



Geodinámica

Áreas de conocimiento: Geodinámica externa, Geodinámica interna

Director: José Miguel Azañón Hernández

Secretario: Manuel López Chicano

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

Profesorado: CU:12, PTU: 4, PTEU: 0, PDI Contratado y Otros: 5

Tesis leídas

- Recent and active tectonics of the central-eastern Betic Cordillera Internal Zone and comparison with the External Zone Front

Doctorando: Manuel Martínez Martos.

Director: Jesús Galindo Zaldívar.

Fecha de lectura: 28 de marzo de 2017.

- Terranes affinity and Variscan transpressional evolution of Rheic-related units in SW Iberia

Doctoranda: Irene Pérez Cáceres.

Director: David Jesús Martínez Poyatos.

Fecha de lectura: 7 de abril de 2017.

Grupos de Investigación.

RNM376 DINÁMICA DE ORÓGENOS Y CUENCAS

- Responsable: JUAN IGNACIO SOTO HERMOSO

RNM148 GEOLOGIA ESTRUCTURAL Y TECTONICA

- Responsable: JOSÉ MIGUEL AZAÑÓN HERNANDEZ

RNM369 GEOLOGÍA SEDIMENTARIA Y AGUAS SUBTERRÁNEAS

- Responsable: MARÍA LUISA CALVACHE QUESADA

RNM126 GRUPO DE INVESTIGACION DE RECURSOS HIDRICOS

- Responsable: JOSE JAVIER CRUZ SAN JULIÁN

RNM122 RSGIS -TELEDETECCIÓN ESPACIAL, SIG Y GEOESTADÍSTICA-

- Responsable: MARIO CHICA OLMO

RNM215 TECTONICA Y GEOLOGIA MARINA

- Responsable: MARÍA DEL CARMEN COMAS MINONDO

Dirección y participación en Proyectos I+D

- 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

Investigador/a ANTONIO AZOR PEREZ

Investigador/a JOSÉ FERNANDO SIMANCAS CABRERA

Investigador/a ANTONIO JABALOY SANCHEZ

Investigador/a FRANCISCO GONZALEZ LODEIRO

Participante ANTONIO PEDRERA PARIAS

Participante IRENE PÉREZ CÁCERES

Investigador/a CRISTINA ACCOTTO

Responsable DAVID JESUS MARTINEZ POYATOS

- 2016 Respuesta de la topografía y la red de drenaje a procesos litosféricos y climáticos en el Sur de Iberia (LITHOSURF), , 01/01/2016-31/12/2019

Responsable JOSE VICENTE PÉREZ PEÑA

Investigador/a JOSÉ MIGUEL AZAÑÓN HERNANDEZ

Investigador/a JOSÉ MIGUEL MARTÍNEZ MARTÍNEZ

Investigador/a PATRICIA RUANO ROCA

- 2016 Técnicas de interferometría radar de satélite para el estudio de fenómenos de subsidencia en diversas zonas de la península ibérica, , 01/04/2016-31/12/2017

Investigador/a JESUS GALINDO ZALDIVAR

- 2016 Desarrollo metodológico para caracterizar el impacto del cambio climático en terrenos kársticos: condicionantes geológicos y efectos en los recursos hídricos y medio ambiente, , 01/01/2016-01/01/2019

Responsable EULOGIO PARDO IGUZQUIZA

- 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 ANTONIO JABALOY SANCHEZ

- 2016 'RESPUESTA DE LA TOPOGRAFIA Y LA RED DE DRENAGE A PROCESOS LITOSFERICOS Y CLIMATICOS EN EL SUR DE IBERIA', Competitivo, 01/01/2016-31/12/2019

Investigador/a PATRICIA RUANO ROCA

Responsable GUILLERMO BOOTH REA



Responsable JOSE VICENTE PÉREZ PEÑA

Investigador/a JOSÉ MIGUEL AZAÑÓN HERNANDEZ

- 2016 LOS TERRENOS FORMADORES DE PANGEA ENTRE EL SUR DE IBERIA Y EL NORTE DE MARRUECOS: CORRELACION PALEOGEOGRAFICA Y EVOLUCION TECTONICA, Competitivo, 01/01/2016-31/12/2018

Investigador/a ANTONIO JABALOY SANCHEZ

- 2016 RESPUESTA DEL ACUIFERO COSTERO MOTRIL-SALOBREÑA AL CAMBIO CLIMATICO Y A LOS CAMBIOS DE USO DEL SUELO, Competitivo, 30/12/2016-29/12/2020

Investigador/a JOSE BENAVENTE HERRERA

Responsable MARÍA LUISA CALVACHE QUESADA

Responsable MANUEL LÓPEZ CHICANO

- 2016 DEFORMACION ACTIVA Y RECIENTE A TRAVES DEL SECTOR CENTRAL DE LAS CORDILLERAS BETICO-RIFEÑAS Y MAR DE ALBORAN: FACTORES DE RIESGO GEOLOGICO, Competitivo, 30/12/2016-29/12/2019

Responsable JESUS GALINDO ZALDIVAR

Participante ANTONIO PEDRERA PARIAS

Participante FRANCISCO JOSE MARTINEZ MORENO

Investigador/a DOMINGO AERDEN

Contratos de investigación

- 2016 Field Campus on Extensional Tectonics, ARTÍCULO 83 LOU, 01/09/2016-31/12/2017

