



Mineralogía y Petrología

Áreas de conocimiento: Cristalografía y Mineralogía; Petrología y Geoquímica

Director: Nicolás Velilla Sánchez

Secretario: Inmaculada Palomo Delgado

Página web: <http://www.ugr.es/~minpet/>

Profesorado: CU: 13, PTU: 9, PDI Contratado y Otros: 3

Tesis leídas

- Estudio de materiales y técnicas constructivas de elementos singulares del Palacio de la Madraza. Protocolo de actuación. Universidad de Granada
Doctorando: Julia Ramos Molina
Director: Eduardo M. Sebastián Pardo y Jorge Alberto Durán Suarez
Fecha de lectura: 1 de octubre de 2015
- Propuesta y establecimiento de un protocolo de actuación para el estudio de la terracota como soporte de la escultura policromada, su evolución y alteraciones del comportamiento material en los procesos de envejecimiento natural
Doctorando: Lucía Rueda Quero
Director: C. Bermúdez Sánchez y G. Cultrone
Fecha de lectura: 13-01-2016
- Assessment for the use of waste in brick production. Petrophysical characterization of new mix designs and optimization of the firing conditions
Doctorando: Chiara Coletti
Director: C. Mazzoli y G. Cultrone
Fecha de lectura: 8-04-2016. Tesis Doctoral en cotutela entre las Universidades de Padova (Italia) y Granada
- Depositional control of diagenetically-induced heterogeneity in Triassic red beds sandstones
Doctorando: Saturnina Henares Ladrón de Guevara
Director: C. Viseras Alarcón y G. Cultrone
Fecha de lectura: 20-06-2016

Grupos de Investigación.

- RNM17 MINERALOGÍA Y GEOQUÍMICA DE LOS AMBIENTES SEDIMENTARIO Y METAMÓRFICO
- Responsable: MIGUEL ORTEGA HUERTAS
- RNM30 PETROLOGIA Y MODELIZACION DE PROCESOS LITOSFERICOS
- Responsable: FERNANDO BEA BARREDO
- RNM14 GEOQUIM.DE PROC.ENDOG.Y PETROG.DE ROCAS IGNEAS Y METAM.
- Responsable: MARIA TERESA GOMEZ PUGNAIRE
- RNM13 GRUPO DE INVESTIGACIÓN MINERALOGÍA PETROLOGÍA Y YACIMIENTOS MINERALES (GIMPY)
- Responsable: PURIFICACION FENOLL HACH-ALI

Dirección y participación en Proyectos I+D

- 2015 Herencia de circo en procesos magmáticos. Mecanismos y aplicaciones al estudio del reciclado cortical y la dinámica del manto, Ministerio de Economía y Competitividad, 01/01/- 2015 -31/12/2017
Investigador/a: CAMBESES TORRES, AITOR
Investigador/a: LAZARO CALISALVO, CONCEPCION
Investigador/a: MOLINA PALMA, JOSE FRANCISCO
Investigador/a: SCARROW, JANE HANNAH
Investigador/a: GARCIA CASCO, ANTONIO
Investigador/a: GONZALEZ MONTERO, MARIA PILAR
Responsable: BEA BARREDO, FERNANDO
Investigador/a: ORTEGA HUERTAS, MIGUEL
- 2015 Procedencia, formación, modificación y oceanización del manto litosférico subcontinental en el Mediterráneo occidental, Proyectos de I+D, del Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia, Subprograma de Generación del Conocimiento, 01/01/- 2015 -
Responsable: MARCHESI, CLAUDIO
- 2015 Acumulación y preservación de materia orgánica en sedimentos: El Evento Anxico OAE 2 como Análogo de Cambio Climático, Programa de Fortalecimiento de Grupos de Investigación (Junta de Andalucía), 01/02/- 2015 -31/08/- 2015
GALLEGO TORRES, DAVID

Publicaciones en revistas

- 2016 Review: An overview of emerging hyphenated SEM-EDX, Trends in Analytical Chemistry, 77, , CARDELL FERNÁNDEZ, CAROLINA
- 2016 Artículo: From deep to shallow fluid reservoirs: evolution of fluid sources during exhumation of the Sierra Almagrera, Betics, Spain, Geofluids (Oxford. Print), 16, 1, 103-128



MORALES RUANO, SALVADOR

- 2016 Artículo: Mineralogy, geochemistry and sulfur isotope characterization of Cerro de Maimón (Dominican Republic), San Fernando and Antonio (Cuba): Lower Cretaceous VMS deposits associated to the subduction initiation of the Proto-Caribbean lithosphere within a fore-arc, *Ore Geology Reviews*, 72, , 794-817

GARCIA CASCO, ANTONIO

- 2016 Artículo en prensa: Devonian magmatism in the Timan Range, Arctic Russia - subduction, post-orogenic extension, or rifting?, *Tectonophysics*, , , -

SCARROW , JANE HANNAH

- 2016 Artículo: Petrogenesis and $^{40}\text{Ar}/^{39}\text{Ar}$ dating of proto-forearc crust in the Early Cretaceous Caribbean Arc: The La Tinta mélange (eastern Cuba) and its easterly correlation in Hispaniola., *International Geology Review*, , , -

