

Adrian Duran

List of Publications by Year in descending order

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75
papers

1,877
citations

218677

26
h-index

289244

40
g-index

75
all docs

75
docs citations

75
times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of nanosilica and a polycarboxylate ether superplasticizer on the performance of lime mortars. <i>Cement and Concrete Research</i> , 2013, 43, 12-24.	11.0	115
2	Comparison between micro-Raman and micro-FTIR spectroscopy techniques for the characterization of pigments from Southern Spain Cultural Heritage. <i>Journal of Molecular Structure</i> , 2009, 924-926, 404-412.	3.6	114
3	Preparation of submicron talc particles by sonication. <i>Applied Clay Science</i> , 2005, 28, 245-255.	5.2	84
4	Solidification/stabilization of toxic metals in calcium aluminate cement matrices. <i>Journal of Hazardous Materials</i> , 2013, 260, 89-103.	12.4	78
5	DETERMINATION OF PIGMENTS AND BINDERS IN POMPEIAN WALL PAINTINGS USING SYNCHROTRON RADIATION "HIGH-RESOLUTION X-RAY POWDER DIFFRACTION AND CONVENTIONAL SPECTROSCOPY" CHROMATOGRAPHY. <i>Archaeometry</i> , 2010, 52, 286-307.	1.3	77
6	Assessment of the interaction of polycarboxylate superplasticizers in hydrated lime pastes modified with nanosilica or metakaolin as pozzolanic reactives. <i>Construction and Building Materials</i> , 2014, 73, 1-12.	7.2	58
7	First use of portable system coupling X-ray diffraction and X-ray fluorescence for in-situ analysis of prehistoric rock art. <i>Talanta</i> , 2014, 129, 459-464.	5.5	55
8	XRF, μ -XRD and μ -spectroscopic techniques for revealing the composition and structure of paint layers on polychrome sculptures after multiple restorations. <i>Talanta</i> , 2012, 89, 462-469.	5.5	48
9	Long-term mechanical resistance and durability of air lime mortars with large additions of nanosilica. <i>Construction and Building Materials</i> , 2014, 58, 147-158.	7.2	48
10	Characterization of illuminated manuscripts by laboratory-made portable XRD and micro-XRD systems. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1997-2004.	3.7	47
11	Analytical study of Roman and Arabic wall paintings in the Patio De Banderas of Reales Alcazares TM Palace using non-destructive XRD/XRF and complementary techniques. <i>Journal of Archaeological Science</i> , 2011, 38, 2366-2377.	2.4	44
12	Microstructural consequences of nanosilica addition on aerial lime binding materials: Influence of different drying conditions. <i>Materials Characterization</i> , 2013, 80, 36-49.	4.4	42
13	An innovative combination of non-invasive UV-Visible-FORS, XRD and XRF techniques to study Roman wall paintings from Seville, Spain. <i>Journal of Cultural Heritage</i> , 2016, 22, 1028-1039.	3.3	40
14	The influence of ultrasound on the thermal behaviour of clay minerals. <i>Journal of the European Ceramic Society</i> , 2006, 26, 747-753.	5.7	38
15	Forgery detection on an Arabic illuminated manuscript by micro-Raman and X-ray fluorescence spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 48-55.	2.5	38
16	Study of the early hydration of calcium aluminates in the presence of different metallic salts. <i>Cement and Concrete Research</i> , 2016, 81, 1-15.	11.0	38
17	X-ray diffraction studies of Pompeian wall paintings using synchrotron radiation and dedicated laboratory made systems. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 333-340.	2.3	36
18	Non-destructive and in situ analysis of Egyptian wall paintings by X-ray diffraction and X-ray fluorescence portable systems. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 671-681.	2.3	35