Investigador/a JUAN IGNACIO SOTO HERMOSO

Publicaciones en revistas

- 2017 Articulo: Testing the Avalonian affinity of the South Portuguese Zone and the Neoproterozoic evolution of SW Iberia through detrital zircon populations, Gondwana Research, 42, , 177-192

ANTONIO AZOR PEREZ

DAVID JESUS MARTINEZ POYATOS

IRENE PÉREZ CÁCERES

JOSÉ FERNANDO SIMANCAS CABRERA

- 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

GUILLERMO BOOTH REA

- 2017 Articulo: Latest extension of the Laujar fault in a convergence setting (Sierra Nevada, Betic Cordillera), Journal Of Geodynamics (Online), 104, , 15-26

FRANCISCO JOSE MARTINEZ MORENO

JESUS GALINDO ZALDIVAR

JOSÉ MIGUEL AZAÑÓN HERNANDEZ

PATRICIA RUANO ROCA

- 2017 Articulo: Superposition of tectonic structures leading elongated intramontane basin: the Alhabia basin (Internal Zones, Betic Cordillera), International Journal of Earth Sciences, 104, , 15-26

FRANCISCO JOSE MARTINEZ MORENO

JESUS GALINDO ZALDIVAR

- 2017 Articulo: Effects of lime treatments on marls, Applied Clay Science, 135, , 611-619

JOSÉ MIGUEL AZAÑÓN HERNANDEZ

- 2017 Articulo: A MULTI-METHOD APPROACH FOR THE CHARACTERIZATION OF LANDSLIDES IN AN INTRAMONTANE BASIN IN THE ANDES (LOJA, ECUADOR), Landslides, , , 1-19

JOSÉ MIGUEL AZAÑÓN HERNANDEZ

- 2017 Articulo en prensa: The Padul normal fault activity constrained by GPS data: Brittle extension orthogonal to folding in the central Betic Cordillera, Tectonophysics, , , -

JESUS GALINDO ZALDIVAR

- 2017 Articulo: Cambios en la calidad del agua subterránea debidos a la explotación intensiva del acuífero carbonático de la Sierra de Humilladero (Málaga, España), Geogaceta, 62, , 1-5

ANTONIO PEDRERA PARIAS

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

MARÍA DEL CARMEN COMAS MINONDO

- 2017 Articulo en prensa: A multi-method approach for the characterization of landslides in an intramontane basin in the Andes (Loja, Ecuador), Landslides, , , -

JOSÉ MIGUEL AZAÑÓN HERNANDEZ

- 2017 Articulo: Integration of multi-criteria and nearest neighbour analysis with kernel density functions for improving sinkhole susceptibility models: the case study of Enemonzo (NE Italy), International Journal of

Speleology, 46, , 191-204

JOSE VICENTE PÉREZ PEÑA



- 2017 Artículo en prensa: Flow reversals in groundwater-lake interactions: A multi-tracer study using water stable isotopes and temperature, Limnologica, , , -
CARLOS DUQUE
- 2017 Artículo en prensa: Deformation style and controlling geodynamic processes at the eastern Guadalquivir foreland basin (S Spain), Tectonics, , , -
ANTONIO PEDRERA PARIAS
- 2017 Artículo: Pore pressure and stress regime in a thick extensional basin with active shale diapirism (Western Mediterranean), AAPG Bulletin, 101, 2, 233-264
JUAN IGNACIO SOTO HERMOSO
- 2016 Artículo: The Gruta de las Maravillas (Aracena, South-West Iberia): Setting and origin of a cave in marbles from dissolution of pyrite, Geomorphology, 253, , 239-250
ANTONIO AZOR PEREZ
- ANTONIO PEDRERA PARIAS
- FRANCISCO JOSE MARTINEZ MORENO
- JESUS GALINDO ZALDIVAR
- MANUEL LÓPEZ CHICANO
- PATRICIA RUANO ROCA
- WENCESLAO MARTÍN ROSALES
- 2016 Artículo: A MULTIDISCIPLINARY CHARACTERIZATION OF A TAILINGS POND IN THE LINARES-LA CAROLINA MINING DISTRICT, SPAIN, Journal of Geochemical Exploration, 162, 162, 62-71
JOSE BENAVENTE HERRERA
- 2016 Artículo: Multi-temporal InSAR evidence of ground subsidence induced by groundwater withdrawal: the Montellano aquifer (SW Spain), Environmental Earth Sciences, 75, 242, 1-16
JESUS GALINDO ZALDIVAR
- 2016 Artículo: Oblique collision and deformation partitioning in the SW Iberian Variscides, Solid Earth, 7, , 857-872
ANTONIO AZOR PEREZ
- DAVID JESUS MARTINEZ POYATOS
- FRANCISCO GONZALEZ LODEIRO
- IRENE PÉREZ CÁCERES
- JOSÉ FERNANDO SIMANCAS CABRERA
- 2016 Artículo: Comment on "The Late Devonian Variscan suture of the Iberian Massif: A correlation of high-pressure belts in NW and SW Iberia. Tectonophysics 654, 96-100" by R. Fernández and R. Arenas, Tectonophysics, 666, , 281-284
ANTONIO AZOR PEREZ
- DAVID JESUS MARTINEZ POYATOS
- FRANCISCO GONZALEZ LODEIRO
- IRENE PÉREZ CÁCERES
- JOSÉ FERNANDO SIMANCAS CABRERA
- 2016 Artículo: The combined use of PSInSAR and UAV photogrammetry techniques for the analysis of the kinematics of a coastal landslide affecting an urban area (SE Spain), Landslides, , , -
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- JOSE VICENTE PÉREZ PEÑA
- 2016 Artículo: Collapse susceptibility map in abandoned mining areas by microgravity survey: A case study in Candado hill (Málaga, southern Spain), Journal of Applied Geophysics, 130, , 101-109
FRANCISCO JOSE MARTINEZ MORENO
- JESUS GALINDO ZALDIVAR
- JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- 2016 Artículo: Water prospection in volcanic islands by Time Domain Electromagnetic (TDEM) surveying: The case study of the islands of Fogo and Santo Antão in Cape Verde, Journal of Applied Geophysics, 134, , 226-234
FRANCISCO JOSE MARTINEZ MORENO
- 2016 Artículo: Serpentinization-driven extension in the Ronda mantle slab (Betic Cordillera, S Spain), Gondwana Research, 37, , 205-215
ANTONIO AZOR PEREZ
- ANTONIO PEDRERA PARIAS
- JESUS GALINDO ZALDIVAR
- 2016 Artículo: Buried marine-cut terraces and submerged marine-built terraces: The Carchuna-Calahonda coastal area (southeast Iberian Peninsula), Geomorphology (Amsterdam), 264, , 29-40
ANTONIO PEDRERA PARIAS
- JESUS GALINDO ZALDIVAR
- MANUEL LÓPEZ CHICANO
- PATRICIA RUANO ROCA



