

Ficha de grupo de investigación

PETROLOGIA Y MODELIZACION DE PROCESOS LITOSFERICOS

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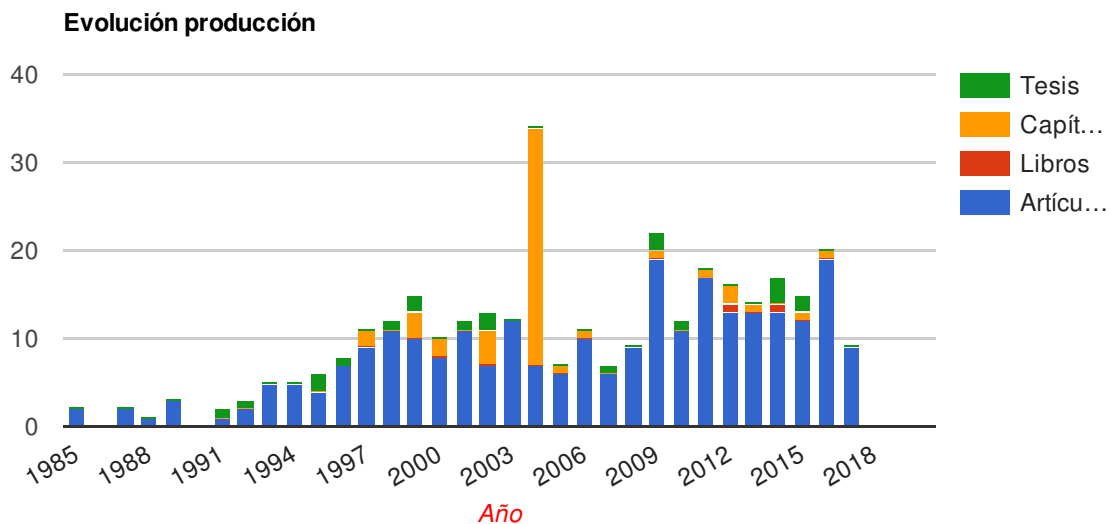
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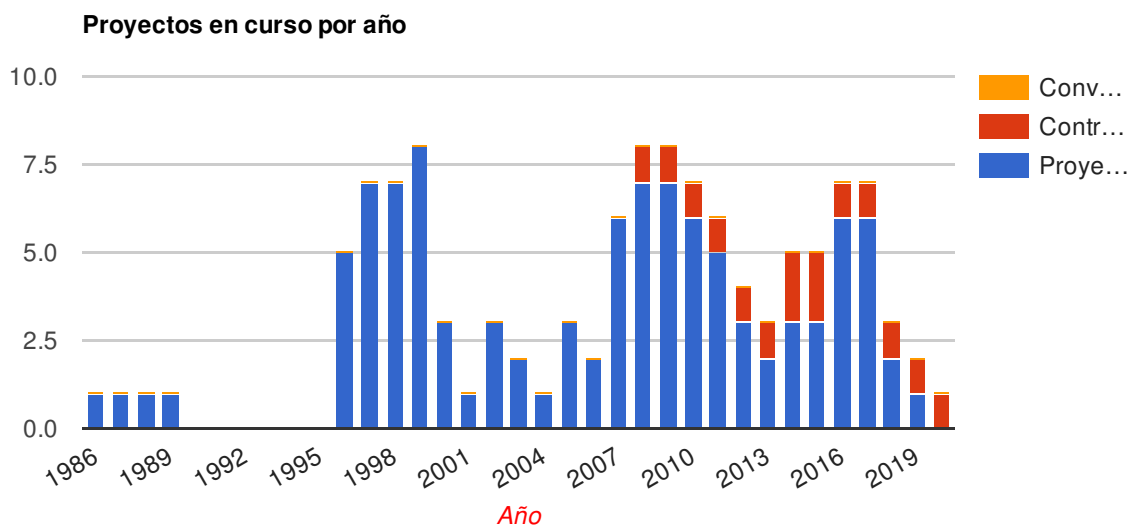
Producción 522

- Artículos (441)
- Libros (5)
- Capítulos de Libros (53)
- Tesis dirigidas (23)



Proyectos dirigidos 30

- Proyectos (28)
- Contratos (2)
- Convenios (0)



