



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: 12, PTU: 10, PDI Contratado y Otros: 3

Tesis leídas

- Salt-enhanced physical and chemical weathering of porous materials, and preventive conservation strategies

Doctorando: Mara Schiro

Director: Carlos Rodríguez Navarro y Encarnación Ruiz Agudo

Fecha de lectura: 7 de octubre de 2016

- Origin of chemical heterogeneities in the subcontinental lithospheric mantle

Doctorando: Mª Isabel Varas Reus

Director: Carlos J. Garrido Marín y Claudio Marchesi

Fecha de lectura: 19 de diciembre de 2016

- Mineralizaciones epitermales de San José: formación, evolución y contexto en el sistema volcánico calcoalcalino del SE de España

Doctorando: Iñaki Esteban Arispe

Director: Salvador Morales Ruano, Francisco Velasco Roldán y Francisco Javier Carrillo Rosua

Fecha de lectura: 11 de enero de 2017

Grupos de Investigación.

RNM145 GEOQUIM.DE PROC.ENDOG.Y PETROG.DE ROCAS IGNEAS Y METAM.

- Responsable: MARIA TERESA GOMEZ PUGNAIRE

RNM131 GRUPO DE INVESTIGACIÓN MINERALOGÍA PETROLOGÍA Y YACIMIENTOS MINERALES (GIMPY)

- Responsable: JOSE TORRES RUIZ

RNM179 MINERALOGÍA Y GEOQUÍMICA DE LOS AMBIENTES SEDIMENTARIO Y METAMÓRFICO

- Responsable: MIGUEL ORTEGA HUERTAS

RNM302 PETROLOGÍA Y MODELIZACION DE PROCESOS LITOSFERICOS

- Responsable: FERNANDO BEA BARREDO

FQM195 QUIMICA DE LA COORDINACIÓN Y ANÁLISIS ESTRUCTURAL

- Responsable: MANUEL RODRÍGUEZ GALLEG

Dirección y participación en Proyectos I+D

- 2017 Optimización en la producción de ladrillos mediante la adición de residuos industriales, , 01/01/2017-31/12/2019

Investigador/a EDUARDO M. SEBASTIÁN PARDO

- 2017 EVENTOS Y PALEOGEOGRAFIA DURANTE LA EVOLUCION ALPINA Y PRE-ALPINA DE LAS ZONAS INTERNAS BÉTICAS, DOMINIOS ADYACENTES Y EQUIVALENTES PERIMEDITERRANEOS, , 01/01/2017-31/12/2019

Responsable ANTONIO SÁNCHEZ NAVAS

- 2017 Carbonates: from biomineralization and Earth's climate evolution to CO₂ capture and built heritage conservation, Competitivo, 01/01/2017-31/12/2020

Responsable CARLOS MANUEL RODRÍGUEZ NAVARRO

- 2016 Los terrenos formadores de Pangea entre el Sur de Iberia y el Norte de Marruecos: correlación paleogeográfica y evolución tectónica, , 01/01/2016-31/12/2018

Participante CRISTINA TALAVERA RODRÍGUEZ

- 2016 Alteración y carbonatación de silicatos de calcio y magnesio: implicaciones en la captura, almacenamiento y utilización de CO₂ (CARBSIL-CO₂), , 01/01/2016-31/12/2018

Participante ALEJANDRO BURGOS CARA

Participante KERSTIN ELERT

Participante AURELIA MARÍA IBÁÑEZ VELASCO

Participante MARIA DEL MAR ABAD ORTEGA

Responsable CARLOS MANUEL RODRÍGUEZ NAVARRO

Responsable ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Proyecto dea Roma. Microarqueología del comportamiento ritual en Cales Coves a partir del registro sedimentario, , 14/06/2016-28/02/2017

Investigador/a CAROLINA CARDELL FERNANDEZ

- 2016 Estudio de los mecanismos de control del proceso de biomineralización de la cáscara de huevo, , 01/01/2016-31/12/2018