- 2016 Artículo: Quaternary tectonic activity in NW Jordan: Insights for a new model of transpression-transpression along the southern Dead Sea Transform Fault, *Tectonophysics*, , , -
GUILLERMO BOOTH REA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
JOSE VICENTE PÉREZ PEÑA
MOHAMMAD AL AWABDEH
- 2016 Artículo: Stress analysis of NW Jordan: New episode of tectonic rejuvenation related to the Dead Sea transform fault, *Arabian journal of geosciences*, 9, 4, 1-11
GUILLERMO BOOTH REA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
JOSE VICENTE PÉREZ PEÑA
- 2016 Artículo: Megafan formation driven by explosive volcanism and active tectonic processes in a humid tropical environment, *Terra Nova*, 28, 6, 427-433
GUILLERMO BOOTH REA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
JOSE VICENTE PÉREZ PEÑA
- 2016 Artículo: Preface to the " Deep Seismix-2014" special issue, *Tectonophysics*, 689, , 1-3
GUILLERMO BOOTH REA
- 2016 Artículo en prensa: SwathProfiler and NProfiler: Two new ArcGIS Add-ins for the automatic extraction of swath and normalized river profiles, *Computers & Geosciences*, , , -
GUILLERMO BOOTH REA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
JOSE VICENTE PÉREZ PEÑA
- 2016 Artículo: Nonparametric Estimation to Reconstruct the Deformation History of an Active Fold in the Caspian Basin, *Mathematical Geosciences*, 48, 8, 985-1011
JUAN IGNACIO SOTO HERMOSO
- 2016 Artículo: A methodology for assessing public health risk associated with groundwater nitrate contamination: a case study in an agricultural setting (southern Spain), *Environmental Geochemistry and Health*, , , 1-16
MARIO CHICA OLMO
- 2016 Artículo: Morphometric analysis of karst depressions on a mediterranean karst massif, *Geografiska Annaler, Series A: Physical Geography*, 98, , 247-263
EULOGIO PARDO IGUZQUIZA
MANUEL LÓPEZ CHICANO
- 2016 Artículo: Kinematics and geomorphology of the Algodonales - Badolatosa shear zone at the fold-and-thrust belt of the western Subbetics, *Geotemas*, 16, 2, 557-560
JUAN CARLOS BALANYÁ ROURE
- 2016 Artículo: El sistema kárstico de la Sierra de las Nieves (Málaga, España). Un ejemplo de un karst mediterráneo de relieve alto, *Boletín Geológico y Minero*, 127, 1, 193-204
EULOGIO PARDO IGUZQUIZA
- 2016 Artículo: Estimación geoestadística del contenido en manganeso en suelos y su relación con las aguas subterráneas en España, *Geogaceta*, 59, 59, 79-82
EULOGIO PARDO IGUZQUIZA
- 2016 Artículo: Quantifying spatio-temporal variation of leaf chlorophyll and nitrogen contents in vineyards, *Biosystems Engineering*, 150, , 201-213
MARIO CHICA OLMO
- 2016 Artículo: Spectral analysis of time series of categorical variables in Earth Science, *Computers & Geosciences*, 95, , 99-104
EULOGIO PARDO IGUZQUIZA
- 2016 Artículo: Spectral analysis of Toarcian sediments from the Valdorbia Section (Umbria-Marche Apennines): The astronomical input in the foraminiferal record., *Rivista Italiana di Paleontologia e Stratigrafia (Research in Paleontology and Stratigraphy)*, 122, 2, 45-60
EULOGIO PARDO IGUZQUIZA
- 2016 Artículo: Spectral analysis of times series of categorical variables in earth sciences, *Computers and Geosciences*, 95, , 99-104
EULOGIO PARDO IGUZQUIZA
- 2016 Artículo: Clues for a Tortonian reconstruction of the Gibraltar Arc: Structural pattern, deformation diachronism and block rotations, *Tectonophysics*, 683, , 308-324
ANA CRESPO BLANC
- 2016 Artículo: Stabilisation of clayey and marly soils using industrial wastes: pH and laser granulometry indicators, *Engineering Geology*, 200, , 10-17
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- 2016 Artículo: Lithological control of land subsidence induced by groundwater withdrawal in new urban AREAS