Actividades 22

Titulo publicación	Fuente	Tipo	Fecha
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	Articulo	2017
Geochronological and geochemical evidences for extension-related neoproterozoic granitoids in the southern saço francisco craton, brazil	Precambrian research	Articulo	2017
Hot subduction in the middle jurassic and partial melting of oceanic crust in chilean patagonia	Gondwana research	Articulo	2017
Lu-hf ratios of crustal rocks and their bearing on zircon hf isotope model ages: the effects of accessories	Chemical geology	Articulo	2017
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	Articulo	2017
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	Articulo	2017
Petrogenesis of meta-volcanic rocks from the maimón formation (dominican republic): geochemical record of the nascent greater antilles paleo-arc	Lithos	Articulo	2017
Petrogenesis of meta-volcanic rocks from the maimón formation (dominican republic): geochemical record of the nascent greater antilles paleo-arc	Lithos	Articulo	2017
Trace-element geochemistry of transform-fault serpentinite in high-pressure subduction mélanges (eastern cuba): implications for subduction initiation	International geology review	Articulo	2017
A first report of variscite tairona artifacts (a.d. 1100-1600) from the sierra nevada de santa marta, colombia, and its implications for precolumbian exchange networks in the region	Latin american antiquity	Articulo	2016
Chemical and textural controls on the formation of sepiolite, palygorskite and dolomite in volcanic soils	Geoderma	Articulo	2016
Contrasting shrimp u-pb zircon ages of two carbonatite complexes from the peri-cratonic terranes of the reguibat shield: implications for the lateral extension of the west african craton	Gondwana research	Articulo	2016
Devonian magmatism in the timan range, arctic russia - subduction, post-orogenic extension, or rifting?	Tectonophysics	Articulo	2016
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	Lithos	Articulo	2016
Geoquímica del magmatismo mesozoico asociado al margen continental pasivo en el occidente y centro de cuba	Boletin de la sociedad geologica mexicana	Articulo	2016
High-pressure greenschist to blueschist facies transition in the maimón formation (dominican republic) suggests mid-cretaceous subduction of the early cretaceous caribbean arc	Lithos	Articulo	2016
La-sf-icp-ms zircon u-pb geochronology of granitic rocks from the central bundelkhand greenstone complex,	Journal of asian earth sciences	Articulo	2016

bundelkhand craton, india			
Mineralogical evidence for lamproite magma mixing and storage at mantle depths: socovos fault lamproites, se spain	Lithos	Articulo	2016
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 f	Ore geology reviews	Articulo	2016
Miocene andesitic lavas of sierra de anganguero: a petrological, geochemical, and geochronological approach to arc magmatism in central mexico	International geology review	Articulo	2016
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	Articulo	2016
Recycling and transport of continental material through the mantle wedge above subduction zones: a caribbean example	Earth and planetary science letters	Articulo	2016
Restauración de la columnata del patio de la capilla del hospital real	Restauración del patrimonio de la universidad de granada (i)	Capítulo de libro	2016
Th-ree-and nb-ta-accessory minerals in post-collisional ediacaran felsic rocks from the katerina ring complex (s. sinai, egypt): an assessment for the fractionation of y/nb, th/nb, la/nb and ce/pb in highly evolved a-type granites	Lithos	Articulo	2016
The archaic kalsilite-nepheline syenites of the awsard intrusive massif (reguibat shield, west african craton, morocco) and its relationship to the alkaline magmatism of africa	Journal of african earth sciences, and the middle east	Articulo	2016
The galicia-ossa-morena zone: proposal for a new zone of the iberian massif. variscan implications	Tectonophysics	Articulo	2016
The geology of cuba: a brief overview and synthesis	Gsa today	Articulo	2016
The metahyaloclastitic matrix of a unique metavolcanic block reveals subduction in the somozas mélange (cabo ortegal complex, nw iberia): tectonic implications for the assembly of pangea	Journal of metamorphic geology	Articulo	2016
Twenty-five million years of subduction-accretion-exhumation during the late cretaceous-tertiary in the northwestern caribbean: the trinidad dome, escambray complex, central cuba	American journal of science (1880)	Articulo	2016
Calcic amphibole thermobarometry in metamorphic and igneous rocks: new calibrations based on plagioclase/amphibole al-si partitioning and amphibole/liquid mg partitioning	Lithos	Articulo	2015
Did the turonian-coniacian plume pulse trigger subduction initiation in the northern caribbean? constraints from $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the moa-baracoa metamorphic sole (eastern cuba)	International geology review	Articulo	2015
First evidence for cambrian rift-related magmatism in the west african craton margin: the derraman peralkaline felsic complex. gondwana research	Gondwana research	Articulo	2015
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	Articulo	2015
Magnesium isotopic systematics of metapelite in the deep crust and implications for granite petrogenesis	Geochemical perspective letters	Articulo	2015