Responsable ALEJANDRO RODRIGUEZ NAVARRO



Investigador/a PEDRO DOMINGO ÁLVAREZ LLORET

- 2016 UZDOC 2.0.: Furthering the quality of doctoral education at Higher Education Institutions in Uzbekistan, , 01/12/2016-30/11/2019

Responsable ANTONIO GARCIA CASCO

- 2016 Comportamiento reológico complejo de zonas de falla activas en secuencias carbonatadas multicapa: aplicaciones a la estimación de riesgo sísmico y la explotación de recursos hídricos, Competitivo, 01/01/2016-31/12/2017

Investigador/a FERNANDO NIETO GARCÍA

- 2016 Devolatilización, Reciclaje de CO₂ y Balances Redox Asociados a la Subducción de Serpentinitas: Implicaciones para el Ciclo Profundo del Carbono, Competitivo, 30/12/2016-29/12/2019

Investigador/a JUAN MANUEL FERNANDEZ SOLER

- 2016 ESTUDIO DE LOS MECANISMOS DE CONTROL DEL PROCESO DE BIOMINERALIZACION DE LA CASCARA DE HUEVO, Competitivo, 01/01/2016-01/01/2018

Participante NAZARET DOMÍNGUEZ GASCA

Responsable ALEJANDRO RODRIGUEZ NAVARRO

- 2016 'ALTERACION Y CARBONATACION DE SILICATOS DE CALCIO Y MAGNESIO: IMPLICACIONES EN LA CAPTURA, ALMACENAMIENTO Y UTILIZACION DE CO₂', Competitivo, 01/01/2016-31/12/2018

Responsable CARLOS MANUEL RODRÍGUEZ NAVARRO

Responsable ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Renovación del equipo LA ICP-MS del Centro de Instrumentación Científica, Universidad de Granada, Competitivo, 01/01/2016-31/12/2018

Responsable FERNANDO BEA BARREDO

- 2016 Renovación de Equipo de Fluorescencia de Rayos X, Competitivo, 01/01/2016-31/12/2018

Responsable MARIA TERESA GOMEZ PUGNAIRE

- 2016 Micro-tomógrafo de Rayos X de alta resolución (Microscopio de Rayos X tridimensional), Competitivo, 01/01/2016-31/12/2017

Responsable CARLOS MANUEL RODRÍGUEZ NAVARRO

- 2016 Implantación de Técnicas Específicas de Alta Resolución, en la Unidad de Preparación de Muestras mediante Técnicas Especiales para Microscopía, Competitivo, 01/01/2016-31/12/2018

Responsable ANTONIO SÁNCHEZ NAVAS

- 2016 Equipo de difracción de rayos X para microdifracción y difusión a bajo ángulo, Competitivo, 01/01/2016-31/12/2017

Responsable ALEJANDRO RODRIGUEZ NAVARRO

- 2016 ESTRATEGIAS BIOMIMETICAS PARA LA CAPTURA ACELERADA DE CO₂ MEDIANTE ALTERACION Y CARBONATACION DE SILICATOS, Competitivo, 01/09/2016-31/08/2017

Responsable ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 OPTIMIZACION EN LA PRODUCCION DE LADRILLOS MEDIANTE LA ADICION DE RESIDUOS INDUSTRIALES, Competitivo, 30/12/2016-29/12/2019

Investigador/a EDUARDO M. SEBASTIÁN PARDO

Responsable GIUSEPPE CULTRONE

- 2016 'EVENTOS Y PALEOGEOGRAFIA DURANTE LA EVOLUCION ALPINA Y PRE-ALPINA DE LAS ZONAS INTERNAS BETICAS, DOMINIOS ADYACENTES Y EQUIVALENTES PERIMEDITERRANEOS', Competitivo, 30/12/2016-29/12/2019

