

Monica Álvarez De Buergo

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,549
citations

331670

21
h-index

315739

38
g-index

62
all docs

62
docs citations

62
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of relative humidity on the carbonation of calcium hydroxide nanoparticles and the formation of calcium carbonate polymorphs. <i>Powder Technology</i> , 2011, 205, 263-269.	4.2	165
2	Influence of porosity and relative humidity on consolidation of dolostone with calcium hydroxide nanoparticles: Effectiveness assessment with non-destructive techniques. <i>Materials Characterization</i> , 2010, 61, 168-184.	4.4	120
3	Nano-TiO ₂ coatings for cultural heritage protection: The role of the binder on hydrophobic and self-cleaning efficacy. <i>Progress in Organic Coatings</i> , 2016, 91, 1-8.	3.9	108
4	Non-destructive testing for the assessment of granite decay in heritage structures compared to quarry stone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 61, 296-305.	5.8	71
5	Natural cement as the precursor of Portland cement: Methodology for its identification. <i>Cement and Concrete Research</i> , 2005, 35, 2055-2065.	11.0	68
6	Characterizing the Microbial Colonization of a Dolostone Quarry: Implications for Stone Biodeterioration and Response to Biocide Treatments. <i>Microbial Ecology</i> , 2011, 62, 299-313.	2.8	68
7	Determination of anisotropy to enhance the durability of natural stone. <i>Journal of Geophysics and Engineering</i> , 2011, 8, S132-S144.	1.4	63
8	Soluble salt minerals from pigeon droppings as potential contributors to the decay of stone based Cultural Heritage. <i>European Journal of Mineralogy</i> , 2004, 16, 505-509.	1.3	55
9	Structural stability of a colloidal solution of Ca(OH) ₂ nanocrystals exposed to high relative humidity conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1249-1254.	2.3	50
10	Artificial weathering of Spanish granites subjected to salt crystallization tests: Surface roughness quantification. <i>Catena</i> , 2010, 83, 170-185.	5.0	49
11	Evolution in the use of natural building stone in Madrid, Spain. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2013, 46, 421-429.	1.4	46
12	Protective patinas applied on stony façades of historical buildings in the past. <i>Construction and Building Materials</i> , 2003, 17, 83-89.	7.2	41
13	Atomic Defects and Their Relationship to Aragonite→Calcite Transformation in Portlandite Nanocrystal Carbonation. <i>Crystal Growth and Design</i> , 2012, 12, 4844-4852.	3.0	39
14	Characterization of patinas by means of microscopic techniques. <i>Materials Characterization</i> , 2007, 58, 1119-1132.	4.4	38
15	Characterisation of monzogranitic batholiths as a supply source for heritage construction in the northwest of Madrid. <i>Engineering Geology</i> , 2010, 115, 149-157.	6.3	31
16	The conservation state of the Sassi of Matera site (Southern Italy) and its correlation with the environmental conditions analysed through spatial analysis techniques. <i>Journal of Cultural Heritage</i> , 2016, 17, 61-74.	3.3	29
17	The measurement of surface roughness to determine the suitability of different methods for stone cleaning. <i>Journal of Geophysics and Engineering</i> , 2012, 9, S108-S117.	1.4	28
18	Influencia de la anisotropía en la durabilidad de las dolomas Cretácicas de la Comunidad de Madrid frente a la cristalización de sales. <i>Materiales De Construccion</i> , 2008, 58, 161-178.	0.7	27

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19	Possibilities of monitoring the polymerization process of silicon-based water repellents and consolidants in stones through infrared and Raman spectroscopy. <i>Progress in Organic Coatings</i> , 2008, 63, 5-12.	3.9	26
20	Biodeterioration of marble in an underwater environment. <i>Science of the Total Environment</i> , 2017, 609, 109-122.	8.0	26
21	An urban geomonumental route focusing on the petrological and decay features of traditional building stones used in Madrid, Spain. <i>Environmental Earth Sciences</i> , 2013, 69, 1071-1084.	2.7	25
22	Laser removal of water repellent treatments on limestone. <i>Applied Surface Science</i> , 2003, 219, 290-299.	6.1	22
23	Multi-analytical approach applied to the provenance study of marbles used as covering slabs in the archaeological submerged site of Baia (Naples, Italy): The case of the "Villa con ingresso a protiro". <i>Applied Surface Science</i> , 2015, 357, 1369-1379.	6.1	21
24	Stone decay in 18th century monuments due to iron corrosion. <i>The Royal Palace, Madrid (Spain). Building and Environment</i> , 2004, 39, 357-364.	6.9	20
25	Laser-induced fluorescence and FT-Raman spectroscopy for characterizing patinas on stone substrates. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1433-1441.	3.7	18
26	Assessment of Different Methods for Cleaning the Limestone Façades of the Former Workers Hospital of Madrid, Spain. <i>Studies in Conservation</i> , 2011, 56, 298-313.	1.1	17
27	Archaeological ceramic amphorae from underwater marine environments: Influence of firing temperature on salt crystallization decay. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2031-2042.	5.7	17
28	The environmental impact of air pollution on the built heritage of historic Cairo (Egypt). <i>Science of the Total Environment</i> , 2021, 764, 142905.	8.0	17
29	Contributions of scanning electron microscopy to the assessment of the effectiveness of stone conservation treatments. <i>Scanning</i> , 2004, 26, 41-47.	1.5	16
30	Decay of the restoration render mortar of the church of San Manuel and San Benito, Madrid, Spain: Results from optical and electron microscopy. <i>Materials Characterization</i> , 2008, 59, 1531-1540.	4.4	16
31	Dating fires and estimating the temperature attained on stone surfaces. The case of Ciudad de Vascos (Spain). <i>Microchemical Journal</i> , 2016, 127, 247-255.	4.5	16
32	The Influence of Past Protective Treatments on the Deterioration of Historic Stone Façades A Case Study. <i>Studies in Conservation</i> , 2007, 52, 110-124.	1.1	14
33	The use of a portable energy dispersive x-ray fluorescence spectrometer for the characterization of patinas from the architectural heritage of the Iberian peninsula. <i>X-Ray Spectrometry</i> , 2008, 37, 399-409.	1.4	13
34	Colmenar Limestone, Madrid, Spain: considerations for its nomination as a Global Heritage Stone Resource due to its long term durability. <i>Geological Society Special Publication</i> , 2015, 407, 121-135.	1.3	13
35	Black Layers of Decay and Color Patterns on Heritage Limestone as Markers of Environmental Change. <i>Geosciences (Switzerland)</i> , 2016, 6, 4.	2.2	13
36	Effect of manufacturing methods on the decay of ceramic materials: A case study of bricks in modern architecture of Madrid (Spain). <i>Applied Clay Science</i> , 2017, 135, 136-149.	5.2	13