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19	A thermal study approach to roman age wall painting mortars. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 803-809.	3.6	34
20	Wall paintings studied using Raman spectroscopy: A comparative study between various assays of cross sections and external layers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 120, 602-609.	3.9	33
21	Study on the effectiveness of PNS and LS superplasticizers in air lime-based mortars. <i>Cement and Concrete Research</i> , 2016, 82, 11-22.	11.0	33
22	New trends in physicochemical characterization of solid lignocellulosic waste in anaerobic digestion. <i>Fuel</i> , 2019, 245, 240-246.	6.4	30
23	Murillo's paintings revealed by spectroscopic techniques and dedicated laboratory-made micro X-ray diffraction. <i>Analytica Chimica Acta</i> , 2010, 671, 1-8.	5.4	29
24	Thermal analysis of monument patina containing hydrated calcium oxalates. <i>Thermochimica Acta</i> , 2011, 512, 5-12.	2.7	29
25	Analysis of a royal 15th century illuminated parchment using a portable XRF-XRD system and micro-invasive techniques. <i>Journal of Archaeological Science</i> , 2014, 45, 52-58.	2.4	29
26	A portable X-ray diffraction apparatus for in situ analyses of masters' paintings. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 577-584.	2.3	27
27	A novel use of calcium aluminate cements for recycling waste foundry sand (WFS). <i>Construction and Building Materials</i> , 2013, 48, 218-228.	7.2	27
28	Roman ceramics of hydraulic mortars used to build the Mithraeum house of Córdoba (Spain). <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 331-335.	3.6	26
29	Degradation of gold and false golds used as gildings in the cultural heritage of Andalusia, Spain. <i>Journal of Cultural Heritage</i> , 2008, 9, 184-188.	3.3	25
30	Study of the gilding technique used in polychromed stones and ceramics by dedicated laboratory-made micro X-ray diffraction and complementary techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1671-1677.	3.7	25
31	Quantitative X-ray fluorescence analysis of an Egyptian faience pendant and comparison with PIXE. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2219-2225.	3.7	25
32	Color study of Mudejar paintings of the pond found in the palace of Reales Alcazares in Seville. <i>Color Research and Application</i> , 2007, 32, 489-495.	1.6	24
33	Characterization of iron oxide-based pigments by synchrotron-based micro X-ray diffraction. <i>Applied Clay Science</i> , 2008, 42, 57-62.	5.2	23
34	Compositional and Quantitative Microtextural Characterization of Historic Paintings by Micro-X-ray Diffraction and Raman Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 8420-8428.	6.5	23
35	Influence of Two Polymer-Based Superplasticizers (Poly-naphthalene Sulfonate, PNS, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Resistance of Lime-Metakaolin Grouts. <i>Polymers</i> , 2018, 10, 824.	4.5	23
36	Non-destructive analysis of cultural heritage artefacts from Andalusia, Spain, by X-ray diffraction with Gobel mirrors. <i>Talanta</i> , 2008, 76, 183-188.	5.5	20

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37	Natural Earth Pigments From Roman and Arabic Wall Paintings Revealed by Spectroscopic Techniques. <i>Spectroscopy Letters</i> , 2011, 44, 560-565.	1.0	20
38	Identification of cellulose fibres belonging to Spanish cultural heritage using synchrotron high resolution X-ray diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 391-398.	2.3	19
39	Hydraulic structures of the Roman Mithraeum house in Augusta emerita, Spain. <i>Journal of Archaeological Science</i> , 2010, 37, 2426-2432.	2.4	19
40	Advanced combined application of λ -X-ray diffraction/ λ -X-ray fluorescence with conventional techniques for the identification of pictorial materials from Baroque Andalusia paintings. <i>Talanta</i> , 2009, 80, 71-83.	5.5	18
41	Ceramics from the Alcazar Palace in Seville (Spain) dated between the 11th and 15th centuries: Compositions, technological features and degradation processes. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4307-4319.	5.7	18
42	Preparation of nano-pyrophyllite: Comparative study of sonication and grinding. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1225-1229.	4.0	16
43	Study by thermal analysis of mortars belonging to wall paintings corresponding to some historical buildings of Sevillian art. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 353-359.	3.6	16
44	Study of the Dehydroxylation/Rehydroxylation of Pyrophyllite. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2392-2398.	3.8	16
45	Materials Characteristics of Roman and Arabic Mortars and Stuccoes from the <i>Patio De Banderas</i> in the Real Alcazar of Seville (Spain). <i>Archaeometry</i> , 2014, 56, 541-561.	1.3	16
46	Treatment of toxic metal aqueous solutions: Encapsulation in a phosphate-calcium aluminate matrix. <i>Journal of Environmental Management</i> , 2014, 140, 1-13.	7.8	16
47	Effect of interlayer cations on high-temperature phases of vermiculite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 84, 147-155.	3.6	15
48	Non-invasive analytical techniques applied to characterize the components of ancient golden medallions. <i>Heritage Science</i> , 2013, 1, 4.	2.3	14
49	Gildings from Andalusia: Materials used in different types of artworks along centuries. <i>Journal of Cultural Heritage</i> , 2018, 31, 112-121.	3.3	14
50	Mineralogical Characterization of the Polychrome in Cultural Heritage Artifacts (Antiquity to Date) from Southern Spain Using Micro-Raman Spectroscopy and Complementary Techniques. <i>Spectroscopy Letters</i> , 2014, 47, 223-237.	1.0	13
51	Studies of deterioration of the tin-mercury alloy within ancient Spanish mirrors. <i>Journal of Cultural Heritage</i> , 2008, 9, e41-e46.	3.3	12
52	Microscopic and spectroscopic techniques for the study of paper supports and textile used in the binding of hispano-arabic manuscripts from Al-Andalus: A transition model in the 15th century. <i>Journal of Cultural Heritage</i> , 2010, 11, 50-58.	3.3	12
53	Degradation of Two Historic Buildings in Northern Spain by Formation of Oxalate and Sulphate-Based Compounds. <i>International Journal of Architectural Heritage</i> , 2012, 6, 342-358.	3.1	11
54	Thermal study of unaltered and altered dolomitic rock samples from ancient monuments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 467-474.	3.6	9

