Trinitat Pradell

List of Publications by Citations

110 papers	2,515 citations	28 h-index	45 g-index
113 ext. papers	2,721 ext. citations	3.5 avg, IF	4.91 L-index

#	Paper	IF	Citations
110	Crystallisation kinetics and microstructure development in metallic systems. *Progress in Materials Science*, **2002**, 47, 559-619	42.2	144
109	Stable silver colloidal dispersions using short chain polyethylene glycol. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 303, 184-190	5.1	133
108	Luster Pottery from the Thirteenth Century to the Sixteenth Century: A Nanostructured Thin Metallic Film. *Journal of the American Ceramic Society*, **2004**, 84, 442-46	3.8	128
107	The colours of Ca-rich ceramic pastes: origin and characterization. *Applied Clay Science*, **1998**, 13, 187-202	5.2	102
106	Diffusion controlled grain growth in primary crystallization: Avrami exponents revisited. *Journal of Physics Condensed Matter*, **1998**, 10, 3833-3844	1.8	95
105	Advantages of the use of SR-FT-IR microspectroscopy: applications to cultural heritage. *Analytical Chemistry*, **2005**, 77, 3444-51	7.8	93
104	Interactions between Clay Bodies and Lead Glazes. *Journal of the American Ceramic Society*, **2001**, 84, 1120-1128	3.8	81
103	Identification of reaction compounds in micrometric layers from gothic paintings using combined SR-XRD and SR-FTIR. *Talanta*, **2009**, 79, 419-28	6.2	78
102	Evidence of Tin Oxide Recrystallization in Opacified Lead Glazes. *Journal of the American Ceramic Society*, **2004**, 82, 2871-2875	3.8	70
101	Microstructural evaluation of primary crystallization with diffusion-controlled grain growth. *Physical Review B*, **1997**, 55, 3435-3444	3.3	63
100	Identification of copper-based green pigments in Jaume Huguet's Gothic altarpieces by Fourier transform infrared microspectroscopy and synchrotron radiation X-ray diffraction. *Journal of Synchrotron Radiation*, **2002**, 9, 215-22	2.4	59
99	Ionic-Exchange Mechanism in the Formation of Medieval Luster Decorations. *Journal of the American Ceramic Society*, **2005**, 88, 1281-1289	3.8	58
98	TECHNOLOGY AND COLOUR DEVELOPMENT OF HISPANO-MORESQUE LEAD-GLAZED POTTERY. *Archaeometry*, **1997**, 39, 23-39	1.6	46
97	Physical Processes Involved in Production of the Ancient Pigment, Egyptian Blue. *Journal of the American Ceramic Society*, **2006**, 89, 1426-1431	3.8	46
96	Evaluation of time-dependent grain-size populations for nucleation and growth kinetics. *Physical Review B*, **1996**, 54, 3101-3109	3.3	46
95	Revisiting the beginnings of tin-opacified Islamic glazes. *Journal of Archaeological Science*, **2015**, 57, 80-91	2.9	41
94	The invention of lustre: Iraq 9th and 10th centuries AD. *Journal of Archaeological Science*, **2008**, 35, 1201-1215	2.4	37

93	Shades of green in 15th century paintings: combined microanalysis of the materials using synchrotron radiation XRD, FTIR and XRF. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 47-57	2.6	36
92	A Mossbauer study of the nanocrystallization process in Fe73.5CuNb3Si17.5B5alloy. *Journal of Physics Condensed Matter*, **1995**, 7, 4129-4143	1.8	36
91	Lustre Recipes from A Medieval Workshop in Paterna. *Archaeometry*, **2001**, 43, 455-460	1.6	34
90	Some aspects of the characterization of decorations on ceramic glazes. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 235-239	2.6	33
89	Manganese brown decorations in 10th to 18th century Spanish tin glazed ceramics. *Applied Clay Science*, **2013**, 82, 86-90	5.2	32
88	Synchrotron radiation micro-XRD in the study of glaze technology. *Applied Physics A: Materials Science and Processing*, **2010**, 99, 407-417	2.6	32
87	Evidence of nucleation and growth of metal Cu and Ag nanoparticles in lustre: AFM surface characterization. *Journal of Non-Crystalline Solids*, **2005**, 351, 568-575	3.9	32
86	Ageing of resin from Pinus species assessed by infrared spectroscopy. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 4073-82	4.4	31
85	The growth of sanidine crystals in the lead of glazes of Hispano-Moresque pottery. *Applied Clay Science*, **1993**, 7, 483-491	5.2	31
84	Color variations in 13th century hispanic lustre An EXAFS study. *Journal of Non-Crystalline Solids*, **2006**, 352, 5353-5361	3.9	29
83	Ceramic technology. How to characterise ceramic glazes. *Archaeological and Anthropological Sciences*, **2020**, 12, 1	1.8	29
82	SR-XRD and SR-FTIR study of the alteration of silver foils in medieval paintings. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 3041-52	4.4	26
81	Key Parameters in the Production of Medieval Luster Colors and Shines. *Journal of the American Ceramic Society*, **2007**, 90, 2245-2254	3.8	26
80	Production technology and replication of lead antimonate yellow glass from New Kingdom Egypt and the Roman Empire. *Journal of Archaeological Science*, **2014**, 41, 171-184	2.9	25
79	New insights on blue pigments used in 15th century paintings by synchrotron radiation-based micro-FTIR and XRD. *Analytical Methods*, **2014**, 6, 3610	3.2	25
78	The use of micro-XRD for the study of glaze color decorations. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 121-127	2.6	25
77	Early Islamic lustre from Egypt, Syria and Iran (10th to 13th century AD). *Journal of Archaeological Science*, **2008**, 35, 2649-2662	2.9	25
76	DISCOVERY, PRODUCTION AND USE OF TIN-BASED OPACIFIERS IN GLASSES, ENAMELS AND GLAZES FROM THE LATE IRON AGE ONWARDS: A REASSESSMENT*. *Archaeometry*, **2007**, 50, 071024000902001-???	1.6	25

