i> , 2016, 201, 23-28.	8.2	13
76	The oxidative decomposition of natural bioactive compound rhamnetin. <i>Journal of Electroanalytical Chemistry</i> , 2017, 788, 125-130.	3.8	13
77	Electrochemistry and Spectroelectrochemistry of Bioactive Hydroxyquinolines: A Mechanistic Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6074-6080.	2.6	11
78	Chemistry of modern paint media: The strained and collapsed painting by Alexis Harding. <i>Microchemical Journal</i> , 2020, 155, 104659.	4.5	11
79	The organic materials in the Five Northern Provinces' Assembly Hall: disclosing the painting technique of the Qing dynasty painters in civil buildings. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 879-889.	2.3	10
80	Identifying Brazilwood's Marker Component, Urolithin C, in Historical Textiles by Surface-Enhanced Raman Spectroscopy. <i>Heritage</i> , 2021, 4, 1415-1428.	1.9	10
81	The influence of the host-guest interaction on the oxidation of natural flavonoid dyes. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1651-1667.	1.0	9
82	Charred honeycombs discovered in Iron Age Northern Italy. A new light on boat beekeeping and bee pollination in pre-modern world. <i>Journal of Archaeological Science</i> , 2017, 83, 26-40.	2.4	9
83	An SERS analytical protocol for characterizing native Japanese plant extracts. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 892-902.	2.5	9
84	Development of a method based on high-performance liquid chromatography coupled with diode array, fluorescence, and mass spectrometric detectors for the analysis of eosin at trace levels. <i>Separation Science Plus</i> , 2020, 3, 207-215.	0.6	9
85	Liquid chromatography and mass spectrometry for the analysis of acylglycerols in art and archeology. <i>Mass Spectrometry Reviews</i> , 2021, 40, 381-407.	5.4	9
86	Investigating the fragmentation pathways of naphthol pigments using liquid chromatography/electrospray ionization quadrupole time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8789.	1.5	8
87	Investigating the in-solution photodegradation pathway of Diamond Green G by chromatography and mass spectrometry. <i>Coloration Technology</i> , 2021, 137, 456-467.	1.5	8
88	An integrated analytical study of crayons from the original art materials collection of the MUNCH museum in Oslo. <i>Scientific Reports</i> , 2021, 11, 7152.	3.3	8
89	Stability of chromogenic colour prints in polluted indoor environments. <i>Polymer Degradation and Stability</i> , 2010, 95, 2481-2485.	5.8	7
90	Reply to Evans: Use of poison remains the most parsimonious explanation for Border Cave castor bean extract. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3291-E3292.	7.1	7

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91	Direct analysis of anthraquinone dyed textiles by Surface Enhanced Raman Spectroscopy and Ag nanoparticles obtained by pulsed laser ablation. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	7
92	Profiling of high molecular weight esters by flow injection analysis-high resolution mass spectrometry for the characterization of raw and archaeological beeswax and resinous substances. <i>Talanta</i> , 2020, 212, 120800.	5.5	7
93	Trends in High Performance Liquid Chromatography for Cultural Heritage. <i>Topics in Current Chemistry Collections</i> , 2017, , 263-290.	0.5	7
94	Archaeology of the invisible: The scent of Kha and Merit. <i>Journal of Archaeological Science</i> , 2022, 141, 105577.	2.4	7
95	Characterization of textile fibers by means of EGA-MS and Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, , 105570.	5.5	7
96	First evidence of purple pigment production and dyeing in southern Arabia (Sumhram, Sultanate of) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> 2016, 19, 486-491.	3.3	6
97	The ancient use of colouring on the marble statues of Hierapolis of Phrygia (Turkey): an integrated multi-analytical approach. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 1611-1619.	1.8	6