- (Granada Basin, SE Spain). Multiband DInSAR monitoring, *Hydrological Processes: An International Journal*, 30, , 2317-2331
- JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- 2016 Artículo: Changes in dip and frictional properties of the basal detachment controlling orogenic wedge propagation and frontal collapse: The external central Betics case, *Tectonics*, 35, , 3028-3049
- JUAN CARLOS BALANYÁ ROURE
- 2016 Artículo: Miocene deformation front propagation and strain partitioning within the fold-and-thrust belt of the Central Betics (Gibraltar Arc orogenic system), *Geogaceta*, 59, , 23-26
- ANA CRESPO BLANC
- JUAN CARLOS BALANYÁ ROURE
- 2016 Artículo: Analogue modelling of inclined, brittle-ductile transpression: Testing analytical modelling through natural shear zones (External Betics), *Tectonophysics*, 682, , 169-185
- JUAN CARLOS BALANYÁ ROURE
- 2016 Artículo: Filtering methods in tidal-affected groundwater head measurements: Application of harmonic analysis and continuous wavelet transform, *Advances in water resources*, 97, , 52-72
- MANUEL LÓPEZ CHICANO
- MARÍA LUISA CALVACHE QUESADA
- 2016 Artículo: Evaluation of Analytical Methods to Study Aquifer Properties with Pumping Tests in Coastal Aquifers with Numerical Modelling (Motril-Salobreña Aquifer), *Water Resources Management*, 30, 2, 559-575
- CARLOS DUQUE
- MANUEL LÓPEZ CHICANO
- MARÍA LUISA CALVACHE QUESADA
- 2016 Artículo: Metamorphic record of the NW Himalayan orogeny between the Indian plate-Kohistan Ladakh Arc and Asia: Revelations from foliation intersection axis (FIA) controlled P-T-t-d paths, *Tectonophysics*, 671, , 110-126
- DOMINGO AERDEN
- 2016 Artículo: Applying piezometric evolution indicators to facilitate stakeholder's participation in the management of groundwater-dependent ecosystems. Case study: Fuente de Piedra playa lake (southern Spain), *Hydrobiologia: The International Journal of Aquatic Sciences*, 782, , 145-154
- ANTONIO PEDRERA PARIAS
- 2016 Artículo: Hydrogeological behaviour of the Fuente-de-Piedra playa lake and tectonic origin of its basin (Malaga, southern Spain), *Journal of Hydrology*, 543, , 462-476
- ANTONIO PEDRERA PARIAS
- 2016 Artículo: Unravelling aquifer-wetland interaction using CSAMT and gravity methods: the Mollina-Camorra aquifer and the Fuente de Piedra playa-lake, southern Spain, *Journal of Applied Geophysics*, 129, , 17-27
- ANTONIO PEDRERA PARIAS
- JESÚS GALINDO ZALDIVAR
- JOSE BENAVENTE HERRERA
- 2016 Artículo: Hydrogeological characterization of the Salinas-Los Hoyos evaporitic karst (Malaga province, S Spain) using geo-morphometric, hydrodynamic, hydrochemical and isotopic methods, *Acta carsologica*, 45, 1, 147-160
- JOSE BENAVENTE HERRERA
- 2016 Artículo: Structural controls on the development of the drainage system in the Triassic gypsum-rich formations of the western Subbetics (El Pontón stream, Badolatosa, Sevilla), *Geotemas*, 12, , 1-5
- JUAN CARLOS BALANYÁ ROURE
- 2016 Artículo: Flow in the western Mediterranean shallow mantle: insights from xenoliths in Pliocene alkali basalts from SE Iberia (Eastern Betic Cordillera, Spain), *Tectonics*, 35, , 2657-2676
- GUILLERMO BOOTH REA
- 2016 Artículo: Estimating groundwater discharge to surface waters using heat as a tracer in low flux environments: The role of thermal conductivity, *Hydrological Processes*, 30, 3, 383-395
- CARLOS DUQUE
- 2016 Artículo: Clues for a Tortonian reconstruction of the Gibraltar Arc: Structural pattern, deformation diachronism and block rotations, *Tectonophysics*, 683, , 308-324
- ANA CRESPO BLANC
- JUAN CARLOS BALANYÁ ROURE
- MARÍA DEL CARMEN COMAS MINONDO
- 2016 Artículo: New insight on the recent tectonic evolution and uplift of the southern Ecuadorian Andes from gravity and structural analysis of the Neogene-Quaternary intramontane basins, *Journal of South American Earth Sciences*, 70, , 340-352
- JESÚS GALINDO ZALDIVAR
- JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- PATRICIA RUANO ROCA
- 2016 Artículo: In Search of the Source of the 1865-1866 Nicaraguan Earthquakes: Paleoseismic Data from the



Cofradía Fault, Managua Graben (Nicaragua)., Bulletin of the Seismological Society of America, 106, 3, 871-880

PATRICIA RUANO ROCA

- 2016 Artículo: Tectonic activity evolution of the Scotia-Antarctic Plate boundary from mass transport deposit analysis, Journal of geophysical research. Solid earth (Online), 121, , 2216-2234

