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Grupo de Investigación: MINERALOGÍA Y GEOQUÍMICA DE LOS AMBIENTES SEDIMENTARIO Y METAMÓRFICO (Cod.: RNM179)

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Citas en Google Scholar: <https://scholar.google.es/citations?user=27PZg4IAAAAJ&hl=es>

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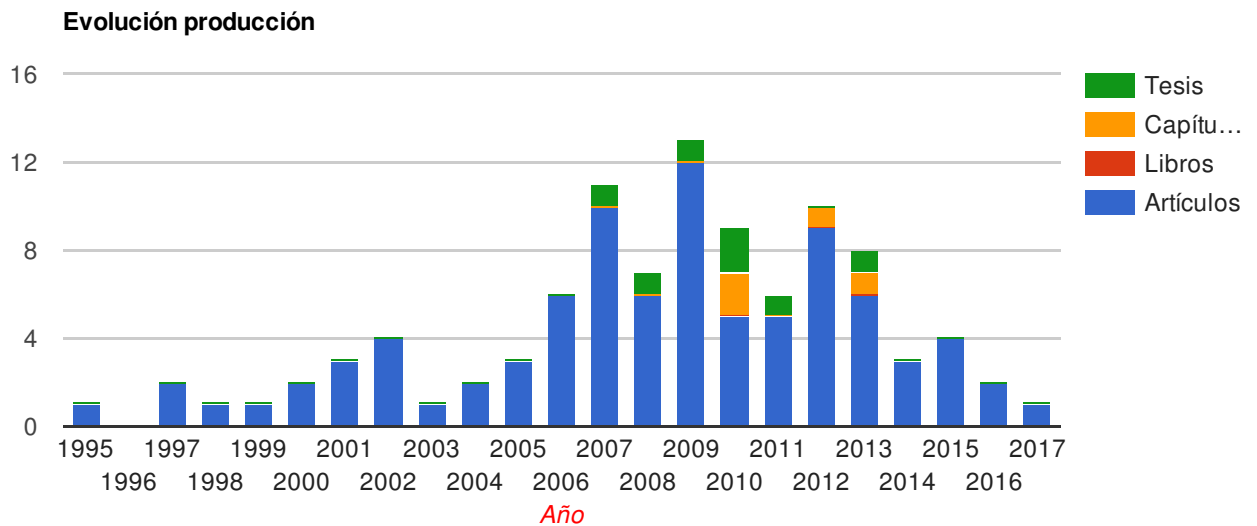
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Ficha del Directorio