BLANCO QUINTERO, IDAEL FRANCISCO

GARCIA CASCO, ANTONIO

LAZARO CALISALVO, CONCEPCION

- 2016 Artículo: Recycling and transport of continental material through the mantle wedge above subduction zones: A Caribbean example, *Earth and Planetary Science Letters*, 436, , 93-107

GARCIA CASCO, ANTONIO

LAZARO CALISALVO, CONCEPCION

- 2016 Artículo: XRD-TEM-AEM comparative study of n-alkylammonium smectites and interstratified minerals in shallow-diagenetic carbonate sediments of the Basque-Cantabrian Basin, *American Mineralogist*, 101, , 385-398

NIETO GARCÍA, FERNANDO

- 2016 Artículo: Chemical and textural controls on the formation of sepiolite, palygorskite and dolomite in volcanic soils, *Geoderma (Amsterdam)*, 271, , 99-114

GARCIA CASCO, ANTONIO

SÁNCHEZ NAVAS, ANTONIO

- 2016 Artículo: Direct nanoscale imaging reveals the growth of calcite crystals via amorphous nanoparticles, *Crystal Growth and Design*, 16, 4, 1850-1860

BURGOS CARA, ALEJANDRO

RODRÍGUEZ NAVARRO, CARLOS MANUEL

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2016 Artículo: Exploring the effect of poly(acrylic acid) on pre- and post-nucleation BaSO_4 species: new insights into the mechanisms of crystallization control by polyelectrolytes, *CrystEngComm*, , , -

BURGOS CARA, ALEJANDRO

RODRÍGUEZ NAVARRO, CARLOS MANUEL

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2016 Artículo: Hydration effects on gypsum dissolution revealed by in situ nanoscale atomic force microscopy observations, *Geochimica Et Cosmochimica Acta*, 179, , 110-122

BURGOS CARA, ALEJANDRO

RODRÍGUEZ NAVARRO, CARLOS MANUEL

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2016 Artículo: An evaluation of the impact of urban air pollution on paint dosimeters by tracking changes in the lipid MALDI-TOF mass spectra profile, *Talanta*, 155, , 53-61

HERRERA RUBIA, JUAN AGUSTIN

- 2016 Artículo: How to face the new industrial challenge of compatible, sustainable brick production: study of various types of commercially available bricks, *Applied Clay Science*, 124-125, , 219-226

CULTRONE , GIUSEPPE

- 2016 Artículo: A methodology for timing interventions made on the polychrome decorations of the facade of the Palace of King Peter I, the Royal Alcázar of Seville, Spain, *Journal of Cultural Heritage*, xxx, , xxx-xxx

SÁNCHEZ NAVAS, ANTONIO

- 2016 Artículo: Transformation of kyanite to andalusite in the Benamocarra Unit (Betic Cordillera, s. Spain). Kinetics and petrological significance, *European Journal Of Mineralogy (Print)*, 28, 2, 337-

SÁNCHEZ NAVAS, ANTONIO

- 2016 Artículo: Saharan dust outbreaks and iberulite episodes, *Journal of Geophysical Research*, 121, , SÁNCHEZ NAVAS, ANTONIO

- 2015 Artículo: SHRIMP U-Pb zircon dating of the Valencia del Ventoso plutonic complex, Ossa-Morena Zone, SW Iberia: Lower Carboniferous extension-related "calc-alkaline" magmatism, *Gondwana Research*, 28, , 735-756

BEA BARREDO, FERNANDO

CAMBESES TORRES, AITOR

GONZALEZ MONTERO, MARIA PILAR

MOLINA PALMA, JOSE FRANCISCO

MORENO MORENO, JUAN ANTONIO



SCARROW , JANE HANNAH

- 2015 Artículo: Paleoclimate and paleoceanography over the past 20,000 yr in the Mediterranean Sea Basins as indicated by sediment elemental proxies, *Quaternary Science Reviews*, 107, , 25-46

GALLEGO TORRES, DAVID

MARTÍNEZ RUIZ, FRANCISCA

ORTEGA HUERTAS, MIGUEL

RODRIGO GÁMIZ, MARTA

- 2015 Artículo: Influence of deep-water derived isoprenoid tetraether lipids on the TEX86 paleothermometer in the Mediterranean Sea, *Geochimica et Cosmochimica Acta*, , 150, 125-141

RODRIGO GÁMIZ, MARTA

- 2015 Artículo: The influence of pH on barite nucleation and growth, *Chemical Geology*, 391, , 7-18

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Artículo: Formation of amorphous calcium carbonate and its transformation into mesostructured calcite, *CrystEngComm* [electronic resource], 17, , 58-72

RODRÍGUEZ NAVARRO, CARLOS MANUEL

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Artículo: A chemical, morphological and mineralogical study on the interaction between hemp hurds and aerial and natural hydraulic lime particles: implications for mortar manufacturing, *Construction and Building Materials*, 75, , 375-384

ARIZZI , ANNA

CULTRONE , GIUSEPPE

- 2015 Artículo: Weathering profile of the Cerro de Maimón VMS deposit (Dominican Republic): textures, mineralogy, gossan evolution and mobility of gold and silver, *Ore Geology Reviews*, 65, , 165-179