JESUS GALINDO ZALDIVAR

PATRICIA RUANO ROCA

- 2016 Artículo: Introduction to the thematic set: Exploring the Mediterranean ¿ new concepts related to the Messinian salt, Petroleum Geoscience, 22, 4, 281-282

JUAN IGNACIO SOTO HERMOSO

Libros (con ISBN)

- 2017 Origen, evolución y nuevos hallazgos de la Gruta de las Maravillas (Aracena): Universidad Internacional de Andalucía, Huelva, 2017, 978-84-7993-320-3

ANTONIO AZOR PEREZ

WENCESLAO MARTÍN ROSALES

MANUEL LÓPEZ CHICANO

PATRICIA RUANO ROCA

JESUS GALINDO ZALDIVAR

FRANCISCO JOSE MARTINEZ MORENO

- 2017 Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins: Tectonics and Hydrocarbon Potential: Elsevier, AMSTERDAM , HOLANDA, 2017, 978-0-12-809417-4

JUAN IGNACIO SOTO HERMOSO

- 2016 Field trip in the Betics: structural styles in continental extensional tectonics, a view from the upper-crust to the deep-lithosphere. Volume I: The Sierra Nevada Core Complex and active half-grabens: Universidad de Granada, Dpto. Geodinámica e Inst.Andaluz de Ciencias de la Tierra, Granada, 2016,

JUAN IGNACIO SOTO HERMOSO

- 2016 Field trip in the Betics: structural styles in continental extensional tectonics, a view from the upper-crust to the deep-lithosphere. Volume II: An outcropping example of a hyper-extended lithosphere: Universidad de Granada, Dpto. Geodinámica e Inst.Andaluz de Ciencias de la Tierra, Granada, 2016,

JUAN IGNACIO SOTO HERMOSO

Capítulos de libros (con ISBN)

- 2017 Titulo Capítulo: Identification of Vadose Karst Voids and Ventilation Patterns Coupling Hydrochemical and Geophysical Methods (Maro Spring, Near Nerja, Southern Spain), Titulo Libro: EuroKarst 2016, Neuchâtel: Springer Link, , 2017, 978-3-319-45465-8

JESUS GALINDO ZALDIVAR

JOSE BENAVENTE HERRERA

FRANCISCO JOSE MARTINEZ MORENO

- 2017 Titulo Capítulo: Multidisciplinary Hydrogeological Study of a Folded Karst Aquifer Under Intensive Exploitation: The Bedmar-Jódar Aquifer (Southern Spain), Titulo Libro: EuroKarst 2016, Neuchâtel: Springer Link, , 2017, 978-3-319-45465-8

ANTONIO PEDRERA PARIAS

JESUS GALINDO ZALDIVAR

- 2017 Titulo Capítulo: The Ionian fold-and-thrust belt in central and southern Albania: a petroleum province with Triassic evaporites, Titulo Libro: Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins: Tectonics and Hydrocarbon Potential: Elsevier, , 2017,

JUAN IGNACIO SOTO HERMOSO

- 2017 Titulo Capítulo: Allochthonous Triassic and Salt Tectonic Processes in the Betic-Rif Orogenic Arc, Titulo Libro: Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins: Tectonics and Hydrocarbon Potential: Elsevier, , 2017,

JUAN IGNACIO SOTO HERMOSO

- 2017 Titulo Capítulo: Petroleum systems and play types associated with Permottiassic salt, Titulo Libro: Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins: Tectonics and Hydrocarbon Potential: Elsevier, , 2017,

JUAN IGNACIO SOTO HERMOSO

- 2017 Titulo Capítulo: Permo-Triassic basins and tectonics in Europe, North Africa and the Atlantic Margins: A synthesis, Titulo Libro: Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins: Tectonics and Hydrocarbon Potential: Elsevier, , 2017,

JUAN IGNACIO SOTO HERMOSO

Contribuciones en congresos

- 2017 Comunicación en congreso: Decoding recent mud-volcano activity in the westernmost Mediterranean:



