Simona Raneri

List of Publications by Year in descending order

57 papers	**658** citations
567144 **15** h-index	677027 **22** g-index
59 all docs	**59** docs citations
59 times ranked	**684** citing authors

#	Article	IF	Citations
1	Microtextural and microstructural influence on the changes of physical and mechanical proprieties related to salts crystallization weathering in natural building stones. The example of Sabucina stone (Sicily). Construction and Building Materials, 2015, 95, 355-365.	3.2	44
2	Fast quantitative elemental mapping of highly inhomogeneous materials by micro-Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 146, 9-15.	1.5	36
3	Nondestructive investigation on the 17â€18th centuries Sicilian jewelry collection at the Messina regional museum using mobile Raman equipment. Journal of Raman Spectroscopy, 2015, 46, 989-995.	1.2	33
4	Characterization of emeralds by microâ€Raman spectroscopy. Journal of Raman Spectroscopy, 2014, 45, 1293-1300.	1.2	32
5	Interaction of a viscous biopolymer from cactus extract with cement paste to produce sustainable concrete. Construction and Building Materials, 2020, 257, 119585.	3.2	30
6	Nanocrystalline TiO2 coatings by solâ€"gel: photocatalytic activity on Pietra di Noto biocalcarenite. Journal of Sol-Gel Science and Technology, 2015, 75, 141-151.	1.1	28
7	A portableÂ<i>versus</i> microâ€Raman equipment comparison for gemmological purposes: the case of sapphires and their imitations. Journal of Raman Spectroscopy, 2014, 45, 1309-1317.	1.2	27
8	Artificial neural network for the provenance study of archaeological ceramics using clay sediment database. Journal of Cultural Heritage, 2019, 38, 147-157.	1.5	25
9	Archaeometric study of mortars from the Pisaâ€™s Cathedral Square (Italy). Measurement: Journal of the International Measurement Confederation, 2018, 126, 322-331.	2.5	24
10	A multi-technique approach for the determination of the porous structure of building stone. European Journal of Mineralogy, 2014, 26, 189-198.	0.4	23
11	Mineralogical, petrographic and physical-mechanical study of Roman construction materials from the Maritime Theatre of Hadrian's Villa (Rome, Italy). Measurement: Journal of the International Measurement Confederation, 2018, 127, 264-276.	2.5	23
12	Laser-Induced Breakdown Spectroscopy for Determination of Spectral Fundamental Parameters. Applied Sciences (Switzerland), 2020, 10, 4973.	1.3	21
13	Red gemstone characterization by microâ€Raman spectroscopy: the case of rubies and their imitations. Journal of Raman Spectroscopy, 2016, 47, 1534-1539.	1.2	18
14	Raman Investigation of Precious Jewelry Collections Preserved in Paolo Orsi Regional Museum (Siracusa, Sicily) Using Portable Equipment. Applied Spectroscopy, 2016, 70, 1420-1431.	1.2	18
15	Nondestructive Raman investigation on wall paintings at Sala Vaccarini in Catania (Sicily). Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	16
16	A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. Journal of Raman Spectroscopy, 2020, 51, 1822-1838.	1.2	16
17	Laser-Induced Breakdown Spectroscopy analysis of the limestone Nuragic statues from Mont'e Prama site (Sardinia, Italy). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 149, 62-70.	1.5	15
18	Improvement of the performances of a commercial hand-held laser-induced breakdown spectroscopy instrument for steel analysis using multiple artificial neural networks. Review of Scientific Instruments, 2020, 91, 073111.	0.6	13

#	Article	IF	Citations
19	Efficiency assessment of hybrid coatings for natural building stones: Advanced and multi-scale laboratory investigation. Construction and Building Materials, 2018, 180, 412-424.	3.2	12
20	X-ray computed micro-tomography to study the porous structure and degradation processes of a building stone from Sabucina (Sicily). European Journal of Mineralogy, 2015, 27, 279-288.	0.4	11
21	Color and painting techniques in Etruscan architectural slabs. Dyes and Pigments, 2019, 171, 107766.	2.0	10
22	Neutron radiography for the characterization of porous structure in degraded building stones. Journal of Instrumentation, 2014, 9, C05024-C05024.	0.5	9
23	The archaeological site of St. Maria Veterana (Triggiano, Southern Italy): Archaeometric study of the wall paintings for the historical reconstruction. Journal of Archaeological Science: Reports, 2020, 29, 102080.	0.2	9
24	Determination of the Stark broadening coefficients of tantalum emission lines by time-independent Extended C-sigma method. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 167, 105829.	1.5	9
25	Portable XRF: A Tool for the Study of Corundum Gems. Open Archaeology, 2017, 3, .	0.3	8
26	Pigments characterization of polychrome vases production at Lipára: New insights by noninvasive spectroscopic methods. X-Ray Spectrometry, 2018, 47, 46-57.	0.9	8
27	Electrokinetic Characterization of Natural Stones Coated with Nanocomposites for the Protection of Cultural Heritage. Applied Sciences (Switzerland), 2018, 8, 1694.	1.3	8
28	Inspecting adhesion and cohesion of protectives and consolidants in sandstones of architectural heritage by X-ray microscopy methods. Materials Characterization, 2019, 156, 109853.	1.9	8
29	Graph clustering and portable X-Ray Fluorescence: An application for in situ, fast and preliminary classification of transport amphoras. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 172, 105966.	1.5	8
30	Synchrotron µ-XRF imaging and µ-XANES of black-glazed wares at the PUMA beamline: Insights on technological markers for colonial productions. Microchemical Journal, 2020, 154, 104629.	2.3	8
31	Indian Ocean trade connections: characterization and commercial routes of torpedo jars. Heritage Science, 2020, 8, .	1.0	8
32	Response of Organic Lime Mortars to Thermal and Electrical Shocks Due to Lightning Strikes. Sustainability, 2020, 12, 7181.	1.6	7
33	Comparison of Convolutional and Conventional Artificial Neural Networks for Laser-Induced Breakdown Spectroscopy Quantitative Analysis. Applied Spectroscopy, 2022, 76, 959-966.	1.2	7
34	A multi-technique approach for the characterization of decorative stones and non-destructive method for the discrimination of similar rocks. X-Ray Spectrometry, 2014, 43, 83-92.	0.9	6
35	^{13}C Solid State Nuclear Magnetic Resonance and µ-Raman Spectroscopic Characterization of Sicilian Amber. Applied Spectroscopy, 2016, 70, 1346-1355.	1.2	6
36	Visualization and quantification of weathering effects on capillary water uptake of natural building stones by using neutron imaging. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6