75	Spectroscopy study of mural paintings from the Pyrenean Church of Saint Eulàlia of Unha. *Journal of Raman Spectroscopy*, **2010**, 41, 1418-1424	2.3	24
74	Luster decoration of ceramics: mechanisms of metallic luster formation. *Applied Physics A: Materials Science and Processing*, **2006**, 83, 203-208	2.6	24
73	Non-random nucleation and the Avrami kinetics. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2002**, 82, 107-121		23
72	The red–orange patina developed on a monumental dolostone. *Engineering Geology*, **2002**, 63, 31-38	6	22
71	PROTO-CAMPANIAN AND A-CAMPANIAN CERAMICS: CHARACTERIZATION OF THE DIFFERENCES BETWEEN THE BLACK COATINGS. *Archaeometry*, **1991**, 33, 109-117	1.6	22
70	Composition, nanostructure, and optical properties of silver and silver-copper lusters. *Journal of Applied Physics*, **2012**, 112, 054307	2.5	21
69	Role of Cinnabar in Luster Production. *Journal of the American Ceramic Society*, **2004**, 87, 1018-1023	3.8	21
68	Neutron and X-ray characterisation of the metallurgical properties of a 7th century BC Corinthian-type bronze helmet. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 239, 16-26	1.2	21
67	The use of combined synchrotron radiation micro FT-IR and XRD for the characterization of Romanesque wall paintings. *Applied Physics A: Materials Science and Processing*, **2007**, 90, 67-73	2.6	20
66	KINETICS OF MICROSTRUCTURAL DEVELOPMENT IN NANOCRYSTALLINE MATERIALS. *Scripta Materialia*, **1997**, 8, 345-357		19
65	Materials, Techniques, and Conservation of Historic Stained Glass Grisailles. *International Journal of Applied Glass Science*, **2016**, 7, 41-58	1.8	19
64	Metallic and nonmetallic shine in luster: An elastic ion backscattering study. *Journal of Applied Physics*, **2007**, 101, 103518	2.5	16
63	The transition from lead transparent to tin-opacified glaze productions in the western Islamic lands: al-Andalus, c. 875–929 CE. *Journal of Archaeological Science*, **2018**, 94, 1-11	2.9	15
62	Technology of production of polychrome lustre. *Journal of the European Ceramic Society*, **2014**, 34, 2563–2574		15
61	Potters and pigments: preliminary technological assessment of pigment recipes of American majolica by synchrotron radiation micro-X-ray diffraction (Sr-μXRD). *Journal of Archaeological Science*, **2013**, 40, 1408-1415	2.9	15
60	Color and dichroism of silver-stained glasses. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	15
59	Color and Golden Shine of Silver Islamic Luster. *Journal of the American Ceramic Society*, **2010**, 93, 2320-2328	3.8	15
58	Kinetic theory of microstructural evolution in nucleation and growth processes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 238, 160-165	5.3	15