Ossa-morena zone variscan 'calc-alkaline' hybrid rocks: interaction of mantle- and crustal-derived magmas as a result of intra-orogenic extension-related intraplating	Universidad de granada. mineralogia y petrologia	Tesis doctoral	2015
Ossa-morena zone variscan 'calc-alkaline' hybrid rocks: interaction of mantle- and crustal-derived magmas as a result of intra-orogenic extension-related intraplating	Universidad de granada, granada, españa	Tesis doctoral	2015
Phase equilibria and trace element modeling of archean sanukitoid melts	Precambrian research	Articulo	2015
Premier bilan sur les moulins pompéiens dans la péninsule ibérique	Archéologie des moulins hydrauliques, à traction animale et à vent, des origines à l'èpoque médiévale actes du colloque international	Capítulo de libro	2015
Role of clay minerals in the formation of atmospheric aggregates of saharan dust.	Atmospheric environment	Articulo	2015
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	Articulo	2015
The role of intracontinental deformation in supercontinent assembly: insights from the ribeira belt, southeastern brazil (neoproterozoic west gondwana)	Terra nova	Articulo	2015
The spatial and compositional evolution of the late jurassic ghorveh-dehgolan plutons of the zagros orogen, iran: shrimp zircon u-pb and sr and nd isotope evidence	Geologica acta	Articulo	2015
Two distinct late mesoproterozoic/early neoproterozoic basement provinces in central/eastern dronning maud land, east antarctica: the missing link, 15¿21°e	Precambrian research	Articulo	2015
Weathering profile of the cerro de maimón vms deposit (dominican republic): textures, mineralogy, gossan evolution and mobility of gold and silver	Ore geology reviews	Articulo	2015
Evidencias de metamorfismo policíclico (pre-alpino y	Revista de la sociedad geológica de españa	Articulo	2014
Garnierites and garnierites: textures, mineralogy and geochemistry of garnierites in the falcondo ni-laterite deposit, dominican republic	Ore geology reviews	Articulo	2014
Geochronology and petrogenesis of the katerina ring complex, southern sinai, egypt	Universidad de granada	Tesis doctoral	2014
Geochronology and petrogenesis of the katerina ring complex, southern sinai, egypt.	Universidad de granada	Tesis doctoral	2014
Kalsilite-bearing plutonic rocks: the deep-seated archean awasard massif of the reguibat rise, south morocco, west african craton	Earth-science reviews	Articulo	2014
Late jurassic terrane collision in the northwestern margin of gondwana (cajamarca complex, eastern flank of the central cordillera, colombia)	International geology review	Articulo	2014
Late paleozoic onset of subduction and exhumation at the western margin of gondwana (chilenia terrane): counterclockwise p-t paths and timing of metamorphism of deep-seated garnet-mica schist and amphibolite of punta sirena, coastal accretionary comp	Lithos	Articulo	2014
Metamorphism and tectonic evolution of the permian-carboniferous paired metamorphic belt of the pichilemu	Instituto de geociencias, universidad de sao paulo, brasil (co-tutela con	Tesis doctoral	2014

region, chilean coastal cordillera, central chile	universidad de granada)	doctoral	
Pre-alpine discordant granitic dikes in the metamorphic core of the betic cordillera: tectonic implications	Terra nova	Articulo	2014
Prácticas de petrología ebook	Universidad de granada	Libros	2014
Temporal relationships between mg-k mafic magmatism and catastrophic melting of the variscan crust in the southern part of velay complex (massif central, france)	Journal of geosciences	Articulo	2014
The nature of the palaeozoic oceanic basin at the southwestern margin of gondwana and implications for the origin of the chilenia terrane (pichilemu region, central chile)		Articulo	2014
The nature of the palaeozoic oceanic basin at the southwestern margin of gondwana and implications for the origin of the chilenia terrane (pichilemu region, central chile)	International geology review	Articulo	2014
Timing of archaean crust formation and cratonization in the awasard-tichla zone of the nw reguibat rise, west african craton: a shrimp, nd/sr isotopes, and geochemical reconnaissance study	Precambrian research	Articulo	2014
Transformación andalucita y cianita asistida por la deformación y la presencia de filosilicatos.	Macla	Articulo	2014
Unraveling sources of a-type magmas in juvenile continental crust: constraints from compositionally diverse ediacaran post-collisional granitoids in the katerina ring complex, southern sinai, egypt	Lithos	Articulo	2014
Variación composicional de micas en lamproitas como marcadores de procesos mantélicos	Macla	Articulo	2014
2.46 ga kalsilite and nepheline syenites from the awasard pluton, reguibat rise of the west african craton, morocco. generation of extremely k-rich magmas at the archaean-proterozoic transition	Precambrian research	Articulo	2013
Continued characterization of querns and quern quarries in southern spain.	Proceedings of the 4th international colloquium on the archaeology and geology of mills and milling. the museum of archaeology, university of stavanger, norway.	Capítulo de libro	2013
Diffusion-induced disturbances of the u/pb isotope system in pre-magmatic zircon and their influence on sims dating. a numerical study	Chemical geology	Articulo	2013
Early palaeozoic deep subduction of continental crust in the kyrgyz north tianshan: evidence from lu-hf garnet geochronology and petrology of mafic dikes	Contributions to mineralogy and petrology	Articulo	2013
Estudio mineralógico cuantitativo mediante difracción de rayos-x de rocas potásicas de la región volcánica neógena del sureste de españa: lamproitas anómalas.		Articulo	2013
Evaluating the controls on tourmaline formation in granitic systems: a case study on peraluminous granites from the central iberian zone (ciz), western spain	Journal of petrology	Articulo	2013
First description of a metamorphic sole related to ophiolite obduction in the northern caribbean. geochemistry and petrology of the güira de jauco amphibolite complex (eastern cuba) and tectonic implications.	Lithos	Articulo	2013
Late cretaceous subduction of the continental basement of the maya block (rabinal granite, central guatemala): tectonic implications for the geodynamic evolution of	Geological society of america bulletin	Articulo	2013