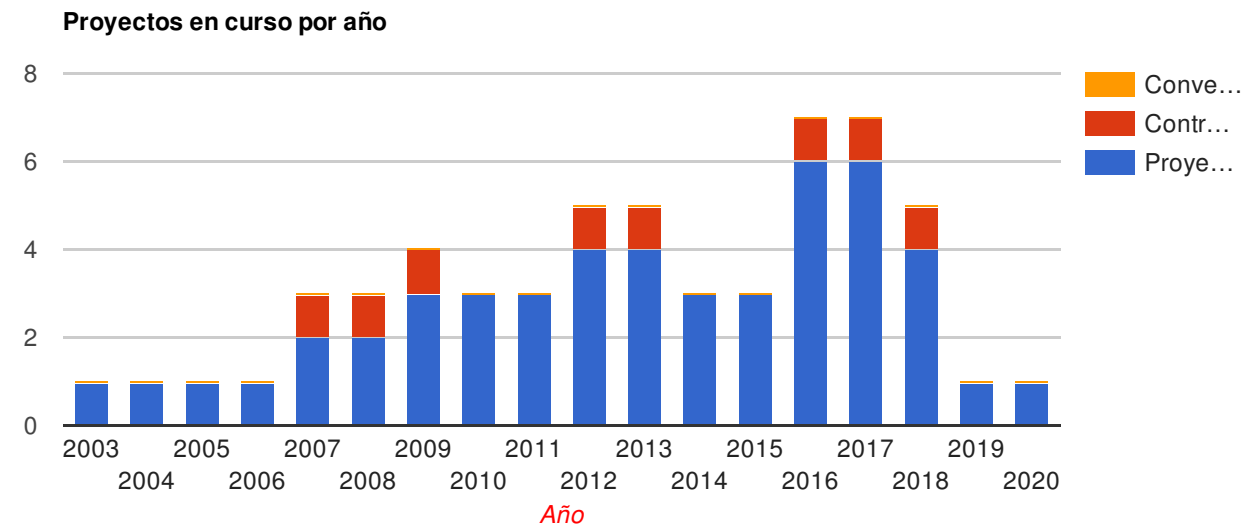
Producción 100

Artículos (89) Libros (0) Capítulos de Libros (4) Tesis dirigidas (7)



Proyectos dirigidos 13

Proyectos (10) Contratos (3) Convenios (0)



Actividades 1

Titulo publicación	Fuente	Tipo	Fecha
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	Articulo	2017
Biomineralization changes with food supply confer juvenile scallops (<i>Argopecten purpuratus</i>) resistance to ocean acidification	Global change biology	Articulo	2016
Effect of 30% hydrogen peroxide on mineral chemical composition and surface morphology of bovine enamel	Odontology	Articulo	2016
Crystallography and textural aspects of crossed lamellar layers in arcaidae (bivalvia, mollusca) shells	Key engineering materials	Articulo	2015
Importance of eggshell cuticle composition and maturity for avoiding trans-shell salmonella contamination in chicken eggs	Food control	Articulo	2015
Size control of in vitro synthesized magnetite crystals by the mamc protein of magnetococcus marinus strain mc-1.	Applied microbiology and biotechnology	Articulo	2015
To infer the early evolution of mollusc shell microstructures	Key engineering materials	Articulo	2015
Effects of lead shot ingestion on bone mineralization in a population of red-legged partridge (<i>Alectoris rufa</i>)	Science of the total environment	Articulo	2014
Ferric sulphate alterations on primary dentin and the adhesive interface	Journal of adhesive dentistry	Articulo	2014
Thermooxidative degradation of injection-moulded sepiolite/polyamide 66 nanocomposites	Mineralogical magazine	Articulo	2014
Benefits of applying spectrometric techniques and chemometric methods to identify interaction between historic painting materials	Science and technology for the conservation of cultural heritage	Capítulo de libro	2013
Change in the chicken eggshell cuticle with hen age and egg freshness	Poultry science	Articulo	2013
Change in the chicken eggshell cuticle with hen age and egg freshness	Poultry science	Articulo	2013
Geographical variation in shell morphology of juvenile snails (<i>Concholepas concholepas</i>) along the physical/chemical gradient of the Chilean coast	Journal of the marine biological association of the United Kingdom	Articulo	2013
Influence of chemical and structural factors on calcite-calcium oxalate transformation		Articulo	2013
Percentage exposure of root dentin collagen after application of two irrigation protocols with manual or rotary instrumentation and two methacrylate resin-based sealers	Journal of adhesive dentistry	Articulo	2013
Phase transitions within the lime cycle: implications in heritage conservations		Tesis doctoral	2013
Validating chemical and structural changes in painting materials by principal component analysis of spectroscopic data using internal mineral standards	Journal of cultural heritage	Articulo	2013
Automatic sample changer for the analysis of powder samples on an x-ray single-crystal diffractometer equipped with an area detector	Journal of applied crystallography	Articulo	2012
Benefits of applying spectroscopic techniques and chemometric methods to identify interaction between historic painting materials	Research advances for the conservation of cultural heritage-abstract book	Capítulo de libro	2012
Collagen-based proteinaceous binder-pigment interaction study under UV ageing conditions by MALDI-TOF-MS and principal component analysis	Journal of mass spectrometry	Articulo	2012
Crystallographic relationships in the crossed lamellar microstructure of the shell of the gastropod <i>Conus marmoreus</i>	Acta biomaterialia	Articulo	2012