57	Technology of Islamic lustre. *Journal of Cultural Heritage*, **2008**, 9, e123-e128	2.9	15
56	Jun ware glazes: Chemistry, nanostructure and optical properties. *Journal of the European Ceramic Society*, **2018**, 38, 4290-4302	6	12
55	Thin-section petrography and SR-XRD for the identification of micro-crystallites in the brown decorations of ceramic lead glazes. *European Journal of Mineralogy*, **2017**, 29, 861-870	2.2	12
54	Thermodynamic and kinetic factors controlling the formation of nanocrystalline FeCuNbSiB materials. *Scripta Materialia*, **1995**, 6, 453-456		12
53	Glaze production at an early Islamic workshop in al-Andalus. *Archaeological and Anthropological Sciences*, **2019**, 11, 2201-2213	1.8	11
52	The mechanism of nanocrystallization driven by the Fe/Si ratio in Fe73.5Cu1Nb3Si22.5−xBx alloys. *Journal of Applied Physics*, **1998**, 83, 5171-5178	2.5	11
51	Crystallization behaviour of Fe40Ni40SixP20−x (x=6, 10, 14) amorphous alloys. *Journal of Non-Crystalline Solids*, **2000**, 276, 113-121	3.9	11
50	The Glaze Technology of Hispano-Moresque Ceramic Tiles: A Comparison Between Portuguese and Spanish Collections. *Archaeometry*, **2017**, 59, 667-684	1.6	10
49	Markers, Reactions, and Interactions during the Aging of Pinus Resin Assessed by Raman Spectroscopy. *Journal of Natural Products*, **2017**, 80, 854-863	4.9	10
48	Glazes, colourants and decorations in early Islamic glazed ceramics from the Vega of Granada (9th to 12th centuries CE). *Journal of Archaeological Science: Reports*, **2018**, 21, 1141-1151	0.7	10
47	Structural study of conventional and bulk metallic glasses during annealing. *Journal of Alloys and Compounds*, **2009**, 483, 578-581	5.7	10
46	Temperature resolved reproduction of medieval luster. *Applied Physics A: Materials Science and Processing*, **2007**, 90, 81-88	2.6	10
45	Analysis of Syrian lustre pottery (12th–14th centuries AD). *Applied Clay Science*, **2013**, 82, 106-112	5.2	9
44	Optimal Sample Preparation for the Analysis of Micrometric Heterogeneous Samples. *Analytical Chemistry*, **2015**, 87, 6500-4	7.8	9
43	Magnetic properties of dense carbon nanospheres prepared by chemical vapor deposition. *Chemical Physics Letters*, **2007**, 447, 295-299	2.5	9
42	MicroEXAFS study into the oxidation states of copper coloured Hispano-Moresque lustre decorations. *European Physical Journal Special Topics*, **2003**, 104, 519-522		9
41	Technological implications of neo-formed hematite crystals in ceramic lead glazes. *Science and Technology of Archaeological Research*, **2017**, 3, 366-375	1.2	8
40	Thermal and structural changes induced by mechanical alloying in melt-spun Fe–Ni based amorphous alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 881-887	5.3	8

39	Ball milling of Fe40Ni40P20-xSix (x = 6, 10 and 14): production and characterization. *Philosophical Magazine*, **2003**, 83, 2323-2342	1.6	8
38	On the equations describing the grain size distribution change for KJMA kinetics. *Journal of Non-Crystalline Solids*, **2001**, 287, 88-91	3.9	8
37	Kinetic simulation of primary transformations in glassy alloys. *Journal of Non-Crystalline Solids*, **2001** , 287, 92-95	3.9	8
36	Mineralogical characterization of the Garumnian subbituminous lignite from the central Pyrenees by SEM-EDX, X-ray diffraction and M□sbauer spectroscopy. *Fuel*, **1993**, 72, 971-975	7.1	8
35	The production of a lead glaze with galena: Thermal transformations in the PbS□iO2 system. *Journal of the American Ceramic Society*, **2018**, 101, 2119-2129	3.8	7
34	Direct evidence of two different relaxation processes induced by heat treatment on Fe40Ni40B20glassy ribbons. *Journal of Physics F: Metal Physics*, **1988**, 18, 2669-2681		7
33	Tracing the tin-opacified yellow glazed ceramics in the western Islamic world: the findings at Mad□at al-Zahr□*Archaeological and Anthropological Sciences*, **2019**, 11, 777-787	1.8	6
32	Identification and Distribution of Metal Soaps and Oxalates in Oil and Tempera Paint Layers in Fifteenth-Century Altarpieces Using Synchrotron Radiation Techniques. *Cultural Heritage Science*, **2019**, 195-210	1.4	5
31	Technology of production of Syrian lustre (11th to 13th century). *Journal of the European Ceramic Society*, **2018**, 38, 2716-2727	6	5
30	M□sbauer spectroscopy Study of the Crystallisation Behaviour of Fe-Ni-Si-P amorphous powders prepared by Ball Milling. *Materials Science Forum*, **2001**, 360-362, 525-530	0.4	5
29	Modernist enamels: Composition, microstructure and stability. *Journal of the European Ceramic Society*, **2020**, 40, 1753-1766	6	5
28	Thermal properties and stability of Catalan Modernist blue and green enamels. *International Journal of Applied Glass Science*, **2019**, 10, 414-425	1.8	4
27	Composition of the Lustre Pigment Used in the Production Of 13th Century AD Raqqa Lustreware from Syria. *Archaeometry*, **2016**, 58, 979-986	1.6	4
26	Low molecular weight organic acid salts, markers of old fungi activity in wall paintings. *Analytical Methods*, **2016**, 8, 1637-1645	3.2	4
25	From tin- to antimony-based yellow opacifiers in the early Islamic Egyptian glazes: Regional influences and ruling dynasties. *Journal of Archaeological Science: Reports*, **2019**, 26, 101923	0.7	4
24	Structural evolution of metallic glasses during annealing through in situ synchrotron X-ray diffraction. *Journal of Non-Crystalline Solids*, **2008**, 354, 5140-5142	3.9	4
23	Amorphous calcium carbonate (ACC) in fresco mural paintings. *Microchemical Journal*, **2020**, 154, 104567	4.8	4
22	Microanalytical study of luster glazed gilding and silvering from Baroque altarpieces. *Pure and Applied Chemistry*, **2018**, 90, 477-492	2.1	3