central america			
Magmas mantélicos a través de un complejo anatético: evidencias texturales y composicionales de micas en lamproitas de la región neógena volcánica del sureste de españa.	Geogaceta	Articulo	2013
Magmas mantélicos a través de un complejo anatético: evidencias texturales y composicionales de micas en lamproitas de la región neógena volcánica del sureste de españa.	Geogaceta	Articulo	2013
Pre-columbian jadeitite artifacts from the golden rock site, st. eustatius, lesser antilles, with special reference to jadeitite artifacts from elliot's, antigua: implications for potential source regions and long-distance exchange networks in t	Journal of archaeological science	Articulo	2013
U-pb ages and metamorphic evolution of the la pampa gneisses, north-central chile: implications for the evolution of the chilenia terrane	Journal of south american earth sciences	Articulo	2013
U/pb zircon geochronology of the cambro ordovician metagranites and metavolcanic rocks of central and nw iberi	International journal of earth sciences	Articulo	2013
Ultrapotassic volcanic centres as potential paleogeographic indicators: the mediterranean tortonian 'salinity crisis', southern spain	Geologica acta	Articulo	2013
Anomalous xenocryst dispersion during tonalite-granodiorite crystal mush hybridization in the mid crust: mineralogical and geochemical evidence from variscan appinites (avila batholith, central iberia)	Lithos	Articulo	2012
Deep earth: how it controls our environment. igcp 433: caribbean plate tectonics and igcp 546: subduction zones of the caribbean	Tales set in stone 40 years of the international geoscience programme (igcp), unesco	Capítulo de libro	2012
Ediacaran to lower ordovician age for rocks ascribed to the schist-graywacke complex (iberian massif, spain): evidence from detrital zircon shrimp u-pb geochronology	Gondwana research	Articulo	2012
Ediacaran to lower ordovician age for rocks ascribed to the schist¿graywacke complex (iberian massif, spain): evidence from detrital zircon shrimp u¿pb geochronology	Gondwana research	Articulo	2012
Estudio mineralógico cuantitativo mediante difracción de rayos-x de rocas potásicas de la región volcánica neógena del sureste de españa: `lamproitas anómalas¿	Geogaceta	Articulo	2012
Geochemistry and petrology of metabasites of the arquia complex (santa fe de antioquia and arquia creek, colombia): geodynamic implications	Boletín de ciencias de la tierra	Articulo	2012
Hydrothermal origin and age of jadeitites from sierra del convento mélange (eastern cuba).	European journal of mineralogy	Articulo	2012
Landmark papers: granite petrogenesis	Mineralogical society of great britain and ireland	Libros	2012
Nuevos datos geocronológicos sobre la evolución tectonometamórfica de la unidad de sierra albarrana (zona de ossa-morena, so de iberia)	Geotemas	Articulo	2012
Nuevos datos geocronológicos sobre la evolución tectonometamórfica de la unidad de sierra albarrana (zona de ossa-morena, so de iberia)	Geotemas	Articulo	2012
Organic matter of fossil origin in the amberine speleothems from el soplao cave (cantabria, northern spain)	International journal of speleology	Articulo	2012
Pathways for quantitative analysis by x-ray diffraction	An introduction to the study of	Capítulo	2012