GARCIA CASCO, ANTONIO

- 2015 Artículo: Constraints on the applicability of the organic temperature proxies UK'37, TEX86 and LDI in the subpolar region around Iceland, *Biogeosciences*, , 12, 6573-6590

RODRIGO GÁMIZ, MARTA

- 2015 Artículo: Paleoclimate and paleoceanography over the past 20,000 yr in the Mediterranean Sea Basins as indicated by sediment elemental proxies, *Quaternary Science Reviews*, 107, , 25-46

GALLEGO TORRES, DAVID

MARTÍNEZ RUIZ, FRANCISCA

NIETO MORENO, VANESA MARÍA

ORTEGA HUERTAS, MIGUEL

- 2015 Artículo: La molienda en la Protohistoria del mediodía peninsular ibérico, *Revista d'Arqueologia de Ponent*, , 24, 215-237

MOLINA PIERNAS, EDUARDO

- 2015 Artículo: Lime mortar consolidation with nanostructured calcium hydroxide dispersions: the efficacy of different consolidating products for heritage conservation, *European Journal Of Mineralogy (Print)*, 27, 3, 311-323

ARIZZI , ANNA

CULTRONE , GIUSEPPE

- 2015 Artículo: The spatial and compositional evolution of the Late Jurassic Ghorveh-Dehghan plutons of the Zagros Orogen, Iran: SHRIMP zircon U-Pb and Sr and Nd isotope evidence, *Geologica Acta*, 13, 2, 25-43

BEA BARREDO, FERNANDO

GONZALEZ MONTERO, MARIA PILAR

SCARROW , JANE HANNAH

- 2015 Artículo: Role of bacteria in marine barite precipitation: A case study using, *Science of the Total Environment*, 512-513, , 562-571

MARTÍNEZ RUIZ, FRANCISCA

- 2015 Artículo: Stone Consolidation by Bacterial carbonatogenesis: evaluation of in situ applications, *Restoration of Buildings and Monuments*, 21, 1, 9-20

RODRÍGUEZ NAVARRO, CARLOS MANUEL

- 2015 Artículo: Palaeoclimate and palaeoceanographic conditions in the westernmost Mediterranean over the last millennium: an integrated organic and inorganic approach, *Journal Of The Geological Society (London)*, 172, , 264-271

GALLEGO TORRES, DAVID

MARTÍNEZ RUIZ, FRANCISCA

NIETO MORENO, VANESA MARÍA

ORTEGA HUERTAS, MIGUEL

- 2015 Artículo: Petrographic and chemical characterization of Bronze Age pottery from the settlement of Mount San Paolillo (Catania, Italy), *Rendiconti Lincei-Scienze Fisiche e Naturali*, 26, , 485-497

CULTRONE , GIUSEPPE

- 2015 Artículo: In Situ Imaging of Interfacial Precipitation of Phosphate on Goethite, *Environmental Science and Technology*, 49, 7, 4184-4192



RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Artículo: Interactions of arsenic with calcite surfaces revealed by in situ nanoscale imaging, *Geochimica Et Cosmochimica Acta*, 159, , 61-79

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Artículo: Dihydroxyacetone crystallization: process, environmental, health and safety criteria application for solvent selection, *CHEMICAL ENGINEERING SCIENCE*, 134, 29 September - 2015 , BURGOS CARA, ALEJANDRO

- 2015 Artículo: Mineralogical, textural and physical-mechanical study of hydraulic lime mortars cured under different moisture conditions, *Materiales de Construcción*, 65, 318, e053-1-e053-11

ARIZZI , ANNA

CULTRONE , GIUSEPPE

SEBASTIÁN PARDO, EDUARDO M.

- 2015 Artículo: Did the Turonian-Coniacian plume pulse trigger subduction initiation in the Northern Caribbean? Constraints from Ar-40/Ar-39 dating of the Moa-Baracoa metamorphic sole (eastern Cuba), *International Geology Review*, 57, 5-8, 919-942

BLANCO QUINTERO, IDAEL FRANCISCO

GARCIA CASCO, ANTONIO

LAZARO CALISALVO, CONCEPCION

- 2015 Artículo: Large celestine orebodies formed by early-diagenetic replacement of gypsified stromatolites (Upper Miocene, Montevive¿Escúzar deposit, Granada Basin, Spain), *Ore Geology Reviews*, 64, , 187-199

TORRES RUIZ, JOSE

- 2015 Artículo: Tourmaline as a petrogenetic monitor of the origin and evolution of the Berry-Havey pegmatite (Maine, U.S.A.), *The American Mineralogist (Print)*, 100, , 95-109

TORRES RUIZ, JOSE

- 2015 Artículo: Two distinct Late Mesoproterozoic/Early Neoproterozoic basement provinces in central/eastern Dronning Maud Land, East Antarctica: The missing link, 15¿21°E, *Precambrian Research*, 265, , 249-272

BEA BARREDO, FERNANDO

GONZALEZ MONTERO, MARIA PILAR

- 2015 Artículo: Radiogenic isotopes for deciphering terrigenous input provenance in the western Mediterranean, *Chemical Geology*, 410, , 237-250

JIMENEZ ESPEJO, FRANCISCO J.

