



Geodinámica

Áreas de conocimiento: Geodinámica externa, Geodinámica interna

Director: José Miguel Azañón Hernández

Secretario: Manuel López Chicano

Página web: <http://www.ugrgeodina.es>

Profesorado: CU:13, PTU: 4, PTEU: 0, PDI Contratado y Otros: 4.

Tesis leídas

- A study on the use of non-conventional additives for stabilization of expansive soils

Doctorando: Ureña Nieto, Carlos

Director: José Miguel Azañón Hernández, Francisco A. Corpas Iglesias

Fecha de lectura: 29 de julio de 2014

- Detection and characterization of karstic caves: integration of geological and geophysical techniques

Doctorando: Martínez Moreno, Francisco José

Director: Jesús Galindo Zaldívar, Antonio Pedrera Parias

Fecha de lectura: 5 de marzo de 2015

- Crustal structure and active deformation in the westernmost Betic Cordillera and its foreland

Doctorando: González Castillo, Lourdes

Director: Jesús Galindo Zaldívar

Fecha de lectura: 14 de mayo de 2015

Grupos de Investigación.

RNM163 ANALISIS Y DINAMICA DE CUENCAS:ASPECTOS SEDIMENTOLÓGICOS Y TECTÓNICOS.

- Responsable: ANGEL CARLOS LOPEZ GARRIDO

RNM376 DINÁMICA DE ORÓGENOS Y CUENCAS

- Responsable: JUAN IGNACIO SOTO HERMOSO

RNM148 GEOLOGIA ESTRUCTURAL Y TECTONICA

- Responsable: FRANCISCO GONZALEZ LODEIRO

RNM369 GEOLOGÍA SEDIMENTARIA Y AGUAS SUBTERRÁNEAS

- Responsable: MARÍA LUISA CALVACHE QUESADA

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

- 2014 Control geodésico de la deformación en la Cuenca de Guadix-Baza a partir de mediciones GNSS, , 01/06/2014-

Investigador/a LOPEZ GARRIDO, ANGEL CARLOS

Investigador/a PEDRERA PARIAS, ANTONIO

Investigador/a RUANO ROCA, PATRICIA

Investigador/a GALINDO ZALDIVAR, JESUS

- 2014 Metodologías y herramientas para analizar Impactos y Adaptación al Cambio Global en Sistemas de Recursos Hídricos (IMPADAPT), Ministerio de Educación, Cultura y Deporte, 01/01/2014-

LUQUE ESPINAR, JUAN ANTONIO

- 2014 Radar interferometry for deformation monitoring in Zafarraya Fault and Sierra Tejeda Antiform (Betic Cordillera, Spain, EUROPEAN SPACE AGENCY, 04/12/2014-04/02/2016

Investigador/a GALINDO ZALDIVAR, JESUS

Publicaciones en revistas

- 2015 Artículo: Stability analysis of a slope subject to real accelerograms by finite elements. Application to San Pedro cliff at the Alhambra in Granada, Soil Dynamics and Earthquake Engineering, 69, , AZAÑÓN HERNANDEZ, JOSÉ MIGUEL

- 2015 Artículo: High resolution X-ray computed micro-tomography: A holistic approach to metamorphic fabric analyses., Geology, 43, , 55-58

AERDEN , DOMINGO

- 2015 Artículo: Valorization and inertization of galvanic sludge waste in clay bricks, APPLIED CLAY SCIENCE, 105-106, , 89-99

UREÑA NIETO, CARLOS

- 2015 Artículo: Regional and residual anomaly separation in microgravity maps for cave detection: the case study of Gruta de las Maravillas (SW Spain), Journal of applied geophysics, 114, , 1-11

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MARTINEZ MORENO, FRANCISCO JOSE