Pathways for quantitative analysis by x-ray diffraction	mineralogy	de libro	2012
Relaciones isotópicas de estroncio (87sr/86sr) en espeleotemas yesíferos de las cuevas de naica (chihuahua, méxico): implicaciones genéticas	Geo-temas	Articulo	2012
Shrimp u-pb zircon dating of the katerina ring complex: insights into the temporal sequence of ediacaran calc-alkaline to peralkaline magmatism in southern sinai, egypt	Gondwana research	Articulo	2012
The sources of energy for crustal melting and the geochemistry of heat-producing elements	Lithos	Articulo	2012
Transformation of andalusite to kyanite in the alpujarride complex	The journal of geology	Articulo	2012
Age and composition of granulite xenoliths from paso de indios, chubut province, argentina	Journal of south american earth sciences	Articulo	2011
Age and composition of granulite xenoliths from paso de indios, chubut province, argentina	Journal of south american earth sciences	Articulo	2011
Barium-rich fluids and melts in a subduction environment (la corea and sierra del convento mélanges, eastern cuba)	Contributions to mineralogy and petrology	Articulo	2011
Lamprophyre dikes as tectonic markers of late orogenic transtension timing and kinematics: a case study from the central iberian zone	Tectonics	Articulo	2011
Metasomatic stages and scapolitization effects on chemical composition of pasveh pluton, nw iran	Journal of earth science	Articulo	2011
Millstone quarries in southern spain: preliminary pinpointing of provenance and production: exploiting the internet	Bread for the people: the archaeology of mills and milling	Capítulo de libro	2011
Serpentinites and serpentinites within a fossil subduction channel: la corea mélange, eastern cuba	Geologica acta	Articulo	2011
Shrimp dating and nd isotope geology of the archean terranes of the uweinat-kamil inlier, egypt¿sudan¿libya	Precambrian research	Articulo	2011
Subduction of young oceanic plates: a numerical study with application to aborted thermal-chemical plumes	Geochemistry, geophysics, geosystems	Articulo	2011
Subduction zones of the caribbean: the sedimentary, magmatic, metamorphic and ore-deposit records unesco/iugs igcp project 546 subduction zones of the caribbean	Geologica acta	Articulo	2011
Tectonic blocks in serpentinite melange (eastern cuba) reveal large-scale convective flow of the subduction channel	Geology (boulder)	Articulo	2011
The behavior of lithium in amphibolite- to granulite-facies rocks of the ivrea¿verbano zone, nw italy	Chemical geology	Articulo	2011
The imprint of subduction fluids on subducted morb-derived melts (sierra del convento mélange, cuba)	Lithos	Articulo	2011
Timing of onset of subduction and rates of exhumation in a subduction channel: evidence from slab melts from la corea mélange (eastern cuba).	Lithos	Articulo	2011
Timing of subduction and exhumation in a subduction channel: evidence form slab melts from la corea mélange (eastern cuba)	Lithos	Articulo	2011
The bir safsaf precambrian inlier of wouth-west egypt revisited. a model for ~1.5 ga tdm late pan-african granite generation by crustal reworking	Lithos	Articulo	2011
Timing and evolution of cretaceous island arc magmatism in central cuba: implications for the history of arc systems in the northwestern caribbean.	The journal of geology	Articulo	2011
Zircon dating, sr and nd isotopes, and element			

Zircon dating, sr and nd isotopes, and element geochemistry of the khalifan pluton, nw iran: evidence for variscan magmatism in a supposedly cimmerian superterrane	Journal of asian earth sciences	Articulo	2011
Crystallization dynamics of granite magma chambers in the absence of regional stress: multiphysics modeling with natural examples	Journal of petrology	Articulo	2010
Erratum: shoshonites, vaugnerites and potassic lamprophyres: similarities and differences between ultra-high-k rocks	Royal society of edinburgh. transactions. earth sciences	Articulo	2010
Geochronological data on the rabat-tiflet granitoids: their bearing on the tectonics of the moroccan variscides	Journal of african earth sciences	Articulo	2010
Jadeitite jade occurrence from the sierra del convento mélange (eastern cuba)	Boletín de la sociedad geológica mexicana	Articulo	2010
Melting relations of morb-sediment melanges in underplated mantle wedge plumes. implications for the origin of cordilleran-type batholiths	Journal of petrology	Articulo	2010
Metamorphic and magmatic consequences of subduction of young oceanic lithosphere and exhumation in a serpentinite subduction channel. eastern cuba.	Universidad de granada. mineralogía y petrología	Tesis doctoral	2010
Metamorphic evolution of subducted hot oceanic crust, la corea mélange, cuba	American journal of science (1880)	Articulo	2010
Structural and geochronological constraints on the evolution of the bou azzer neoproterozoic ophiolite (anti-atlas, morocco)	Precambrian research	Articulo	2010
Tectonomagmatic setting and provenance of the santa marta schists, northern colombia: insights on the growth and approach of cretaceous	Journal of south american earth sciences	Articulo	2010
The paleogeographic position of central iberia in gondwana during the ordovician: evidence from zircon chronology and nd isotopes		Articulo	2010
U/pb detrital zircon provenance from late cretaceous metamorphic units of the guajira peninsula, colombia: tectonic implications on the collision between the caribbean arc and the south american margin	Journal of south american earth sciences	Articulo	2010
Zircon ages, sr-nd-hf isotopic compositions, and geochemistry of granitoids associated with the northern ophiolite mélange of central cuba: tectonic implication for late cretaceous magmatism in the northwestern caribbean	American journal of science (1880)	Articulo	2010
A new jadeitite jade locality (sierra del convento, cuba): first report and some petrological and archaeological implications.	Contributions to mineralogy and petrology	Articulo	2009
Estructura y metamorfismo de la cúpula de trinidad, escambray, cuba central	Universidad de pinar del río (cuba). geología y mecánica	Tesis doctoral	2009
Fifty-five-million-year history of oceanic subduction and exhumation at the northern edge of the caribbean plate (sierra del convento méyülange, cuba)	Journal of metamorphic geology	Articulo	2009
High-ti amphibole as a petrogenetic indicator of magma chemistry: evidence for mildlc alkalic-hybrid melts during evolution of variscan basic-ultrabasic magmatism of central iberia	Contributions to mineralogy and petrology	Articulo	2009
Intrusive magmatism during early evolutionary stages of the ural epioceanic orogen: u-pb geochronology (la icp ms, nordsim, and shrimp ii), geochemistry, and evolutionary tendencies.	Geochemistry international	Articulo	2009