21	Lustre and Nanostructures: Ancient Technologies Revisited **2016**, 3-39		3
20	Interphase stresses in ceramic composites. *Journal of Materials Science Letters*, **1990**, 9, 960-961		3
19	Non-random nucleation and the Avrami kinetics		3
18	Islamic glazed wares from ancient Termez (southern Uzbekistan). Raw materials and techniques. *Journal of Archaeological Science: Reports*, **2020**, 29, 102169	0.7	3
17	Composition, microstructure and corrosion mechanisms of Catalan Modernist enamelled glass. *Journal of the European Ceramic Society*, **2021**, 41, 1707-1719	6	3
16	Carbonation of fresco mural paintings with a dolomitic mortar. *Cement and Concrete Research*, **2022**, 157, 106828	10.3	3
15	Fe in P-doped basaltic melts: A Mössbauer spectroscopy study. *Materials Letters*, **2018**, 228, 57-60	3.3	2
14	Mössbauer spectroscopy Study of the Crystallisation Behaviour of Fe-Ni-Si-P amorphous powders prepared by Ball Milling. *Journal of Metastable and Nanocrystalline Materials*, **2001**, 10, 525-530	0.2	2
13	Madīnat al-Zahrā' or Madīnat Qurtuba? First evidences of the Caliphate tin glaze production of "verde y manganeso" ware. *Archaeological and Anthropological Sciences*, **2020**, 12, 1	1.8	2
12	Production technology of Nabataean painted pottery compared with that of Roman terra sigillata. *Journal of Archaeological Science: Reports*, **2018**, 21, 1073-1078	0.7	1
11	Cobalt nanocrystallites encapsulated in boron nitride shells. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 162, 106-110	3.1	1
10	Mechanosynthesis of an Fe-Ni Melt-Spun Amorphous Alloy under Different Milling Conditions. *Materials Science Forum*, **2003**, 426-432, 1927-1932	0.4	1
9	Nanocrystallisation in Finemet Alloys with Different Si/B Ratios. *Materials Science Forum*, **1999**, 307, 83-88	0.4	1
8	Nanocrystallisation in Finemet Alloys with Different Si/B Ratios. *Journal of Metastable and Nanocrystalline Materials*, **1999**, 1, 83-88	0.2	1
7	Nanostructured precipitates: Experimental versus exact theoretical saxs profiles. *Scripta Materialia*, **1999**, 12, 649-652		1
6	Modeling of Non-Random Nucleation Protocols. *Materials Research Society Symposia Proceedings*, **1999**, 580, 411		1
5	Mechanical Alloying as an Amorphization Route: Application to FeNiPSi Alloys. *Materials Science Forum*, **1996**, 235-238, 169-174	0.4	1
4	The introduction of the glaze in al-Andalus: Technological waves and Oriental influences. *Libyan Studies*, **2020**, 51, 87-98	0.1	1

3	Experimental study of historical processing of cobalt arsenide ore for colouring glazes (15-16th century Europe). *Journal of Archaeological Science: Reports*, **2021**, 36, 102797	0.7	1
2	From Glass to Glaze in al-Andalus: Local Invention and Technological Transfer. *European Journal of Archaeology*,1-20	0.7	1
1	Polychrome glazed ware production in Tunisia during the Fatimid-Zirid period: New data on the question of the introduction of tin glazes in western Islamic lands. *Journal of Archaeological Science: Reports*, **2020**, 34, 102632	0.7	