Fluid-driven low-grade metamorphism in polydeformed rocks of avalonia (arisaig group, nova scotia, canada)	Swiss journal of geosciences	Articulo	2012
Genetic variation in eggshell crystal size and orientation is large and these traits are correlated with shell thickness and are associated with eggshell matrix protein markers	Animal genetics	Articulo	2012
Microtexture and genesis of clay minerals from a turbiditic sequence in a souther pyrenees foreland basin (jaca basin, eocene)	Clay minerals	Articulo	2012
Selective removal of mineral and organic components of bovine enamel by phosphoric acid	Journal of adhesive dentistry	Articulo	2012
Signatures in magnetites formed by (ca,mg,fe)co ₃ thermal decomposition: terrestrial and extraterrestrial implications	Geochimica et cosmochimica acta	Articulo	2012
The eggshell: structure, composition and mineralization	Frontiers in bioscience	Articulo	2012
Compositional and quantitative microtextural characterization of historic paintings by micro-x-ray diffraction and raman microscopy	Analytical chemistry	Articulo	2011
Demineralization effects of phosphoric acid on surface and subsurface bovine enamel bleached with in-office hydrogen peroxide.	Journal of adhesive dentistry	Articulo	2011
High dietary intake of retinol leads to bone marrow hypoxia and diaphyseal endosteal mineralization in rats	Bone	Articulo	2011
Inorganic magnetite precipitation at 25 °c: a low-cost inorganic coprecipitation method	Journal of superconductivity and novel magnetism	Articulo	2011
Interaction between historic painting materials. benefit of applying spectrometric techniques & principal component analysis	Universidad de granada. mineralogía y petrología	Tesis doctoral	2011
Influence of processing conditions on the optical and crystallographic properties of injection molded polyamide6 and polyamide6/montmorillonite nanocomposites	Applied clay science	Articulo	2011
Crystallographic control of the hydrothermal conversion of calcitic sea urchin spine (paracentrotus lividus) into apatite	Crystal growth and design	Articulo	2010
Efectos microquímicos del peróxido de hidrógeno de alta concentración y el ácido fosfórico sobre la capa superficial y subsuperficial del esmalte bovino	Universidad de granada. estomatología	Tesis doctoral	2010
Efectos microquímicos del peróxido de hidrógeno de alta concentración y del ácido fosfórico sobre la capa superficial y subsuperficial del esmalte bovino		Tesis doctoral	2010
Life history traits of the giant squid architeuthis dux revealed from stable isotopes signatures recorded in beaks	Ices journal of marine science: journal du conseil	Articulo	2010
Magnetite biomineralization induced by shewanella oneidensis	Geochimica et cosmochimica acta	Articulo	2010
Method validation of pca for accelerated thermalaging by internal standard	E-proceedings book. vii colloquium chemiometricum mediterraneum	Capítulo de libro	2010
Modificaciones cristalográficas por estrés ambiental en la ostra crassostrea gigas	Macla	Articulo	2010
Structure, propriétés et minéralisation de la coquille de l'œuf: role de la matrice organique dans le controle de sa fabrication	Inra, productions animales	Articulo	2010
Use of mineralized tissues as indicators of the effect of environmental pollution on organisms	Seminarios de la sociedad española de mineralogia	Capítulo de libro	2010
Crystalline properties of injection molded polyamide-6 and polyamide-6/montmorillonite nanocomposites	Applied clay science	Articulo	2009
Crystallographic reorganization of the calcitic prismatic layer of oysters	Journal of structural biology	Articulo	2009