MARTÍNEZ RUIZ, FRANCISCA

RODRIGO GÁMIZ, MARTA

- 2015 Artículo: SHRIMP U-Pb geochronological constraints on the timing of the intra-Alcudian, *International Journal of Earth Sciences*, 104, , 1739-1757

TALAVERA RODRÍGUEZ, CRISTINA

- 2015 Artículo: A comparison of benthic foraminiferal Mn/Ca and sedimentary Mn/Al as proxies of relative bottom-water oxygenation in the low-latitude NE Atlantic upwelling system, *Biogeosciences (Print)*, 12, 1-3, -

GALLEGO TORRES, DAVID

- 2015 Artículo: Role of clay minerals in the formation of atmospheric aggregates of Saharan dust, *Atmospheric Environment*, 120, , 160-172

GARCIA CASCO, ANTONIO

SÁNCHEZ NAVAS, ANTONIO

- 2015 Artículo: Pictorial materials used in the polychrome decorations of the façade of the palace of King Pedro I (The Royal Alcazar of Seville, Spain), *Materiales de Construcción*, 65, 318, e054-

SÁNCHEZ NAVAS, ANTONIO

VELILLA SANCHEZ, NICOLAS

- 2015 Artículo: The influence of the type of lime in the hygric behaviour and bio-receptivity of hemp lime composites used for rendering applications in sustainable new construction and repair works, *PLoS One*, 10, e0125520, 1-19

ARIZZI , ANNA

CULTRONE , GIUSEPPE

- 2015 Artículo: Pyrite framboids size distribution as a record for relative variations in sedimentation rate: an example on the Toarcian Oceanic Anoxic Event in Southiberian Palaeomargin., *Sedimentary Geology*, , , -

GALLEGO TORRES, DAVID

NIETO MORENO, VANESA MARÍA

- 2015 Artículo: Subduction- and exhumation-related structures preserved in metaserpentinites and associated metasediments from the Nevado-Filabride Complex (Betic Cordillera, SE Spain), *Tectonophysics*, 644, , 40-57

GOMEZ PUGNAIRE, MARIA TERESA

LOPEZ SANCHEZ-VIZCAINO, VICENTE



PADRÓN NAVARTA, JOSÉ ALBERTO

- 2015 Artículo: Predicting the long-term durability of hemp-lime renders in inland and coastal areas using Mediterranean, Tropical and Semi-arid climatic simulations, *Science of the Total Environment*, 542, , 757-770

ARIZZI, ANNA

CULTRONE, GIUSEPPE

- 2015 Artículo: Study and ICH validation of a reverse-phase liquid chromatographic method for the quantification of the intact monoclonal antibody cetuximab, *Journal of Pharmaceutical Analysis*, , ,

HERRERA RUBIA, JUAN AGUSTIN

- 2015 Artículo: The role of intracontinental deformation in supercontinent assembly: insights from the Ribeira Belt, Southeastern Brazil (Neoproterozoic West Gondwana), *Terra Nova*, 27, , 206-217

GARCIA CASCO, ANTONIO

- 2015 Artículo: LP/HT metamorphism as a temporal marker of change of deformation style within the Late Palaeozoic accretionary wedge of central Chile, *Journal of Metamorphic Geology*, 33, 9,

GARCIA CASCO, ANTONIO

- 2015 Artículo: Importance of eggshell cuticle composition and maturity for avoiding trans-shell Salmonella contamination in chicken eggs, *Food Control*, , 55, 31-38

DOMÍNGUEZ GASCA, NAZARET

- 2015 Artículo: Alkaline activation, *Journal Of Cultural Heritage*, 16, , 461-469

SEBASTIÁN PARDO, EDUARDO M.

- 2015 Artículo: First Evidence for Cambrian Rift-related Magmatism in the West African Craton margin: The Derraman Peralkaline Felsic Complex. *Gondwana Research*, *Gondwana Research*, , , -

BEA BARREDO, FERNANDO

GONZALEZ MONTERO, MARIA PILAR

LAZARO CALISALVO, CONCEPCION

MOLINA PALMA, JOSE FRANCISCO

- 2015 Artículo: Magnesium isotopic systematics of metapelite in the deep crust and implications for granite petrogenesis, *Geochemical Perspective Letters*, 1, 1, 75-83

BEA BARREDO, FERNANDO

- 2015 Artículo: New insights in technology characterization of medieval Valencia glazes, X-Ray spectrometry, 44, , 426-435

CARDELL FERNÁNDEZ, CAROLINA

ROMERO PASTOR, JULIA

- 2015 Artículo: Micro- and nano-characterization of Zn-clays in nonsulfide supergene ores of southern Peru, *The American Mineralogist (Print)*, 100, , 2484-2496

NIETO GARCÍA, FERNANDO

- 2015 Artículo: Unconventional non-magmatic sulfur source for the Mazarrón Zn-Pb-Cu-Ag-Fe epithermal deposit (SE Spain), *Ore Geology Reviews*, 72, , 1102-1115

ESTEBAN ARISPE, IÑAKI

MORALES RUANO, SALVADOR

- 2015 Artículo: ISSN: 1469-0667 © IM Publications LLP - 2015 doi: 10.1255/ejms.1306 All rights reserved EUROPEAN JOURNAL OF MASS SPECTROMETRY Application of matrix-assisted laser desorption and ionization time of flight mass spectrometry to the study of the proteinaceous binders in paint: blue paint composition in the series "The Life of Virgin" by Alonso Cano (17th century) as a case study, *EUROPEAN JOURNAL OF MASS SPECTROMETRY*, 21, , 19-26

ROMERO PASTOR, JULIA

- 2015 Artículo: Persistent monsoonal forcing of the Mediterranean outflow water dynamics during the late Pleistocene, *Geology (Boulder, Colo.)*, 43, , 951-954

JIMENEZ ESPEJO, FRANCISCO J.