- 2015 Artículo: Structural controls on karstic conduits in a collisional orogen (Sierra de las Nieves, Betic Cordillera, S Spain), *Geomorphology (Amsterdam)*, 238, 1, 15-26
LUQUE ESPINAR, JUAN ANTONIO
MARTINEZ MORENO, FRANCISCO JOSE
PARDO IGUZQUIZA, EULOGIO
PEDRERA PARIAS, ANTONIO
- 2015 Artículo: Lithospheric Velocity Model across the southern Central Iberian Zone (Variscan Iberian Massif): the ALCUDIA Wide-Angle Seismic Reflection Transect, *Tectonics (Washington, D.C.)*, 34, , 535-554
AZOR PEREZ, ANTONIO
MARTINEZ POYATOS, DAVID JESUS
SIMANCAS CABRERA, JOSÉ FERNANDO
- 2014 Artículo en prensa: Evaluation of different machine learning methods for land cover mapping of a Mediterranean area using multi-seasonal Landsat images and Digital Terrain Models, *International journal of digital earth (Print)*, 7, 6, 492-509
RODRÍGUEZ GALIANO, VICTOR FRANCISCO
- 2014 Artículo: Sedimentology of geomorphologically-controlled Quaternary tufas in a valley in Southern Spain, *Facies*, 60, , 53-72
PLA PUEYO, SILA
VISERAS ALARCON, CESAR
- 2014 Artículo: Six thousand years of coast line evolution in the Guadalfeo deltaic system (southern Iberian Peninsula), *Geomorphology (Amsterdam)*, 206, , 374-391
AZOR PEREZ, ANTONIO
JABALOY SANCHEZ, ANTONIO
LOBO SÁNCHEZ, FRANCISCO JOSÉ
MARTÍN ROSALES, WENCESLAO
PÉREZ PEÑA, JOSE VICENTE
VÁZQUEZ VÍLCHEZ, MERCEDES
- 2014 Artículo: Environmental and mechanical aspects of an anchored mesh for stabilisation of a cliff at La Alhambra, *Bulletin of engineering geology and the environment (Print)*, , , 1-19
AZAÑÓN HERNANDEZ, JOSÉ MIGUEL
- 2014 Artículo: The role of diagenesis and depositional facies on pore system evolution in a Triassic outcrop analogue (SE Spain), *Marine and Petroleum Geology*, 51, , 136-151
FERNANDEZ MARTINEZ, JUAN
HENARES LADRÓN DE GUEVARA, SATURNINA
VISERAS ALARCON, CESAR
- 2014 Artículo: Millennial- to centennial-scale climate periodicities and forcing mechanisms in the westernmost Mediterranean for the past 20,000 years, *Quaternary research (Print)*, 81, 1, 78-93
PARDO IGUZQUIZA, EULOGIO
- 2014 Artículo en prensa: Predictive modelling of gold potential with the integration of multi-source information based on Random Forest: a case study on the Rodalquilar area, Southern Spain, *International journal of geographical information science (Print)*, 28, 7, 1336-1354
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- 2014 Artículo: Predictive modelling of groundwater nitrate pollution using Random Forest and multisource variables related to intrinsic and specific vulnerability: a case study in an agricultural setting (Southern Spain)., *Science of the Total Environment*, 476-477, , 189-206
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- 2014 Artículo: GIS application for regional assessment of seismically induced slope failures in the Sierra Nevada Range, South Spain, along the Padul Fault, , , -
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- 2014 Artículo: Integrated geophysical methods for studying the karst system of Gruta de las Maravillas (Aracena, Southwest Spain), *Journal of applied geophysics*, 107, , 149-162
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- 2014 Artículo: Study of relief changes related to active doming in the eastern Moroccan Rif (Morocco)



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- JABALOY SANCHEZ, ANTONIO
PÉREZ PEÑA, JOSE VICENTE
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- 2014 Artículo: Evolution of clay mineral assemblages in the Tinguiririca geothermal field, Andean Cordillera of central Chile: an XRD and HRTEM-AEM study, *Journal of Volcanology and Geothermal Research*, 282, , 43-59
- VÁZQUEZ VÍLCHEZ, MERCEDES
- 2014 Artículo: Topo-Iberia project: CGPS crustal velocity field in the Iberian Peninsula and Morocco, *GPS Solutions. The Journal of Global Navigation Satellite Systems*, 6, , -
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- 2014 Artículo: The last major earthquakes along the Magallanes¿Fagnano fault system recorded by disturbed trees (Tierra del Fuego, South America), *Terra Nova*, 26, , 448-453
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- 2014 Artículo: La ventana tectónica de Albuñol: estratigrafía y estructura (Complejo Alpujárride, Zona Interna Bética, provincia de Granada), *Revista de la Sociedad Geológica de España*, 27, , 287-299