Effects of 3,3',4,4',5-pentachlorobiphenyl (pcb126) on vertebral bone mineralization and on thyroxin and vitamin d levels in sprague;dawley rats	Toxicology letters	Articulo	2009
Estudios de precipitación de caco3 como herramienta para entender los procesos de biomineralización, usando como modelo biológico la cáscara de huevo de gallina	Consejo superior de investigaciones científicas. laboratorio de estudios cristalográficos	Tesis doctoral	2009
Innovative analytical methodology combining micro-x-ray diffraction, scanning electron microscopy-based mineral maps, and diffuse reflectance infrared fourier transform spectroscopy to characterize archeological artifacts	Analytical chemistry	Articulo	2009
Inorganic synthesis of fe-ca-mg carbonates at low temperatures	Geochimica et cosmochimica acta	Articulo	2009
Long-term effects of lead poisoning on bone mineralization in vultures exposed to ammunition sources	Environmental pollution	Articulo	2009
Organization and mode of secretion of the granular prismatic microstructure of entodesma navicula (bivalvia: mollusca)	Acta zoologica	Articulo	2009
Organization and model of secretion of the granular prismatic microstructure of entodesma navicula (bivalvia: mollusca)	Acta zoologica	Articulo	2009
Short-term exposure to dioxin impairs bone tissue in male rats	Chemosphere	Articulo	2009
The influence of hydrostatic pressure on shell mineralization of anodonta cygnea: a comparative study with a hydrothermal vent bivalve bathymodiolus azoricus	Journal of shellfish research	Articulo	2009
Thermal decomposition of calcite: mechanisms of formation and textural evolution of cao nanocrystals	The american mineralogist	Articulo	2009
Thermo-xrd and differential scanning calorimetry to trace epitaxial crystallization in pa6/montmorillonite nanocomposites	Materials letters	Articulo	2009
Alteración de la mineralización del hueso debida a la exposición a contaminantes (organoclorados y metales pesados)	Universidad de granada. mineralogía y petrología	Tesis doctoral	2008
Evolution of the microstructure and crystallographic orientation during shell growth in psilunio littoralis and nautilus belauensis	Mineralogical magazine	Articulo	2008
Identification of some active proteins in the process of hen eggshell formation	Crystal growth and design	Articulo	2008
Influence of eggshell matrix proteins on the precipitation of calcium carbonate (caco3)	Journal of crystal growth	Articulo	2008
Influence of model globular proteins with different isoelectric points on the precipitation of calcium carbonate	Crystal growth and design	Articulo	2008
Nanocrystalline structures in calcium carbonate biominerals	Journal of nanophotonics	Articulo	2008
Origin and expansion of foliated microstructure in pteriomorph bivalves	The biological bulletin (lancaster)	Articulo	2008
Analysis of avian eggshell microstructure using x-ray area detectors	European journal of mineralogy	Articulo	2007
Aplicación de la microdifracción de rayos x al estudio de materiales del patrimonio cultural	Macla	Articulo	2007
Bacterially mediated mineralization of vaterite	Geochimica et cosmochimica acta	Articulo	2007
Caracterización microestructural y cristalográfica de la concha prismatofoliada de pectinoidea, anomioidea y ostreoidea. implicaciones evolutivas	Universidad de granada. estratigrafía y paleontología	Tesis doctoral	2007
Crystallographic structure of the foliated calcite of bivalves	Journal of structural biology	Articulo	2007