- 2015 Artículo: A reference time scale for Site U1385 (Shackleton Site) on the SW Iberian Margin, *Global and Planetary Change*, 133, , 43-64

JIMENEZ ESPEJO, FRANCISCO J.

- 2015 Artículo: Geochemical evidence for intermediate water circulation in the westernmost Mediterranean over the last 20 kyr BP and its impact on the Mediterranean Outflow, *Global and Planetary Change*, 135, , 38-46

JIMENEZ ESPEJO, FRANCISCO J.

- 2015 Artículo: Earliest evidence of pollution by heavy metals in archaeological sites, *SCIENTIFIC REPORTS*, 5, , 14252-

JIMENEZ ESPEJO, FRANCISCO J.

- 2015 Artículo: Repeated advance and retreat of the East Antarctic Ice Sheet on the continental shelf during the early Pliocene warm period, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 422,

JIMENEZ ESPEJO, FRANCISCO J.

- 2015 Artículo: Geology of the Wilkes land sub-basin and stability of the East Antarctic Ice Sheet: insights from rock magnetism at IODP Site U1361, *Paleoceanography*, 412, , 61-69

JIMENEZ ESPEJO, FRANCISCO J.



- 2015 Artículo: Mediterranean outflow and surface water variability off southern Portugal during the early Pleistocene: a snapshot at marine isotope stages 29 to 34 (1020-1135 ka), *Global and Planetary Change*, 133, , 223-237
JIMENEZ ESPEJO, FRANCISCO J.
- 2015 Artículo: El Camino de Vélez, pervivencia de una carretera de la España de la Ilustración., *Revista TST (transportes, servicios, telecomunicaciones).*, 1, 29, 36-63
SÁEZ PÉREZ, MARÍA PAZ
- 2015 Artículo: Importance of eggshell cuticle composition and maturity for avoiding trans-shell Salmonella contamination in chicken eggs, *Food Control*, 55, , 31-38
DOMÍNGUEZ GASCA, NAZARET
RODRIGUEZ NAVARRO, ALEJANDRO
- 2015 Artículo: Hyperextension of continental to oceanic-like lithosphere: the record of late gabbros in the shallow subcontinental lithospheric mantle of the westernmost Mediterranean, *Tectonophysics*, 650, , 65-79
ACOSTA VIGIL, ANTONIO
GARRIDO MARIN, CARLOS JESUS
HIDAS , KAROLY
MARCHESI , CLAUDIO
PADRÓN NAVARTA, JOSÉ ALBERTO
- 2015 Artículo: Redox state of iron during high-pressure serpentinite dehydration, *Contributions to Mineralogy and Petrology*, 169, 36, 1-18
LOPEZ SANCHEZ-VIZCAINO, VICENTE
- 2015 Artículo: Geochemical and isotopic characterization of trace fossil infillings: New insights on tracemaker activity after the K/Pg impact event, *Cretaceous Research*, 57, , 391-401
MARTÍNEZ RUIZ, FRANCISCA

Libros (con ISBN)

- 2015 Influencia de la textura, del sistema poroso y del acabado superficial en la durabilidad de areniscas y travertino explotados en Andalucía y utilizados en construcción: Godel Impresiones Digitales S.L., Unversidad de Granada, - 2015 , 978-84-16478-12-5
MOLINA PIERNAS, EDUARDO

Capítulos de libros (con ISBN)

- 2015 Título Capítulo: The coastal sediment provenance and their distribution in the Mediterranean beaches of NW Morocco, Título Libro: *Sediment fluxes on coastal areas*, Coastal Research Library: Springer, , - 2015 , 978-94-017-9260-8_5
CULTRONE , GIUSEPPE
- 2015 Título Capítulo: Análisis geoquímico e isotópico del material de relleno de trazas fósiles en el tránsito Cretácico-Paleógeno (K-Pg): recuperación de la biota tras el evento del impacto, Título Libro: *Current trends in Paleontology and Evolution: EJP* - 2015 , , - 2015 , 978-84-606-7282-1
MARTÍNEZ RUIZ, FRANCISCA
- 2015 Título Capítulo: Repair rendering mortars for the restoration of the Vargas Palace in Granada (Spain): a comparative study of the mortar behaviour in the laboratory and on site, Título Libro: *use of traditional geomaterials in construction practice: Geological Society of London (Special* ARIZZI , ANNA
CULTRONE , GIUSEPPE
MOLINA PIERNAS, EDUARDO
- 2015 Título Capítulo: Inadequacy of different methods of assessing the correct dosages during the preparation of air-hardening lime mortars, Título Libro: *use of traditional geomaterials in construction practice: Geological Society of London (Special Issue)*, , - 2015 , ARIZZI , ANNA
CULTRONE , GIUSEPPE
- 2015 Título Capítulo: Bioconsolidación de materiales pétreos y ornamentales mediante carbonatogénesis bacteriana, Título Libro: *La Ciencia y el Arte V. Ciencias experimentales y conservación de patrimonio: SECRETARÍA GENERAL TÉCNICA.Subdirección General.Ministerio de Educación, Cultura y Deporte*, , - 2015 , 978-84-608-4003-9
RODRÍGUEZ NAVARRO, CARLOS MANUEL
- 2015 Título Capítulo: Premier bilan sur les moulins pompéiens dans la péninsule ibérique, Título Libro: *Archéologie des moulins hydrauliques, à traction animale et à vent, des origines à l'époque médiévale Actes du colloque international: Presses universitaires de Franche-Comté, Besançon, Francia*, , - 2015 , xxx-x-xx-xxxxx-x
CAMBESES TORRES, AITOR
SCARROW , JANE HANNAH
- 2015 Título Capítulo: Métodos de análisis para el estudio de caracterización y deterioro de la obra de arte realizada en terracota policromada. Aplicación práctica, Título Libro: *CIENCIA Y ARTE V:*