Investigador/a NICOLAS VELILLA SANCHEZ

Responsable ANTONIO SÁNCHEZ NAVAS

Investigador/a FERNANDO NIETO GARCÍA

- 2016 MODIFICACION Y REFERTILIZACION DEL MANTO LITOSFERICO: IMPLICACIONES PARA LA MOVILIDAD Y CONCENTRACION DE MATERIAS PRIMAS CRITICAS, Competitivo, 30/12/2016-29/12/2019

Investigador/a FERNANDO GERVILLA LINARES

Responsable CLAUDIO MARCHESI

- 2016 DIAMANTE, CIRCÓN Y OTROS MINERALES 'EXÓTICOS' EN CROMITITAS OFIOLÍTICAS Y ROCAS ASOCIADAS. IMPLICACIONES PARA LA GEODINÁMICA MANTÉLICA, , 01/01/2016-31/12/2019

Investigador/a ANTONIO GARCIA CASCO

- 2016 Centro de Excelencia en Geotermia de los Andes, , 01/01/2016-31/01/2020

Participante JOSE MARÍA GONZÁLEZ JIMÉNEZ

Contratos de investigación

- 2016 Análisis de la calidad de la cáscara de huevo y de tejido óseo en gallinas en el marco del Proyecto OVOFORTIS., , 01/12/2016-31/08/2018

Responsable ALEJANDRO RODRIGUEZ NAVARRO

Publicaciones en revistas

- 2017 Articulo: Aquatic toxicity and biodegradability of a surfactant produced by Bacillus subtilis ICA56, Journal



- of Environmental Science and Health Part A, , , 1-8
ALEJANDRO BURGOS CARA
- 2017 Articulo: Sr-Nd-Pb isotopic systematics of crustal rocks from the western Betics (S. Spain): Implications for crustal recycling in the lithospheric mantle beneath the westernmost Mediterranean, *Lithos*, 276, , 45-61
CLAUDIO MARCHESI
- 2017 Articulo: Effects of lime treatments on marls, *Applied Clay Science*, 135, , 611-619
FERNANDO NIETO GARCÍA
KERSTIN ELERT
- 2017 Articulo: Magnetite nanoparticles biomineralization in the presence of the magnetosome membrane protein MamC: Effect of protein aggregation and protein structure on magnetite formation, *Crystal Growth and Design*, 17, , 1620-1629
ALEJANDRO RODRIGUEZ NAVARRO
- 2017 Articulo: 16S rRNA gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor, *Applied microbiology and biotechnology*, 101, , 817-829
JOSÉ DANIEL MARTÍN RAMOS
- 2017 Articulo en prensa: Effect of pigment size on the physico-chemical susceptibility of azurite-tempera dosimeters to natural and artificial UV aging, *Dyes and Pigments*, , , -
CAROLINA CARDELL FERNANDEZ
- JUAN AGUSTIN HERRERA RUBIA
- 2017 Articulo: Gypsum crust as a source of calcium for the consolidation of carbonate stones using a calcium phosphate-based consolidant, *Construction and Building Materials*, 143, , 298-311
ALEJANDRO BURGOS CARA
- ENCARNACIÓN MARÍA RUIZ AGUDO
GIUSEPPE CULTRONE
- 2017 Articulo: The combined use of spectroscopic techniques for the characterization of Late Roman common wares from Benevento (Italy), *Measurement: Journal of the International Measurement Confederation*, , , -
GIUSEPPE CULTRONE
- 2017 Articulo: Different shades of red: the complexity of mineralogical and physic-chemical factors influencing the colour of ceramics, *Ceramics International*, 43, , 8065-8074
GIUSEPPE CULTRONE
- 2017 Articulo: Study of the conservation status of the plasterwork of the Oratory of the Madrasah of Granada. Identification, evaluation and analysis, *Informes de la Construcción*, 69, 545,e175, 1-11
EDUARDO M. SEBASTIÁN PARDO
- 2017 Articulo en prensa: Insights into petrogenesis of the Jálama pluton (Central Iberian Zone, western Spain), *International Geology Review*, , , -
JOSE TORRES RUIZ
- 2017 Articulo: Petrogenesis of meta-volcanic rocks from the Maimón Formation (Dominican Republic): Geochemical record of the nascent Greater Antilles paleo-arc, *Lithos*, , , 255-273
ANTONIO GARCIA CASCO
- 2017 Articulo: Trace-element geochemistry of transform-fault serpentinite in high-pressure subduction mélange (eastern Cuba): implications for subduction initiation, *International Geology Review*, , , 1-24
ANTONIO GARCIA CASCO
- 2017 Articulo: Hot subduction in the middle Jurassic and partial melting of oceanic crust in Chilean Patagonia, *Gondwana Research*, 42, , 104-125
ANTONIO GARCIA CASCO
- 2017 Articulo: Principal Component Analysis to interpret changes in chromatic parameters on paint dosimeters exposed long-term to urban air, *Chemometrics and Intelligent Laboratory Systems*, , , -
CAROLINA CARDELL FERNANDEZ
- JUAN AGUSTIN HERRERA RUBIA
- 2017 Articulo: Multi-stage evolution of the lithospheric mantle beneath the westernmost Mediterranean: Geochemical constraints from peridotite xenoliths in the eastern Betic Cordillera (SE Spain), *Lithos*, 276, , 75-89
CLAUDIO MARCHESI
- 2017 Articulo: Geochronological and geochemical evidences for extension-related Neoarchean granitoids in the southern São Francisco Craton, Brazil, *Precambrian Research*, 294, , 322-343
JUAN ANTONIO MORENO MORENO
- 2017 Articulo en prensa: Geochemistry of komatiites and basalts from the Rio das Velhas and Pitangui greenstone belts, São Francisco Craton, Brazil: Implications for the origin, evolution, and tectonic setting, *Lithos*, , , -
JUAN ANTONIO MORENO MORENO
- 2017 Articulo: The role of silica in the hydrous metamorphism of chromite, *Ore Geology Reviews*, , , -
FERNANDO GERVILLA LINARES