- Evidence from sediment/porewater data and geochemical modeling, European Geosciences Union General Assembly 2017, 23/04/2017, AUSTRIA, AUSTRIA, VIENA, Congreso
- MARÍA DEL CARMEN COMAS MINONDO
- 2017 Poster en Congreso: Oxygen fugacity and chemical potentials as determinant factors in constraining the metamorphic evolution of subducted rodingites and enclosing ultramafic rocks., European Geoscience Union, General Assembly, 2017, 23/04/2017, Viena (Austria), Congreso
- ANTONIO JABALOY SANCHEZ
- 2017 Sesión plenaria en Congreso: Geochronological and petrological evidence for the architecture of the Oulad Dlim Massif, The First West African Craton and Margins International Workshop, 24/04/2017, DAKHLA-MAROC, Congreso
- FRANCISCO GONZALEZ LODEIRO
- 2017 Ponencia en Congreso: Microtextural, mineralogical and thermobarometric characterization of metagabbronorites, charnockites and amphibolites from the Oulad Dlim Massif, The First West African Craton and Margins International Workshop, 24/04/2017, DAKHLA-MAROC, Congreso
- FRANCISCO GONZALEZ LODEIRO
- 2017 Ponencia en Congreso: The Gareg Granites: first evidence for an Archean core in the Oulad Dlim Massif, The First West African Craton and Margins International Workshop, 24/04/2017, DAKHLA-MAROC, Congreso
- FRANCISCO GONZALEZ LODEIRO
- 2017 Poster en Congreso: Lower Bashkirian conodonts from the Nevado-Filábride complex (Betic Cordilleras, Spain): tectonic and palaeogeographic implications, European Geosciences Union General Assembly 2017, 23/04/2017, Viena (Austria), Congreso
- ANTONIO JABALOY SANCHEZ
- 2017 Comunicación en congreso: Evénement tectonique précoce enregistrée par des microstructures dans les grenats des micaschistes des Sebtides (Rif interne, Maroc) et des Alpujarrides (Betiques, Espagne), 10ème édition du colloque International : Magmatisme, Métamorphisme et Minéralisations Associées à 3MA10, 11/05/2017, MEKNÈS, MARRUECOS, Congreso
- DOMINGO AERDEN
- 2017 Comunicación en congreso: Oblique basin inversion and strain partitioning in back-arc context: example from the Moroccan Alboran Margin (Western Mediterranean), European Geosciences Union General Assembly 2017, 23/04/2017, Austria / Vienna, Congreso
- JESUS GALINDO ZALDIVAR
- 2017 Ponencia en Congreso: Geochronological constraints on the exhumation and emplacement of subcontinental lithospheric mantle peridotites in the westernmost Mediterranean, EGU General Assembly, 23/04/2017, AUSTRIA, VIENA, Congreso
- GUILLERMO BOOTH REA
- 2017 Poster en Congreso: Decoding recent mud-volcano activity in the westernmost Mediterranean: Evidence from sediment/porewater data and geochemical modeling, General Assembly of the European Geosciences Union, 23/04/2017, Viena, Congreso
- MARÍA DEL CARMEN COMAS MINONDO
- 2017 Ponencia en Congreso: CLAY MINERAL TRANSFORMATION AND FLUID SOURCES AT MUD VOLCANOES IN THE ALBORAN BASIN (WESTERN MEDITERRANEAN), 16h International Clay Conference, 17/07/2017, Granada (España), Congreso
- MARÍA DEL CARMEN COMAS MINONDO
- 2017 Poster en Congreso: Structural interpretation of the Nadaleen Trend, Yukon, Association for Mineral Exploration Roundup, 23/01/2017, BRITISH COLUMBIA - VANCOUVER; CANADA, Congreso
- CRISTINA ACCOTTO
- 2017 Comunicación en congreso: The Alboran volcanic arc archipelago isolated the Mediterranean during the Messinian salinity crisis forming the land bridge for biota dispersal across the western Mediterranean, EGU General Assembly 2017, 23/04/2017, AUSTRIA, AUSTRIA, VIENA, Congreso
- GUILLERMO BOOTH REA
- 2017 Comunicación en congreso: Cuantificación de flujos verticales mediante flowmeter en sondeos del acuífero detrítico Motril-Salobreña, 62ª Sesión Científica de la Sociedad Geológica de España, 26/05/2017, Guadalupe, Cáceres, Congreso
- MARÍA LUISA CALVACHE QUESADA
- MANUEL LÓPEZ CHICANO
- 2016 Poster en Congreso: Estimating the folding rates of a shale-cored anticline in the Western South Caspian Basin: a combined approach between structural geology and nonparametric statistics, AAPG EUROPEAN REGION ANNUAL CONFERENCE & EXHIBITION-EXPLORATION-Petroleum Systems of Alpine-Mediterranean Fold Belts and Basins, 19/05/2016, Bucharest, Romania, Congreso
- JUAN IGNACIO SOTO HERMOSO
- 2016 Poster en Congreso: 3D structure of an active shale-cored anticline in the western South Caspian Basin (offshore Azerbaijan), AAPG EUROPEAN REGION ANNUAL CONFERENCE & EXHIBITION-Petroleum