Ministerio de Educación, Cultura y Deporte. Secretaría General Técnica, Subdirección General de Documentación y Publicaciones, - 2015 , 978-84-608-4003-9
CULTRONE , GIUSEPPE

Contribuciones en congresos

- 2015 Comunicación en congreso: ASLO AQUATIC SCIENCE MEETING, Aquatic Sciences: Global And Regional Perspectives, 22/02/- 2015 , GRANADA, Congreso
GALLEGO TORRES, DAVID
- 2015 Ponencia en Congreso: Contribution from natural causes and human activities to climate variability in the westernmost Mediterranean over the last millennium, - 2015 ASLO Aquatic Sciences Meeting, 22/02/- 2015 , , Congreso
NIETO MORENO, VANESA MARÍA
MARTÍNEZ RUIZ, FRANCISCA
GALLEGO TORRES, DAVID
ORTEGA HUERTAS, MIGUEL
- 2015 Comunicación en congreso: Organic matter deposition in the Alboran Sea basin as record of paleoceanographic conditions during the last 15 kyr, - 2015 ASLO Aquatic Sciences Meeting, 22/02/- 2015 , , Congreso
RODRIGO GÁMIZ, MARTA
ORTEGA HUERTAS, MIGUEL
MARTÍNEZ RUIZ, FRANCISCA
GALLEGO TORRES, DAVID
NIETO MORENO, VANESA MARÍA
- 2015 Comunicación en congreso: The Mediterranean barium record: linking productivity fluctuations and climate variability over the last 20 kyr, - 2015 ASLO Aquatic Sciences Meeting, 22/02/- 2015 , ,
MARTÍNEZ RUIZ, FRANCISCA
GALLEGO TORRES, DAVID
RODRIGO GÁMIZ, MARTA
JIMENEZ ESPEJO, FRANCISCO J.
ORTEGA HUERTAS, MIGUEL
NIETO MORENO, VANESA MARÍA
- 2015 Comunicación en congreso: Applying independent organic temperature proxies to reconstruct sea surface temperatures in the western Mediterranean Sea, Insurance Scheme for the European anchovy: The economic value of environmental information., 22/02/- 2015 , Granada, España,
MARTÍNEZ RUIZ, FRANCISCA
RODRIGO GÁMIZ, MARTA
- 2015 Comunicación en congreso: The impact of oxic degradation on long chain alkyl diols in Nannochloropsis sp., 27th International Meeting on Organic Geochemistry, 13/09/- 2015 , Praga, República Checa, Congreso
RODRIGO GÁMIZ, MARTA
- 2015 Comunicación en congreso: The impact of sedimentary oxic degradation on alkenones and long chain alkyl diols in the Arabian Sea Oxygen Minimum Zone: implications for UK δ 37 and LDI temperature proxies, European Geosciences Union General Assembly - 2015 , 12/04/- 2015 , Viena, Austria, Congreso
RODRIGO GÁMIZ, MARTA
- 2015 Comunicación en congreso: Productivity recovery after the Cretaceous-Paleogene boundary event, Insurance Scheme for the European anchovy: The economic value of environmental information., 22/02/- 2015 , Granada, España, Congreso
MARTÍNEZ RUIZ, FRANCISCA
- 2015 Comunicación en congreso: Assessment for the use of waste of trachyte in the brick production, European Geoscience Union - 2015 , 12/04/- 2015 , Viena (Austria), Congreso
CULTRONE , GIUSEPPE
- 2015 Poster en Congreso: A new use of hydroxyapatite-based consolidant: cleaning and consolidation of stones in one step by reaction with gypsum crust, European Geoscience Union - 2015 , 12/04/- 2015 , Viena (Austria), Congreso
MOLINA PIERNAS, EDUARDO
CULTRONE , GIUSEPPE
RUIZ AGUDO, ENCARNACIÓN MARÍA
- 2015 Comunicación en congreso: Análisis geoquímico e isotópico del material de relleno de trazas fósiles en el tránsito Cretácico-Paleógeno (K-Pg): recuperación de la biota tras el evento del impacto, XIII Encuentro de Jóvenes Investigadores en Paleontología, 15/04/- 2015 , Cercedilla, Madrid, España, Congreso
MARTÍNEZ RUIZ, FRANCISCA
- 2015 Poster en Congreso: Effects of background electrolytes on gypsum dissolution., European Geosciences Union General Assembly - 2015 , 12/04/- 2015 , Viena, Austria, Congreso