JOSE MARÍA GONZÁLEZ JIMÉNEZ

- 2017 Artículo: Palaeogeography and crustal evolution of the Ossa-Morena Zone, southwest Iberia, and the North Gondwana margin during the Cambro-Ordovician: a review of isotopic evidence., International Geology Review, 59, , 94-130

CONCEPCION LAZARO CALISALVO

FERNANDO BEA BARREDO

JANE HANNAH SCARROW

MARIA PILAR GONZALEZ MONTERO

- 2017 Artículo: Artificial porous stone from of ornamental rock waste adaptable for civil construction and heritage restoration. Piedra artificial porosa a partir de residuos de rocas ornamentales adaptable a obras de construcción y restauración patrimonial, Boletín Geológico y Minero, 128, 2, 677-688

ANTONIO GARCIA CASCO

- 2017 Artículo: Crystal chemistry and structural characterization of natural Cr-spinels, Bulgarian Chemical Communications, 49, , 7-20

FERNANDO GERVILLA LINARES

- 2017 Artículo: Mineralogical and Geochemical Features of the Alteration Processes of Magmatic Ores in the Beni Bousera Ultramafic Massif (North Morocco), Journal of African Earth Sciences, 132, , 47-63

FERNANDO GERVILLA LINARES

- 2017 Artículo: Zircon recycling and crystallization during formation of chromite-and Ni-arsenide ores in the subcontinental lithospheric mantle (Serranía de ronda, Spain), Ore Geology Reviews, , , -

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FERNANDO GERVILLA LINARES

JOSE MARÍA GONZÁLEZ JIMÉNEZ

- 2017 Artículo: Ti-clinohumite and Ti-chondrodite in antigorite serpentinites from Central Chile: evidence for deep and cold subduction, European Journal Of Mineralogy (Print), , , -