#	Article	IF	Citations
37	Increasing resolution in chemical mapping of geomaterials: From X-ray fluorescence to laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 194, 106482.	1.5	6
38	Neutron Radiography Study of Laboratory Ageing and Treatment Applications with Stone Consolidants. Nanomaterials, 2019, 9, 635.	1.9	5
39	Chemical and mineralogical analyses on stones from Sagunto Castle (Spain). Journal of Archaeological Science: Reports, 2019, 24, 931-938.	0.2	5
40	Evaluating the Impact of Organic Addition and Aggregate Gradation on Air Lime Mortar: New Compatible Green Material for Heritage Application. International Journal of Architectural Heritage, 2022, 16, 681-691.	1.7	5
41	About the use of inverse calibration in laser-induced breakdown spectroscopy quantitative analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 170, 105917.	1.5	5
42	Multi-scale laboratory routine in the efficacy assessment of conservative products for natural stones. MethodsX, 2018, 5, 1095-1101.	0.7	4
43	Exploring the Coroplasts' â€˜<i>Techne</i>â€™ in Greek Architectural Terracottas from Sicily: an Archaeometric Approach. Archaeometry, 2018, 60, 986-1001.	0.6	4
44	Raman spectroscopy as a tool for provenancing black limestones (bigi morati) used in antiquity. Journal of Raman Spectroscopy, 2021, 52, 241-250.	1.2	4
45	Determination of Spectroscopic Parameters of Ag(I) and Ag(II) Emission Lines Using Time-Independent Extended C-Sigma Method. Applied Spectroscopy, 2021, 75, 654-660.	1.2	4
46	Petro-archaeometric characterization of potteries from a kiln in Adrano, Sicily. Heritage Science, 2015, 3, .	1.0	3
47	Neighbourly ties: Characterizing local and Sicilian pottery in post-medieval Malta. Journal of Archaeological Science: Reports, 2018, 19, 575-587.	0.2	3
48	Social and technological changes in the ceramic production of the Northern Levant during the LBA/IA transition: New evidence about the Sea People issue through archaeometry. Journal of Anthropological Archaeology, 2019, 56, 101087.	0.7	3
49	Synchrotron X-ray Microprobes: An Application on Ancient Ceramics. Applied Sciences (Switzerland), 2021, 11, 8052.	1.3	3
50	Pottery production and trades in Tamil Nadu region: new insights from Alagankulam and Keeladi excavation sites. Heritage Science, 2020, 8, .	1.0	3
51	Measuring Weathering and Nanoparticle Coating Impact on Surface Roughness of Natural Stones. Studies in Conservation, 2019, 64, 298-309.	0.6	2
52	Material Characterisation for Preserving Cultural Heritage: Evidence of the 1595 Fire at Pisa Cathedral. Studies in Conservation, 2022, 67, 400-412.	0.6	2
53	Archeometric investigation on wall paintings from the most ancient Hellenistic hypogeum found in Sicily (C.da Apaforte-Licata (AG)). Rendiconti Lincei, 2015, 26, 475-483.	1.0	1
54	Microâ€Raman spectroscopy to investigate production techniques: A focus on fine ware potteries. Journal of Raman Spectroscopy, 2021, 52, 199-207.	1.2	1

#	Article	IF	Citations
55	Ceramic technology and paintings of archaic architectural slabs, <i>louteria</i> and antefixes from the Palatine Hill in Rome (Italy). Archaeometry, 2022, 64, 118-133.	0.6	1
56	Digital image analysis on cathodoluminescence microscopy images for ancient ceramic classification: methods, applications, and perspectives. European Physical Journal Plus, 2022, 137, .	1.2	1
57	Visualization and quantification of weathering effects on capillary water uptake of natural building stones by using neutron imaging. , 2017, , 151-159.		0