98	Tethering Carbohydrates to the Vinyliminium Ligand of Antiproliferative Organometallic Diiron Complexes. <i>Organometallics</i> , 2022, 41, 514-526.	2.3	6
99	Olive mill wastewaters: quantitation of the phenolic content and profiling of elenolic acid derivatives using HPLC-DAD and HPLC/MS2 with an embedded polar group stationary phase. <i>Natural Product Research</i> , 2019, 33, 3171-3175.	1.8	5
100	Colourants on the wall paintings of a mediÓval fortress at the mount Sofeh in Isfahan, central Iran. <i>Journal of Archaeological Science: Reports</i> , 2020, 29, 102065.	0.5	5
101	The â€to be or not to beâ€™™ of archaeological enquiry. <i>Antiquity</i> , 2016, 90, 1079-1082.	1.0	4
102	On the Set of Felliniâ€™™s Movies: Investigating and Preserving Multi-Material Stage Costumes Exploiting Spectroscopic and Mass Spectrometric Techniques. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2954.	2.5	4
103	Textiles and environment in the showcase containing Saint Canute the Holy (â€ AD 1086): Radiocarbon dating and chemical interactions. <i>Heritage Science</i> , 2020, 8, .	2.3	4
104	A Strategy for the Study of the Interactions between Metalâ€™™Dyes and Proteins with QM/MM Approaches: the Case of Ironâ€™™Gall Dye. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13344-13352.	2.6	3
105	Application of spectroelectrochemistry in elucidation of electrochemical mechanism of azoquinoline dye 2-methyl-5-[(E)-phenyldiazenyl]quinolin-8-ol. <i>Electrochimica Acta</i> , 2018, 270, 509-516.	5.2	3
106	The identification of fish oils in 20th century paints and paintings. <i>Journal of Cultural Heritage</i> , 2021, 50, 49-60.	3.3	3
107	Textile Dyes from Gokstad Viking Shipâ€™™s Grave. <i>Heritage</i> , 2021, 4, 2278-2286.	1.9	3
108	Disclosing the thermal reactions of aliphatic amines in the presence of TiO2 nanoparticles by multi-shot analytical pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 159, 105284.	5.5	3

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109	Comparison between Fermentation and Ultrasound-Assisted Extraction: Which Is the Most Efficient Method to Obtain Antioxidant Polyphenols from Sambucus nigra and Punica granatum Fruits?. Horticulturae, 2021, 7, 386.	2.8	3
110	IR spectroelectrochemistry as efficient technique for elucidation of reduction mechanism of chlorine substituted 1,10-phenanthrolines. Journal of Electroanalytical Chemistry, 2020, 859, 113888.	3.8	2
111	The effects of 4,7-di(pyrrolidin-1-yl) substituents on the reduction and oxidation mechanisms of 1,10-phenanthrolines: New perspectives in tailoring of phenanthroline derivatives. Electrochimica Acta, 2021, 370, 137674.	5.2	2
112	Spectroelectrochemical Properties of 1,10-Phenanthroline Substituted by Phenothiazine and Carbazole Redox-Active Units. ChemElectroChem, 2021, 8, 2935-2943.	3.4	2
113	Focusing on Volatile Organic Compounds of Natural Resins by Selected-Ion Flow Tube-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 0, , .	2.8	2
114	On the Authenticity of a Relic: An Archaeometric Investigation of the Supposed Bread Sack of Saint Francesco of Assisi. Radiocarbon, 2017, 59, 1425-1433.	1.8	1
115	Liquid chromatography: Current applications in Heritage Science and recent developments. Physical Sciences Reviews, 2019, 4, .	0.8	1
116	Electrochemistry Investigation of Drugs Encapsulated in Cyclodextrins. Methods in Molecular Biology, 2021, 2207, 285-298.	0.9	1
117	Defining multiple inhabitations of a cave environment using interdisciplinary archaeometry: the "Christmas Cave"™ of the Wadi en-Nar/Nahal Qidron, West of the Dead Sea. Heritage Science, 2022, 10, .	2.3	1
118	Anwendung der analytischen Pyrolyse zur Untersuchung organischer Materialien in Kulturgütern. Angewandte Chemie, 2018, 130, 7435-7446.	2.0	0
119	9. Liquid chromatography: Current applications in Heritage Science and recent developments. , 2020, , 205-226.		0
120	Correction to: The analysis of the Saltzman Collection of Peruvian dyes by high performance liquid chromatography and ambient ionisation mass spectrometry. Heritage Science, 2020, 8, .	2.3	0