- Systems of Alpine-Mediterranean Fold Belts and Basins, 19/05/2016, Bucharest, Romania, Congreso
JUAN IGNACIO SOTO HERMOSO
- 2016 Comunicación en congreso: Crustal structure and composition to the S of the Spanish Central System:
Effect of Alpine reactivation in an internal Variscan domain, European Geosciences Union General
Assembly 2016, 17/04/2016, AUSTRIA, VIENA, Congreso
DAVID JESUS MARTINEZ POYATOS
- 2016 Poster en Congreso: Quantitative morphometric analysis for the tectonic characterisation of northern
Tunisia, EGU General Assembly 2016, 10/04/2016, AUSTRIA, AUSTRIA, VIENA, Congreso
GUILLERMO BOOTH REA
JOSE VICENTE PÉREZ PEÑA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- 2016 Comunicación en congreso: Detrital zircon populations in the lower formations of the South Portuguese
Zone (SW Iberia, Variscan Orogen), IX Congreso Geológico de España, 12/09/2016, , Congreso
IRENE PÉREZ CÁCERES
DAVID JESUS MARTINEZ POYATOS
JOSÉ FERNANDO SIMANCAS CABRERA
ANTONIO AZOR PEREZ
- 2016 Comunicación en congreso: Assessment of the Variscan collisional transgression in SW Iberia, IX
Congreso Geológico de España, 12/09/2016, Huelva, Congreso
IRENE PÉREZ CÁCERES
DAVID JESUS MARTINEZ POYATOS
JOSÉ FERNANDO SIMANCAS CABRERA
ANTONIO AZOR PEREZ
- 2016 Comunicación en congreso: U-Pb zircon age and tectonic meaning of the Cardenchosa pluton (Ossa-
Morena Zone), IX Congreso Geológico de España, 12/09/2016, Huelva, Congreso
DAVID JESUS MARTINEZ POYATOS
FRANCISCO GONZALEZ LODEIRO
IRENE PÉREZ CÁCERES
JOSÉ FERNANDO SIMANCAS CABRERA
ANTONIO AZOR PEREZ
- 2016 Poster en Congreso: Evidence of the 1,500 yr climate cycle in the western Mediterranean over the last 20
kyr, 12th International Conference on Paleoceanography, 29/08/2016, Utrecht, Holanda, Congreso
EULOGIO PARDO IGUZQUIZA
- 2016 Comunicación en congreso: River capture and sediment redistribution in northern Tunisia: The doom of
Utica, EGU General Assembly 2016, 17/04/2016, Austria, Viena, Congreso
GUILLERMO BOOTH REA
JOSE VICENTE PÉREZ PEÑA
JOSÉ MIGUEL AZAÑÓN HERNANDEZ
- 2016 Comunicación en congreso: Role of the Alboran Sea volcanic arc choking the Mediterranean to the
Messinian salinity crisis and foundering biota diversification in North Africa and Southeast Iberia, EGU
General Assembly 2016, 17/04/2016, Austria, Viena, Congreso
GUILLERMO BOOTH REA
- 2016 Comunicación en congreso: Active faulting and earthquakes in the central Alboran Sea, 35th General
Assembly of the European Seismological Commission, 04/09/2016, Trieste, Italia, Congreso
JESUS GALINDO ZALDIVAR
- 2016 Poster en Congreso: Petrological evolution of subducted rodingite from seafloor metamorphism to
dehydration of enclosing antigorite-serpentinite (Cerro del Almirez massif, southern Spain), EGU General
Assembly 2016, 17/04/2016, Austria, Viena, Congreso
ANTONIO JABALOY SANCHEZ
- 2016 Poster en Congreso: HSE & Os isotope composition of subducted serpentinites & enclosed
metarodingites from Cerro del Almirez (Betic Cordillera, S. Spain), 4th International Workshop on Highly
Siderophile Element Geochemistry, 11/07/2016, , Congreso
ANTONIO JABALOY SANCHEZ
- 2016 Comunicación en congreso: Metamorphic evolution and hydration-dehydration reactions of a serpentinite-
rodingite suite during subduction (Cerro del Almirez massif, Southern Spain), 4th Serpentine Days,
25/09/2016, Sète (Francia), Congreso
ANTONIO JABALOY SANCHEZ
- 2016 Poster en Congreso: SUBSIDENCE MONITORING IN SEVILLE (S SPAIN) USING MULTI-TEMPORAL InSAR,
Living Planet Sumposium 2016, 09/05/2016, - Praga, República Checa, Congreso
ANTONIO PEDRERA PARIAS
JESUS GALINDO ZALDIVAR
- 2016 Comunicación en congreso: Applying Random Forest to assess the vulnerability of groundwater to
pollution by nitrates, 11th International Conference on Geostatistics for Environmental Application



Conference, 06/07/2016, , Congreso

MARIO CHICA OLMO

- 2016 Comunicación en congreso: WSW-ENE extension in Mallorca, key for integrating the Balearic Promontory in the Miocene tectonic evolution of the western Mediterranean, IX Congreso Geológico de España,

12/09/2016, Huelva, España, Congreso

GUILLERMO BOOTH REA

JOSE VICENTE PÉREZ PEÑA

JOSÉ MIGUEL AZAÑÓN HERNANDEZ

- 2016 Comunicación en congreso: Changes in basal dip and frictional properties controlling orogenic wedge propagation and frontal collapse: the External central Betics case, EGU General Assembly 18, 17/04/2016, Vienna (Austria), Congreso

JUAN CARLOS BALANYÁ ROURE

- 2016 Comunicación en congreso: Strain partitioning modes of progressive arcs: An analogue modeling approach, IX Congreso Geológico de España, 12/09/2016, Huelva, España, Congreso

JUAN CARLOS BALANYÁ ROURE

ANA CRESPO BLANC

- 2016 Poster en Congreso: Morphology and recent sub-surface stratigraphy of Dove Basin, Scotia Sea: Physiographic constrains on bottom current deposition, 35th International Geological Congress, 27/08/2016, Ciudad del Cabo, República Sudaficana, Congreso

CARLOTA ESCUTIA DOTTI

- 2016 Poster en Congreso: Late Quaternary sedimentation patterns in Ona Basin, southern Scotia Sea, Antarctica: Preliminary results, XXXIV SCAR Open Science Conference, 20/08/2016, Kuala Lumpur, KUALA LUMPUR, MALASIA, Congreso

CARLOTA ESCUTIA DOTTI

- 2016 Poster en Jornada: Antarctica's role in the Earth's climate system, I JORNADAS DE INVESTIGADORES EN FORMACIÓN. FOMENTANDO LA INTERDISCIPLINARIEDAD, 18/05/2016, GRANADA, ESPAÑA, Jornada

CARLOTA ESCUTIA DOTTI

- 2016 Comunicación en congreso: Hallazgo de un cuerpo conductor profundo en la cuenca de antepaís del Guadalquivir (Cordillera Bética, España) a partir de la modelización de vectores tipper, Annual meeting of the Mexican Geophysical Union, 31/10/2016, PUERTO VALLARTA, JALISCO (MÉXICO), Congreso