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- 2014 Artículo: Pillow Lavas of Rabat (Northwestern Moroccan Meseta): Transitional Geochemical Signature of Magmas set up in an Early Ordovician Extending Platform, *EUROPEAN JOURNAL OF SCIENTIFIC RESEARCH*, 122, 1, 45-57

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Capítulos de libros (con ISBN)

- 2014 Título Capítulo: Modelos análogos aplicados a la enseñanza práctica de la prospección geofísica orientados al ees: métodos eléctricos, Título Libro: Innovación docente y buenas prácticas en la Universidad de Granada: Universidad de Granada. Editorial Universidad de Granada, , 2014, 978-84-338-5685-2

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Contribuciones en congresos

- 2014 Comunicación en congreso: Subduction and exhumation structures preserved in Cerro del Almirez HP metaserpentinites (Betic Cordillera, SE Spain), *European Geosciences Union 2014 General Assembly*, 27/04/2014, AUSTRIA, VIENA, Congreso

JABALOY SANCHEZ, ANTONIO

- 2014 Comunicación en congreso: Multi-scale characterization of a Contourite Depositional System from Gamma Ray data analysis. Insights from IODP Expedition 339 in the Gulf of Cadiz., *European Geosciences Union 2014*, 27/04/2014, VIENNA, AUSTRIA, Congreso

PARDO IGUZQUIZA, EULOGIO

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- 2014 Comunicación en congreso: European vegetation response to climate drivers in the last decade: using 1 km MERIS data for modelling changes in land surface phenology, *20th International Conference of Biometeorology*, 28/09/2014, Cleveland, USA, Congreso

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- 2014 Comunicación en congreso: Offshore-onshore recent tectonic deformations in the eastern Rif and its foreland (Alhoceima-Nador, Morocco), EGU General Assembly 2014, 27/04/2014, Viena, Austria, Congreso

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- 2014 Comunicación en congreso: Actividad cuaternaria del sistema de estructuras asociado a la Falla de Socovos (Béticas Orientales), 2ª Reunión Ibérica sobre Fallas Activas y Paleosismología, 22/10/2014, Lorca, Murcia, España, Congreso

AZOR PEREZ, ANTONIO

- 2014 Comunicación en congreso: Ab-initio Molecular Dynamics study of the influence of octahedral charge in dehydroxylation reaction of 2:1 dioctahedral phyllosilicate models., 10th Congress of the World Association of Theoretical and Computational Chemists, 05/10/2014, , Congreso

MUÑOZ SANTIBURCIO, DANIEL

- 2014 Poster en Congreso: DFT bulk moduli of muscovite-paragonite series, 9th Congress on Electronic Structure: Principles and Applications, 02/07/2014, OLIVENZA- BADAJOZ, Congreso

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- 2014 Poster en Congreso: DFT study of the hydrolysis mechanisms on neutral and protonated silica cluster models, 9th Congress on Electronic Structure: Principles and Applications, 02/07/2014, BADAJOZ (ESPAÑA), Congreso

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- 2014 Poster en Congreso: Hydrolysis mechanisms on silica and silicates molecular models, 10th Congress of the World Association of Theoretical and Computational Chemists, 05/10/2014, , MUÑOZ SANTIBURCIO, DANIEL

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- 2014 Comunicación en congreso: New insights into the tectonic evolution of the Southwestern Iberian Shear Zone, Gondwana 15 Conference - 2014 North meets South, 14/07/2014, - MADRID, ESPAÑA,, Congreso

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- 2014 Comunicación en congreso: From the surface Topography to the Upper mantle beneath Central Iberian Zone. The ALCUDIA seismic experiments, 16TH SEISMIX International Symposium, 12/10/2014, CASTELLDEFELS, BARCELONA, Congreso

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- 2014 Poster en Congreso: Seismic reflection investigation of the crust and upper mantle in the Central



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