BURGOS CARA, ALEJANDRO

- 2015 Poster en Congreso: A NEW USE OF HYDROXY APATITE-BASED CONSOLIDANT: CLEANING AND CONSOLIDATION OF STONES IN ONE STEP BY REACTION WITH GYPSUM CRUST, EGU General Assembly, 12/04/- 2015 , AUSTRIA, AUSTRIA, VIENA, Congreso

MOLINA PIERNAS, EDUARDO

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Comunicación en congreso: Limpieza y consolidación de rocas alteradas mediante el reemplazamiento de yeso por hidroxiapatito, XXXV Reunión de la Sociedad Española de Mineralogía, 30/06/- 2015 , Huelva, España, Congreso

CULTRONE , GIUSEPPE

MOLINA PIERNAS, EDUARDO

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Comunicación en Jornada: Caracterización de los yacimientos históricos de arcillas en la provincia de Granada, IV JORNADAS JOVENES INVESTIGADORES, 09/07/- 2015 , , Jornada

CULTRONE , GIUSEPPE

- 2015 Comunicación en congreso: Assessment for the use of waste of trachyte in the brick production, Congresso congiunto SIMP-SGI-So.Ge.I.-AIV, 02/09/- 2015 , , Congreso

CULTRONE , GIUSEPPE

- 2015 Comunicación en congreso: Textural and chemical controls in the formation of a clay-carbonate system in a volcanic soil, Euroclay- 2015 , 05/07/- 2015 , , Congreso

SÁNCHEZ NAVAS, ANTONIO

GARCIA CASCO, ANTONIO

- 2015 Comunicación en congreso: Estudio Experimental del Efecto de la Presión en la Depolimerización de los Silicatos y la Formación de Circón, XXXV Reunión de la Sociedad Española de Mineralogía, 30/06/- 2015 , Huelva, España, Congreso

SÁNCHEZ NAVAS, ANTONIO

- 2015 Comunicación en congreso: Aesthetic of traditional building ceramics in the Bay of Naples (Southern Italy), 1st International Conference on Metrology for Archaeology, 21/10/- 2015 ,

BENEVENTO, ITALIA, Congreso

CULTRONE , GIUSEPPE

- 2015 Comunicación en congreso: Archaeometric characterization of common wares from Ancient Appia Landscapes Survey (Benevento ÷ Italy): new elements to reconstruct a Late Roman micro-regional ceramic production, 1st International Conference on Metrology for Archaeology, 21/10/- 2015 , BENEVENTO, ITALIA, Congreso

CULTRONE , GIUSEPPE

- 2015 Poster en Congreso: Evaluation of changes in the lipid mass spectra profile of paint dosimeters by MALDI-TOF-MS, Non-destructive and microanalytical techniques in art and cultural heritage, 27/04/- 2015 , CATANIA (ITALIA), Congreso

HERRERA RUBIA, JUAN AGUSTIN

- 2015 Poster en Congreso: Spectrophotometry, hyperspectral imaging and profilometry database of blank tempera paint mock-ups, Non-destructive and microanalytical techniques in art and cultural heritage, 27/04/- 2015 , CATANIA(ITALIA), Congreso

HERRERA RUBIA, JUAN AGUSTIN

- 2015 Poster en Congreso: Multi-analytical chemical characterization of blank tempera paint mock-ups as a tool to investigate the impact of atmospheric and marine aerosols, Non-destructive and microanalytical techniques in art and cultural heritage, 27/04/- 2015 , CATANIA(MILAN), Congreso

HERRERA RUBIA, JUAN AGUSTIN

- 2015 Poster en Congreso: Estimación del daño a calizas porosas debido a la cristalización de carbonato sódico, XXXV REUNIÓN DE LA SOCIEDAD ESPAÑOLA DE MINERALOGÍA, 30/06/- 2015 , HUELVA, ESPAÑA, Congreso

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Comunicación en congreso: Virtualización de salidas de campo en el entorno de Granada. Itinerarios Geológicos Virtuales, VIRTUAL USATIC - 2015 , UBICUO Y SOCIAL: APRENDIZAJE CON TIC, 22/06/- 2015 , - Zaragoza, España, Congreso

RUIZ AGUDO, ENCARNACIÓN MARÍA

- 2015 Comunicación en congreso: Microbial barite precipitation under laboratory conditions: implications for paleoproductivity reconstructions, - 2015 ASLO Aquatic Sciences Meeting, 22/02/- 2015 , Granada, España., Congreso

MARTÍNEZ RUIZ, FRANCISCA

- 2015 Comunicación en congreso: BARIUM BIOACCUMULATION BY BACTERIAL BIOMASS: IMPLICATIONS FOR MARINE BARITE PRODUCTION, International Workshop on Mineral Reactivity and Biomineralization, 26/11/- 2015 , . FACULTAD DE CIENCIAS, . FACULTAD DE CIENCIAS, , CAMPUS FUENTE NUEVA. FACULTAD DE CIENCIAS. UNIVERSIDAD DE GRANADA, Congreso