Isotopic-geochemical features and age of zircons in dunitites of the platinum-bearing type uralian massifs: petrogenetic implications		Artículo	2009
Los estudios de posgrado de geología: modificaciones de su estructura y evolución	50 años de geología en la universidad de granada	Capítulo de libro	2009
Metamorfismo de los esquistos verdes y anfibolitas pertenecientes a los esquistos de santa marta, sierra nevada de santa marta (colombia): ¿registro de la colisión entre el arco caribe y la margen suramericana?	Boletín de ciencias de la tierra	Artículo	2009
Ordovician ferrosilicic magmas: experimental evidence for ultrahigh temperatures affecting a metagreywacke source	Gondwana research	Artículo	2009
Petrogenesis of granitic unit of naqadeh complex, sanandaj-sirjan zone, nw iran	Arabian journal of geosciences	Artículo	2009
Pre-variscan magmatism of the central iberian zone: chemical and isotope composition, geochronology and geodynamic significance	Universidad de granada. mineralogía y petrología	Tesis doctoral	2009
Primary ferrosilicic magmas produced by near-total melting of metagreywackes within the mantle wedge	Gondwana research	Artículo	2009
Reply to discussion on the eocene bimodal piranshahr massif of the sanandaj-sirjan zone, west iran: a marker of the end of collision in the zagros orogen	Journal of the geological society	Artículo	2009
Structure of the accretionary prism, and the evolution of the paleogene northern caribbean subduction zone in the region of camagüey, cuba.	Journal of structural geology	Artículo	2009
Shoshonites, vaugnerites and potassic lamprophyres: similarities and differences between ultra-high-k rocks	Royal society of edinburgh. transactions. earth sciences	Artículo	2009
The ~8764;844 ma moneiga quartz-diorites of the sinai, egypt: evidence for andean-type arc or rift-related magmatism in the arabian-nubian shield?	Precambrian research	Artículo	2009
The eocene bimodal piranshahr massif of the sanandaj-sirjan zone, nw iran: a marker of the end of the collision in the zagros orogen	Journal of the geological society	Artículo	2009
Tourmaline 40ar/39ar chronology of tourmaline-rich rocks from central iberia dates the main variscan deformation phases	Geologica acta	Artículo	2009
Trace elements in minerals as indicators of the evolution of alkaline ultrabasic dike series: la-icp-ms data for the magmatic provinces of northeastern fennoscandia and germany		Artículo	2009
Within-plate calc-alkaline rocks: insights from alkaline mafic magma-peraluminous crustal melt hybrid appinites of the central iberian variscan continental collision	Lithos	Artículo	2009
Zircon geochronology of the ollo de sapo formation and the age of the cambro-ordovician rifting in iberia	The journal of geology	Artículo	2009
Zircon u-pb dating of mesozoic volcanic and tectonic events in north-west palmer land and south-west graham land, antarctica	Antarctic science	Artículo	2009
A revised ordovician age for the sisargas orthogneiss, galicia (spain). zircon u-pb ion-microprobe and la-icpms dating	Geologica acta	Artículo	2008
Detrital zircon geochronology of jurassic sandstones of western cuba (san cayetano formation): implications for the jurassic paleogeography of the nw proto-caribbean	American journal of science (1880)	Artículo	2008
Estimation of pressure and temperature of intrusive rocks			