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55	A Study about Colourants in the Arabic Manuscript Collection of the Sacromonte Abbey, Granada, Spain. A New Methodology for Chemical Analysis. <i>Restaurator</i> , 2008, 29, .	0.2	8
56	Estudio t�cnico de la decoraci3n del techo perteneciente a la Sala Capitular del Ayuntamiento de Sevilla. <i>Materiales De Construccion</i> , 2010, 60, 83-95.	0.7	8
57	Study by grazing incident diffraction and surface spectroscopy of amalgams from ancient mirrors. <i>Open Chemistry</i> , 2009, 7, 47-53.	1.9	7
58	Study of the thermal decomposition of historical metal threads. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 15-22.	3.6	7
59	Degradation processes of historic metal threads used in some Spanish and Portuguese ornamentation pieces. <i>Journal of Cultural Heritage</i> , 2019, 36, 135-142.	3.3	7
60	Hg/Sn amalgam degradation of ancient glass mirrors. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1980-1983.	3.1	5
61	Old and Modern Pigments Identification from a 14th Century Sculpture by Micro-Raman. <i>Spectroscopy Letters</i> , 2011, 44, 464-468.	1.0	5
62	A safer disposal of hazardous phosphate coating sludge by formation of an amorphous calcium phosphate matrix. <i>Journal of Environmental Management</i> , 2015, 159, 288-300.	7.8	5
63	Revealing Andalusian wall paintings from the 15th century by mainly using infrared spectroscopy and colorimetry. <i>Vibrational Spectroscopy</i> , 2020, 111, 103153.	2.2	4
64	TG, DTA and X-ray thermodiffraction study of wall paintings from the fifteenth century. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3257-3265.	3.6	4
65	Mineralogical Characterization of Carreaux de Pavement from Northern Spain (Tiebas, Navarre). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 153.	2.0	4
66	Antitumoural Sulphur and Selenium Heteroaryl Compounds: Thermal Characterization and Stability Evaluation. <i>Molecules</i> , 2017, 22, 1314.	3.8	3
67	Spanish and Portuguese Gilding Threads: Characterization Using Microscopic Techniques. <i>Microscopy and Microanalysis</i> , 2018, 24, 574-590.	0.4	3
68	Laboratory multi-technique study of Spanish decorated leather from the 12th to 14th centuries. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 331-341.	3.9	2
69	Study of degradation processes of metals used in some artworks from the cultural heritage of Andalusia, Spain. <i>Revista De Metalurgia</i> , 2009, 45, 277-286.	0.5	2
70	Deterioro de aleaciones de cobre por acci3n humana. <i>Revista De Metalurgia</i> , 2008, 44, .	0.5	2
71	Solvent-Free Formation of Cyclodextrin-Based Pseudopolyrotaxanes of Polyethylene Glycol: Kinetic and Structural Aspects. <i>International Journal of Molecular Sciences</i> , 2022, 23, 685.	4.1	2
72	Composition and technological features of ceramics manufactured by Benito de Valladares in the seventeenth century from the Alcazar Palace in Seville, Spain. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	2

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73	Analysis of the restoration of an historical organ: The case study of the CavallÃ©-Coll organ of La Merced Church in Burgos, Spain. <i>Studies in Conservation</i> , 2012, 57, 21-28.	1.1	1
74	Thermal characterization and stability evaluation of leishmanicidal selenocyanate and diselenide derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3127-3139.	3.6	1
75	Analysis of fabrics and metal threads from two Andalusian liturgical vestments from the seventeenth and eighteenth centuries: a multitechnical approach. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	1