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JOSE MARÍA GONZÁLEZ JIMÉNEZ

- 2017 Artículo: Petrogenesis of meta-volcanic rocks from the Maimón Formation (Dominican Republic): Geochemical record of the nascent Greater Antilles paleo-arc, Lithos, , , 255-273

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- 2017 Artículo: Decoding recent mud-volcano activity in the westernmost Mediterranean: Evidence from sediment/porewater data and geochemical modeling, Geophysical Research Abstracts, 19, , 11175-

FERNANDO NIETO GARCÍA

- 2017 Artículo: How phyllosilicate mineral structure affects fault strength in Mg-rich fault systems, Geophysical Research Letters, 44, , -

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- 2017 Artículo: Pigment-size effect on the physico-chemical behavior of azurite/tempera dosimeters upon natural and accelerated photo aging, Dyes And Pigments (Print), 141, , 53-65

CAROLINA CARDELL FERNANDEZ

JUAN AGUSTIN HERRERA RUBIA

KERSTIN ELERT

- 2017 Artículo: Influence of pH and citrate on the formation of oxalate layers on calcite revealed by in situ nanoscale imaging, CrystEngComm [electronic resource], , , -

ALEJANDRO BURGOS CARA

ENCARNACIÓN MARÍA RUIZ AGUDO

MIGUEL ORTEGA HUERTAS

- 2016 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

ANNA ARIZZI

GIUSEPPE CULTRONE

- 2016 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, 6, , 117-124

JUAN AGUSTIN HERRERA RUBIA

- 2016 Review: An overview of emerging hyphenated SEM-EDX, Trends in Analytical Chemistry, 77, , 156-166

CAROLINA CARDELL FERNANDEZ

- 2016 Artículo: Unconventional non-magmatic sulfur source for the Mazarrón Zn-Pb-Cu-Ag-Fe epithermal deposit (SE Spain), Ore Geology Reviews, 72, , 1102-1115

FRANCISCO VELASCO ROLDÁN

IÑAKI ESTEBAN ARISPÉ

SALVADOR MORALES RUANO

- 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
SALVADOR MORALES RUANO
- 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-a, *Ore Geology Reviews*, 72, , 794-817
- ANTONIO GARCIA CASCO
- 2016 Artículo: Devonian magmatism in the Timan Range, Arctic Russia - subduction, post-orogenic extension, or rifting?, *Tectonophysics*, 691, , 185-197
- JANE HANNAH SCARROW
- 2016 Artículo: Petrogenesis and 40Ar/39Ar 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*, , , -
- ANTONIO GARCIA CASCO
- CONCEPCION LAZARO CALISALVO
- IDAEL FRANCISCO BLANCO QUINTERO
- 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
- ANTONIO GARCIA CASCO
- CONCEPCION LAZARO CALISALVO
- 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
- FERNANDO NIETO GARCÍA
- 2016 Artículo: CHEMICAL AND TEXTURAL CONTROLS ON THE FORMATION OF SEPIOLITE, PALYGORSKITE AND DOLOMITE IN VOLCANIC SOILS, *Geoderma* (Amsterdam), 271, , 99-114
- ANTONIO GARCIA CASCO
- ANTONIO SÁNCHEZ NAVAS
- 2016 Artículo: Direct nanoscale imaging reveals the growth of calcite crystals via amorphous nanoparticles, *Crystal Growth and Design*, 16, 4, 1850-1860
- ALEJANDRO BURGOS CARA
- CARLOS MANUEL RODRÍGUEZ NAVARRO
- ENCARNACIÓN MARÍA RUIZ AGUDO
- KERSTIN ELERT
- 2016 Artículo: Exploring the effect of poly(acrylic acid) on pre- and post-nucleation BaSO₄ species: new insights into the mechanisms of crystallization control by polyelectrolytes, *CrystEngComm*, , , -
- ALEJANDRO BURGOS CARA
- AURELIA MARÍA IBÁÑEZ VELASCO
- CARLOS MANUEL RODRÍGUEZ NAVARRO
- ENCARNACIÓN MARÍA RUIZ AGUDO
- 2016 Artículo: Hydration effects on gypsum dissolution revealed by in situ nanoscale atomic force microscopy observations, *Geochimica Et Cosmochimica Acta*, 179, , 110-122
- ALEJANDRO BURGOS CARA
- CARLOS MANUEL RODRÍGUEZ NAVARRO
- ENCARNACIÓN MARÍA RUIZ AGUDO
- 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
- JUAN AGUSTIN HERRERA RUBIA
- 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*, , , 219-226
- GIUSEPPE CULTRONE
- 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
- ANTONIO SÁNCHEZ NAVAS
- 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, 337-353
- ANTONIO SÁNCHEZ NAVAS
- 2016 Artículo: SAHARAN DUST OUTBREAKS AND IBERULITE EPISODES, *Journal of Geophysical Research*, 121, , 1-15
- ANTONIO SÁNCHEZ NAVAS
- 2016 Artículo: Muddy and dolomitic rip-up clasts in Triassic fluvial sandstones: origin and impact on potential reservoir properties (Argana Basin, Morocco), *Sedimentary Geology*, 339, , 218-233
- GIUSEPPE CULTRONE
- 2016 Artículo: Porosity generated during the fluid-mediated replacement of calcite by fluorite, *CrystEngComm*