crystallisation: a case study of naqadeh, pasveh and delkeh plutons, w iran	Journal of applied sciences	Articulo	2008
Geochemical and sr-nd isotope signatures of pristine slab melts and their residues (sierra del convento melange, eastern cuba)	Chemical geology	Articulo	2008
Latest cretaceous collision/accretion between the caribbean plate and caribbeana: origin of metamorphic terranes in the greater antilles	International geology review	Articulo	2008
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The behaviour of phosphorus in granite rock series	Geohimiâ (moskva)	Articulo	1992
The geochemistry of phosphorus in granite rocks and the effect of aluminum	Lithos	Articulo	1992
Discriminación geoestadística entre series de rocas ígneas	Universidad de salamanca; facultad de ciencias	Tesis doctoral	1991
Geochemical modelling of low melt-fraction anatexis in a peraluminous system: the peña negra complex (central spain)	Geochimica et cosmochemica acta	Articulo	1991
A 21 * 2 ma age for the termination of the ductile alpine deformation in the internal zone of the betic cordilleras, south spain	Tectonophysics	Articulo	1989
Alpine tourmaline-bearing muscovite leucogneises, intrusion age and petrogenesis, betic cordilleras, se spain	Neues jahrbuch für mineralogie mh.	Articulo	1989
Petrogénesis del plutón monzogranítico peraluminico de santa eufemia (batolito de los pedroches, córdoba).	Estudios geológicos	Articulo	1989
Mineralizaciones filonianas de wolframio asociadas al plutón de santa eufemia (batolito de los pedroches, córdoba).	Boletín de la sociedad española de mineralogía	Articulo	1988
El plutón de santa eufemia (batolito de los pedroches, córdoba, españa): un granitoide epizonal de tipo s.	Geogaceta	Articulo	1987
La asociación magmática de los pedroches. ensayo de caracterización	Geogaceta	Articulo	1987
Diferentes series de rocas con afinidades granodioríticas en la sierra de gredos (batolito de ávila, sistema central español). criterios para su identificación	Stvdia geologica salmanticensia	Articulo	1985
Estudio petrológico de los granitoides del área centro-norte de la sierra de gredos (batolito de ávila; sistema central español)	Stvdia geologica salmanticensia	Articulo	1985

	Título proyecto	Tipo	Inicio	Fin
1	Uzdoc 2.0.: furthering the quality of doctoral education at higher education institutions in uzbekistan	Proyecto	3/1/16	11/30/19
2	Renovación del equipo la icp-ms del centro de instrumentación científica, universidad de granada	Proyecto	3/1/16	12/31/18
3	Herencia de circon en procesos magmaticos. mecanismos y aplicaciones al estudio del reciclado cortical y la dinamica del manto	Proyecto	3/1/14	12/31/17
4	Volcanes: estilo eruptivo; evolución pre-eruptiva y riesgo (vesper)	Proyecto	3/1/16	5/31/17
5	Descubrimiento de una provincia alcalina en el s de marruecos: geología y evaluación del potencial minero	Proyecto	3/30/14	1/30/17
6	Asesoramiento sobre el comportamiento mecánico de rocas procedentes de la excavación y rellenos realizados con estas que estarán expuestas a elevada temperatura (565°C), al constituir parte de la cimentación de tanques de sales.	Contrato	3/17/14	3/16/15
7	Evolucion y crecimiento cortical del norte de gondwana desde 3.4 ga hasta 0.2 ga	Proyecto	3/1/09	12/31/13
8	Creación del laboratorio nacional de microsonda iónica ibersim en la universidad de granada	Proyecto	3/15/08	5/27/13
9	Evolucion metamorfica en margenes de placa convergentes: desde el inicio de la subduccion oceanica hasta la colision arco-continente en los margenes de la placa del caribe	Proyecto	3/1/10	12/31/12
10	Age and thermobaric structure of subduction zones and sutures of the caribbean	Proyecto	3/1/07	12/31/11
11	Subduction zones of the caribbean	Proyecto	3/1/07	2/1/11
12	La formación del microcontinente iberia: evidencias geocronológicas e isotópicas	Proyecto	3/11/07	3/31/10
13	Evolución metamórfica en márgenes de placa convergentes: desde el inicio de la subducción oceánica hasta la colisión arco-continente en el margen septentrional de la placa del caribe, cuba	Proyecto	3/1/07	12/31/09
14	Evolucion metamorfica en margenes de placa convergentes: desde el inicio de la subduccion oceanica hasta la colision arco-continente en el margen septentrional de la placa del caribe, cuba	Proyecto	3/1/06	9/30/09
15	Aplicaciones petrologicas de la mineralogia y geoquimica de minerales accesorios	Proyecto	3/31/05	12/31/08
16	Correlación entre la evolución magmatica y tectonica en orogenos colisionales. subproyecto magmatismo y geocronologia	Proyecto	3/1/02	10/31/05
17	Ion-microprobe u-pb dating, o isotopes and ree analysis of rare zircon from the uralides, the iberia variscides and yakutian kimberlites	Proyecto	3/11/05	4/22/05
18	Trace element partitioning among major and accessory phases of plutonic alkaline rocks	Proyecto	3/1/02	12/20/03
19	El papel del magnetismo mantélico en el crecimiento y evolución cortical de dos orógenos colisionales con características opuestas: iberia y los uralés.	Proyecto	3/1/99	12/1/02
20	Evolución metamórfica y trayectorias p-t-t de terrenos acrecionados (cuba central)	Proyecto	3/1/97	10/1/00
21	Petrogenesis of the mafic alkaline complexes of kola (russia) (nato collaborative research grant)	Proyecto	3/1/98	1/1/00
22	Puesta a punto de un laboratorio analítico de isótopos radiogénicos y radioactivos. aplicaciones al estudio de la evolución litosférica del margen so de iberia	Proyecto	3/1/96	1/1/99
23	The uralide orogen a key to understanding collisional orogenesis.	Proyecto	3/1/96	1/1/99
24	Interacción corteza-manto en la zona de iveria (n de italia). un estudio combinado de ree y pge	Proyecto	3/1/96	1/1/99
25	Puesta a punto de un laboratorio de isótopos radiogénicos y radiactivos. aplicaciones al estudio de la evolución litosférica del margen so de iberia.	Proyecto	3/1/96	1/1/99
26	Puesta a punto de un laboratorio analítico de isótopos radiogénicos y	Proyecto	3/1/96	1/1/99