PATRICIA RUANO ROCA

JESUS GALINDO ZALDIVAR

ANTONIO PEDRERA PARIAS

FRANCISCO JOSE MARTINEZ MORENO

- 2016 Comunicación en congreso: Modelización Geológica 3D como apoyo a la planificación hidrológica: masas de agua subterránea de la demarcación de Melilla, Congreso hispano-luso sobre las aguas subterráneas en el segundo ciclo de planificación hidrológica, 28/11/2016, Salón de Actos Confederación Hidrográfica del Tajo - Madrid, Congreso

JESUS GALINDO ZALDIVAR

ANTONIO PEDRERA PARIAS

FRANCISCO JOSE MARTINEZ MORENO

- 2016 Comunicación en congreso: Influencia de un pequeño estrecho de conexión océano-mar en datos magnetotelúricos: el estrecho de Gibraltar (Sur de España, Norte de África), Annual meeting of the Mexican Geophysical Union, 31/10/2016, PUERTO VALLARTA, JALISCO (MÉXICO), Congreso

JESUS GALINDO ZALDIVAR

- 2016 Comunicación en congreso: Anisotropía eléctrica y flujo mantélico - Estudio magnetotelúrico en Tierra de Fuego, Sudamérica, Annual meeting of the Mexican Geophysical Union, 31/10/2016, PUERTO VALLARTA, JALISCO (MÉXICO), Congreso

JESUS GALINDO ZALDIVAR

ANTONIO PEDRERA PARIAS

PATRICIA RUANO ROCA

- 2016 Poster en Congreso: Flow and Deep Electrical Anisotropy ¿ an MT investigation in Tierra del Fuego, South America, 23rd Electromagnetic Induction Workshop, 14/08/2016, Chiang Mai, Thailand, Congreso

JESUS GALINDO ZALDIVAR

ANTONIO PEDRERA PARIAS

PATRICIA RUANO ROCA

- 2016 Comunicación en congreso: Descubrimiento de una cavidad durante los trabajos de delimitación del Perímetro de Protección de la Gruta de las Maravillas (Aracena, Huelva), Cuevatur 2016, 29/09/2016, NERJA, MÁLAGA, ESPAÑA, Congreso

MANUEL LÓPEZ CHICANO

JESUS GALINDO ZALDIVAR

FRANCISCO JOSE MARTINEZ MORENO

WENCESLAO MARTÍN ROSALES



- 2016 Poster en Congreso: Deformación reciente y control tectónico del relieve de la Cuenca del Guadalquivir entre las Béticas Centrales y Occidentales, IX CONGRESO GEOLÓGICO DE ESPAÑA, 12/09/2016, -
HUELVA, ESPAÑA., Congreso
JUAN CARLOS BALANYÁ ROURE
- 2016 Ponencia en Congreso: Identación tectónica en la zona central de la Cuenca de Alborán, La sismicité d'Al Hoceima: evaluation des aléas et de la vulnérabilité, 16/07/2016, AL HOCEIMA, MOROCCO, Jornada
JESUS GALINDO ZALDIVAR
- 2016 Ponencia en Jornada: Rasgos morfotectónicos en la Cuenca del Mar de Alborán y su relación con la actividad tectónica contemporánea, La sismicité d'Al Hoceima: evaluation des aléas et de la vulnérabilité, 16/07/2016, AL HOCEIMA, MOROCCO, Jornada
JESUS GALINDO ZALDIVAR
- 2016 Ponencia en Congreso: Rasgos morfotectónicos en la Cuenca del Mar de Alborán y su relación con la actividad tectónica contemporánea, La sismicité d'Al Hoceima: evaluation des aléas et de la vulnérabilité, 16/07/2016, AL HOCEIMA, MOROCCO, Congreso
JESUS GALINDO ZALDIVAR
- 2016 Ponencia en Congreso: Los riesgos geológicos en el Mar de Alborán. La campaña INCRISIS 2016, La sismicité d'Al Hoceima: evaluation des aléas et de la vulnérabilité, 16/07/2016, AL HOCEIMA, MOROCCO, Congreso
JESUS GALINDO ZALDIVAR
- 2016 Poster en Congreso: Modelling sea-aquifer contact in salt water intrusion issues: conditions and possibilities, The 24th Salt Water Intrusion Meeting and the 4th Asia-Pacific Coastal Aquifer Management Meeting, 04/07/2016, Cairns, Queensland, Australia, Congreso
CARLOS DUQUE
- MANUEL LÓPEZ CHICANO
- MARÍA LUISA CALVACHE QUESADA
- 2016 Comunicación en congreso: Estimation of hydraulic diffusivity using tidal extracted oscillations from groundwater head affected by tide, The 24th Salt Water Intrusion Meeting and the 4th Asia-Pacific Coastal Aquifer Management Meeting, 04/07/2016, Cairns, Queensland, Australia, Congreso
CARLOS DUQUE
- MANUEL LÓPEZ CHICANO
- MARÍA LUISA CALVACHE QUESADA
- 2016 Comunicación en congreso: Estimación de la difusividad hidráulica en acuíferos costeros utilizando la oscilación mareal inducida extraída de los registros piezométricos., IX Congreso Geológico de España, 12/09/2016, Huelva, España, Congreso
MARÍA LUISA CALVACHE QUESADA
- CARLOS DUQUE
- MANUEL LÓPEZ CHICANO