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ALEJANDRO BURGOS CARA

- 2016 Artículo: Fibrous clay mineral authigenesis induced by fluid-rock interaction in the Galera fault zone (Betic Cordillera, SE Spain) and its influence on fault gouge frictional properties, *Applied Clay Science*, 135, , 275-288

FERNANDO NIETO GARCÍA

- 2016 Artículo: Combined multi-analytical approach for study of pore system in bricks: how much porosity is there?, *Materials Characterization*, 121, , 82-92

GIUSEPPE CULTRONE

- 2016 Artículo: The art of building in the Roman period (89 B.C. & 79 A.D.): Mortars, plasters and mosaic floors from ancient Stabiae (Naples, Italy), *Construction and Building Materials*, 117, , 129-143

ANNA ARIZZI

GIUSEPPE CULTRONE

- 2016 Artículo: Crystallographic Control in the Replacement of Calcite by Calcium Sulfates, *Crystal Growth and Design*, 16, 9, 4950-4959

AURELIA MARÍA IBÁÑEZ VELASCO

ENCARNACIÓN MARÍA RUIZ AGUDO

MIGUEL ORTEGA HUERTAS

PEDRO DOMINGO ÁLVAREZ LLORET

- 2016 Artículo: Effectiveness of oxalic acid treatments for the protection of marble surfaces, *Materials & Design*, 115, , 82-92

ALEJANDRO BURGOS CARA

CARLOS MANUEL RODRÍGUEZ NAVARRO

ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Artículo: Control of silicate weathering by interface-coupled dissolution-precipitation processes at the mineral-solution interface, *Geology (Boulder, Colo.)*, 44, , 567-570

CARLOS MANUEL RODRÍGUEZ NAVARRO

ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Artículo: Non classical crystallization in vivo et in vitro (I): nongranular features in biomimetic minerals disclose a general colloid-mediated crystal growth mechanism, *Journal of Structural Biology*, 196, , 260-287

CARLOS MANUEL RODRÍGUEZ NAVARRO

ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Artículo: Use of industrial ceramic sludge in brick production: effect on aesthetic quality and physical properties, *Construction and Building Materials*, 124, , 219-227

GIUSEPPE CULTRONE

- 2016 Artículo: Mineralogical evidence for lamproite magma mixing and storage at mantle depths: Socovos fault lamproites, SE Spain, *Lithos*, , , 182-201