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37	The Use of Portable Raman Spectroscopy to Identify Conservation Treatments Applied to Heritage Stone. <i>Spectroscopy Letters</i> , 2012, 45, 146-150.	1.0	12
38	Characterization of concrete from Roman buildings for public spectacles in Emerita Augusta (MÁrida,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	11
39	Definition of analytical cleaning procedures for archaeological pottery from underwater environments: The case study of samples from Baia (Naples, South Italy). <i>Materials and Design</i> , 2021, 197, 109278.	7.0	10
40	Contribution of analytical techniques to determine the technologies used in the ceramic materials from the Former Workers Hospital of Maudes, Madrid (Spain). <i>Journal of the European Ceramic Society</i> , 2013, 33, 479-491.	5.7	9
41	Effects of potassium ferrocyanide used for desalination on lime composite performances in different curing regimes. <i>Construction and Building Materials</i> , 2020, 259, 120409.	7.2	9
42	Addition of ferrocyanide-based compounds to repairing joint lime mortars as a protective method for porous building materials against sodium chloride damage. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	9
43	EvaluaciÃ³n del tratamiento de consolidaciÃ³n de dolomÃ³as mediante nanopartÃ­culas de hidrÃ³xido de calcio en condiciones de alta humedad relativa. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2011, 50, 85-92.	1.9	9
44	Overview of recent knowledge of patinas on stone monuments: the Spanish experience. <i>Geological Society Special Publication</i> , 2007, 271, 295-307.	1.3	8
45	The origin and development of natural cements: The Spanish experience. <i>Construction and Building Materials</i> , 2007, 21, 436-445.	7.2	7
46	Evaluation of Portable Raman for the Characterization of Salt Efflorescences at Petra, Jordan. <i>Spectroscopy Letters</i> , 2011, 44, 505-510.	1.0	7
47	Assessment of protection treatments for carbonatic stone using nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2020, 141, 105515.	3.9	7
48	Effects of Conservation Interventions on the Archaeological Roman Site of Merida (Spain). <i>Advance of Research. Procedia Chemistry</i> , 2013, 8, 269-278.	0.7	5
49	Thermal Stresses. , 2006, , 427-437.		5
50	Polygonal cracking in granite and considerations for a morphological classification (La Pedriza de) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	4
51	Provenance analysis of the granitic ashlars used in the construction of the Roman theatre in Emerita Augusta (Merida, Spain). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	4
52	Los ladrillos del recinto amurallado de Talamanca de Jarama, Madrid: criterios para su diferenciaciÃ³n. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2007, 46, 145-152.	1.9	4
53	Detection of calcium phosphates in calcium oxalate patinas. <i>European Journal of Mineralogy</i> , 2012, 24, 1031-1045.	1.3	3
54	Efficacy of acid treatments used in archaeological ceramics for the removal of calcareous deposits. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	3

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55	Limestone on the "Don Pedro I" facade in the Real Alcázar compound, Seville, Spain. Geological Society Special Publication, 2010, 331, 171-182.	1.3	2
56	Cultural heritage and civil engineering. Journal of Geophysics and Engineering, 2012, 9, .	1.4	1
57	Petrophysical-mechanical behavior of Grisolia stone found in the architectural heritage of southern Italy. Materiales De Construccion, 2019, 69, 188.	0.7	1
58	Safety issues in cultural heritage management and critical infrastructures management. Journal of Geophysics and Engineering, 2013, 10, 060201.	1.4	0
59	Ultrasonic Analysis of the Spanish Cultural Heritage: Six Case Studies. Geotechnologies and the Environment, 2017, , 469-484.	0.3	0
60	Evaluation of Multi-Functional Silica-Based Nano-Products for Consolidating and Protecting Stone Material from Archaeological Sites. Solid State Phenomena, 2019, 286, 95-104.	0.3	0
61	Analytical characterisation of the granitic rocks used in the vomitoria of the Roman amphitheatre in Emerita Augusta. Rendiconti Lincei, 2022, 33, 57-70.	2.2	0