26	radiactivos. aplicaciones al estudio de la evolucion litosteric de la iberia.	Proyecto	3/1/96	1/1/99
27	A laser ablation icp-ms study of the distribution of u, th, y and re elements between major and accessory minerals of crustal rocks.	Proyecto	3/1/97	1/1/97
28	Compilación de una base de datos geoquímicos para el macizo ibérico. aplicaciones al estudio tipológico de la cadena.	Proyecto	3/1/86	9/1/89
29	Estudios para la caracterización petrográfica y geoquímica de materiales geológicos	Contrato	12/15/08	

Actividades 22

Título actividad	Entidad	Tipo	Fecha
Participación en comité de revista: geologica acta		Comités científicos de revista	Oct 1, 2008
Participación en comité de revista: terra nova		Comités científicos de revista	Jan 1, 2007
Erc unión europea	Erc - unión europea	Experiencia en evaluación	Jan 1, 2008
Plan nacional, micinn		Experiencia en evaluación	Jan 1, 2008
Determining the origin of exotic crustal fragments on the gondwana margin using hf techniques: natural environment research council	Natural environment research council	Experiencia en evaluación	Feb 1, 2001
Orogenic plateau magmatism: natural environment research council	Natural environment research council, ru	Experiencia en evaluación	Mar 22, 2010
Comparing mantle xenoliths from the antarctic peninsula and patagonia, a deep look beneath both regions: chilean antarctic institute	Chilean antarctic institute	Experiencia en evaluación	Jul 1, 2011
Associate editor international geology review		Comités científicos de revista	Jul 1, 2013
Exotic mineralogy and petrogenesis of variscan orogenic lampiones of the bohemian massif	Czech science foundation	Experiencia en evaluación	Jul 4, 2013
Cnai		Experiencia en evaluación	Jan 12, 2015
Cneai		Experiencia en evaluación	Jan 16, 2017
Grupo de investigación rmm302		Grupos y equipos de investigació	Jan 31, 2013
Geologica acta		Comités científicos de revista	May 15, 2013
Litosfera		Comités científicos de revista	Nov 17, 2014
Frontiers in earth science - petrology		Comités científicos de revista	Nov 24, 2017
		Grupos y	Nov

The club		Grupos y equipos de investigació	Nov 9, 2016
Associate editor terra nova		Comités científicos de revista	Jan 1, 2007
Management editor geologica acta		Comités científicos de revista	Oct 1, 2008
Member of the editorial advisory board boletín de la sociedad geológica mexicana		Comités científicos de revista	Apr 1, 2014
Experto mineco commission, ramon y cajal	Experto mineco commission, ramon y cajal	Foros y comités internacionales	Nov 1, 2015
Miembro panel pe10 ¿earth system science¿, "advanced investigators grants, european research council, ideas programme"; fp7, comisión europea.		Comité científico en sociedad ci	Jan 1, 2008
Elsevier advisory panel		Comités científicos de revista	Jun 13, 2017

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