MARTÍNEZ RUIZ, FRANCISCA

- 2015 Poster en Congreso: Fluid-assisted strain localization in peridotites during emplacement of the



- shallow subcontinental lithospheric mantle, EGU General Assembly, 12/04/- 2015 , Viena, AUSTRIA,
Congreso
MARCHESI , CLAUDIO
PADRÓN NAVARTA, JOSÉ ALBERTO
HIDAS , KAROLY
GARRIDO MARIN, CARLOS JESUS
- 2015 Comunicación en congreso: Subduction initiation, recycling of Alboran lower crust, and
intracrustal emplacement of subcontinental lithospheric mantle in the Westernmost
Mediterranean, EGU General Assembly, 12/04/- 2015 , AUSTRIA, AUSTRIA, VIENA, Congreso
GARRIDO MARIN, CARLOS JESUS
MARCHESI , CLAUDIO
HIDAS , KAROLY
ACOSTA VIGIL, ANTONIO
- 2015 Comunicación en congreso: Preliminary petrographic and geochemical study of metarodrigues
from Cerro del Almirez (Betic Cordillera, S. Spain), XXXV Reunión de la Sociedad Española de
Mineralogía (SEM), 30/06/- 2015 , - (HUELVA, ESPAÑA, Congreso
MARCHESI , CLAUDIO
GOMEZ PUGNAIRE, MARIA TERESA
GARRIDO MARIN, CARLOS JESUS
LOPEZ SANCHEZ-VIZCAINO, VICENTE
- 2015 Comunicación en congreso: Refertilization of the subcontinental lithospheric mantle: the record of
orogenic peridotites, Goldschmidt Conference, 16/08/- 2015 , - Praga, República Checa, Congreso
GARRIDO MARIN, CARLOS JESUS
MARCHESI , CLAUDIO
HIDAS , KAROLY
- 2015 Comunicación en congreso: Melting and refertilization of the subcontinental lithospheric mantle
during rifting: the record of the Beni Bousera peridotite (Rif Belt, Morocco), 2nd European Mantle
Workshop, 26/08/- 2015 , Wroclaw, Poland, Congreso
GARRIDO MARIN, CARLOS JESUS
MARCHESI , CLAUDIO
FRETS , ERWIN
- 2015 Comunicación en congreso: Mantle refertilization by melts of crustal-derived garnet pyroxenites,
2nd European Mantle Workshop, 26/08/- 2015 , WROCLAW - PÒLAND, Congreso
GARRIDO MARIN, CARLOS JESUS
MARCHESI , CLAUDIO
HIDAS , KAROLY
- 2015 Poster en Congreso: A possible record of subduction initiation beneath the Greater Antilles paleo-
arc, AGU Fall Meeting, 14/12/- 2015 , CALIFORNIA, SAN FRANCISCO; USA, Congreso
MARCHESI , CLAUDIO
GARRIDO MARIN, CARLOS JESUS
- 2015 Poster en Congreso: Solid state NMR analysis of bio-materials used for renovation of historic
buildings: the study of hemp mortars, Non-destructive microanalytical techniques in art and
cultural heritage, 27/04/- 2015 , CATANIA (ITALIA), Congreso
ARIZZI , ANNA
- 2015 Poster en Congreso: Soil n-alkane dD and brGDGTs distributions track elevation-induced
precipitation and temperature changes along the south central Andes (Argentina), - 2015 AGU Fall
Meeting, 12/12/- 2015 , SAN FRANCISCO, CA. USA., Congreso
NIETO MORENO, VANESA MARÍA
- 2015 Comunicación en congreso: The ¿Naturalime¿ project: new insight into the study of hemp-based
mortars for new construction and heritage conservation, 1st International Conference on Bio-
based Building Materials, 22/06/- 2015 , CLERMONT FERRAND, FRANCIA, Congreso
ARIZZI , ANNA
- 2015 Poster en Congreso: Tectonics, climate, and landscape evolution of the southern-central Andes
revealed by leaf wax stable isotopes, - 2015 AGU Fall Meeting, 12/12/- 2015 , SAN FRANCISCO, CA.
USA., Congreso
NIETO MORENO, VANESA MARÍA
- 2015 Poster en Congreso: The dynamics of serpentinite dehydration reactions in subduction zones:
Constraints from the Cerro del Almirez ultramafic massif (Betic Cordillera, SE Spain), European
Geosciences Union (EGU), General Assembly - 2015 , 12/04/- 2015 , Austria, Viena, Congreso
LOPEZ SANCHEZ-VIZCAINO, VICENTE
- 2015 Comunicación en congreso: Textural variation by antigorite dehydration reaction as key indication
for fluid release mechanisms in subduction zones: Constraints from the Cerro del Almirez
ultramafic massif (Betic Cordillera, SE Spain), - 2015 AGU Fall Meeting, 12/12/- 2015 , SAN
FRANCISCO, CA. USA., Congreso
LOPEZ SANCHEZ-VIZCAINO, VICENTE