ANTONIO GARCIA CASCO

FERNANDO BEA BARREDO

JANE HANNAH SCARROW

- 2016 Artículo: Effect of ferrous iron on the nucleation and growth of CaCO₃ in slightly basic aqueous solutions, *CrystEngComm*, 2, 2, 303-

ALEJANDRO BURGOS CARA

ENCARNACIÓN MARÍA RUIZ AGUDO

- 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

CAROLINA CARDELL FERNANDEZ

JUAN AGUSTIN HERRERA RUBIA

- 2016 Artículo en prensa: Flow in the western Mediterranean shallow mantle: Insights from xenoliths in Pliocene alkali basalts from SE Iberia (eastern Betics, Spain), *Tectonics*, 35, , 2657-2676

FERNANDO GERVILLA LINARES

- 2016 Artículo: Ni-phyllosilicates (garnierites) from the Falcondo Ni-laterite deposit (Dominican Republic): Mineralogy, nanotextures, and formation mechanisms by HRTEM and AEM, *The American Mineralogist*, 101, , 1460-1473

FERNANDO NIETO GARCÍA

- 2016 Artículo: A MULTIPLE REGRESSION METHOD FOR ESTIMATING LI IN TOURMALINE FROM ELECTRON MICROPROBE ANALYSES, *Mineralogical Magazine*, 80, 6, 1129-1133

JOSE TORRES RUIZ

- 2016 Artículo: Chlorite geothermometry applied to massive and oscillatory-zoned radiated Mn-rich chlorites in the Patricia Zn-Pb-Ag epithermal deposit (NE, Chile, *Applied Clay Science*, 134, , 210-220

FERNANDO NIETO GARCÍA

- 2016 Artículo: Illitization sequence controlled by temperature in volcanic geothermal systems: The Tinguiririca geothermal field, Andean Cordillera, Central Chile, *Applied Clay Science*, 134, , 221-234



FERNANDO NIETO GARCÍA

- 2016 Artículo: SEM and TEM evidence of mixed-layer illite-smectite formed by dissolution-crystallization processes in continental Paleogene sequences in northwestern Argentina, *Clay Minerals*, 51, , 723-740

FERNANDO NIETO GARCÍA

- 2016 Artículo: Effect of 30% hydrogen peroxide on mineral chemical composition and surface morphology of bovine enamel, *Odontology - The Society of the Nippon Dental University*, 104, 1, 44-52

ALEJANDRO RODRIGUEZ NAVARRO

- 2016 Artículo: Biomineralization changes with food supply confer juvenile scallops (*Argopecten purpuratus*) resistance to ocean acidification, *GLOBAL CHANGE BIOLOGY*, 22, , 2025-2037

ALEJANDRO RODRIGUEZ NAVARRO

- 2016 Artículo: A potentiometric study of the performance of a commercial copolymer in the precipitation of scale forming minerals, *CrystEngComm*, 18, , 3830-3842

AURELIA MARÍA IBÁÑEZ VELASCO

ENCARNACIÓN MARÍA RUIZ AGUDO

- 2016 Artículo: Amorphous and crystalline calcium carbonate phases during carbonation of nanolimes:

Implications in heritage conservation, *CrystEngComm* [electronic resource], 18, , 6594-6607

CARLOS MANUEL RODRÍGUEZ NAVARRO

KERSTIN ELERT

- 2016 Artículo: Eclogite-, amphibolite- and blueschist-facies rocks from Diego de Almagro Island (Patagonia): Episodic accretion and thermal evolution of the Chilean subduction interface during the Cretaceous,

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ANTONIO GARCIA CASCO

- 2016 Artículo: High-pressure greenschist to blueschist facies transition in the Maimón Formation (Dominican Republic) suggests mid-Cretaceous subduction of the Early Cretaceous Caribbean arc, *Lithos*, , , 309-331

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