Biomineralization:from			
Evidence for the implication of chicken eggshell matrix proteins in the process of shell mineralization	paleontology to materials science.proceedings of the 9th international symposium on biomineraliz	Articulo	2007
Microstructural analysis of mollusc shells with synchrotron x-ray microdiffraction	Macla	Articulo	2007
New method for separation of magnetite from rock samples for oxygen isotope analysis	European journal of mineralogy	Articulo	2007
Precipitation of aragonite by calcitic bivalves in mg-enriched marine waters	Marine biology	Articulo	2007
Rapid quantification of avian eggshell microstructure and crystallographic-texture using two-dimensional x-ray diffraction	British poultry science	Articulo	2007
Registering pole figures using an x-ray single-crystal diffractometer equipped with an area detector	Journal of applied crystallography	Articulo	2007
Automatic crystal size determination in the micrometer range from spotty x-ray diffraction rings of powder samples	Journal of the american ceramic society	Articulo	2006
Caracterización de la anisotropía textural de mármoles comerciales.	Macla	Articulo	2006
Caracterización de muestras policristalinas mediante difracción de rayos x con detectores bidimensionales	Macla	Articulo	2006
Effect of in ovo exposure to pcbs and hg on clapper rail bone mineral chemistry from a contaminated salt marsh in coastal georgia	Environmental science & technology	Articulo	2006
Microstructure and crystallographic-texture of giant barnacle (austromegabalanus psittacus) shell	Journal of structural biology	Articulo	2006
Quantitative analysis of bone mineral using ftir	Macla	Articulo	2006
Changes in eggshell mechanical properties, crystallographic texture and in matrix proteins induced by moult in hens	British poultry science	Articulo	2005
Self-organisation of nacre in the shells of pterioidea (bivalvia: mollusca)	Biomaterials	Articulo	2005
The nature and formation of calcitic columnar prismatic shell layers in pteriomorphian bivalves	Biomaterials	Articulo	2005
Role of marble microstructure in near-infrared laser-induced damage during laser cleaning	Journal of applied physics	Articulo	2004
Role of marble microstructure in near-infrared laser-induced damage during laser cleaning	Journal of applied physics	Articulo	2004
Influence of lysozyme on the precipitation of calcium carbonate: a kinetic and morphologic study	Geochimica et cosmochimica acta	Articulo	2003
Influence of lysozyme on the precipitation of calcium carbonate: a kinetic and morphologic study	Geochimica et cosmochimica acta	Articulo	2002
Influence of the microstructure on the shell strength of eggs laid by hens of different ages.	British poultry science	Articulo	2002
Mineral fabrics analysis using a low-cost universal stage for x-ray diffractometry	European journal of mineralogy	Articulo	2002
Mineralization of clapper rail eggshell from a contaminated salt marsh system	Archives of environmental contamination and toxicology (print)	Articulo	2002
Geometric and crystallographic constraints determining the self-organisation of shell microstructures in unionidae (bivalvia, mollusco)	Proceedings of the royal society b: biological sciences	Articulo	2001
Geometrical and crystallographic constraints determine the self-organization of shell microstructures in unionidae (bivalvia	Proceedings of the royal society b: biological sciences	Articulo	2001

: mollusca)

Model of texture development in polycrystalline films growing on amorphous substrates with different topographies	Thin solid films	Articulo	2001
Importance of electrostatic interactions between calcite surfaces and proteins	Materials research society symposium proceedings	Articulo	2000
Model of textural development of layered crystal aggregates	European journal of mineralogy	Articulo	2000
Importance of electrostatic interactions between proteins and calcite surfaces	Mat. res. soc. symp. proc.	Articulo	1999
Control of the preferred orientation of aln thin films by collimated sputtering	Journal of vacuum science and technology. a, vacuum, surfaces, and films	Articulo	1998
Development of preferred orientation in polycrystalline aln thin films deposited by rf sputtering system at low temperature	Journal of materials research	Articulo	1997
Preparation of highly oriented polycrystalline aln thin films deposited on glass at oblique-angle incidence	Journal of materials research	Articulo	1997
Textural analysis of eggshells	Materials science and engineering: c	Articulo	1995

	Título proyecto	Tipo	Inicio	Fin
1	Estudio de los mecanismos de control del proceso de biomineralización de la cáscara de huevo	Proyecto	1/1/16	12/31/18
2	Análisis de la calidad de la cáscara de huevo y de tejido óseo en gallinas en el marco del proyecto ovofortis.	Contrato	12/1/16	8/31/18
3	Betterbones: better bone quality in laying hens	Proyecto	3/1/15	2/28/18
4	Estudio de los mecanismos de control del proceso de biomineralización de la cáscara de huevo	Proyecto	1/1/16	1/1/18
5	Equipo de difracción de rayos x para microdifracción y difusión a bajo ángulo	Proyecto	1/1/16	12/31/17
6	Better bone quality in laying hens	Proyecto	3/1/15	2/28/17
7	Formación de hueso medular y cáscara de huevo como modelo de procesos dinámicos e interrelacionados de biomineralización	Proyecto	1/1/12	12/31/14
8	Formación de hueso medular y cáscara de huevo como modelo de procesos dinámicos e, interrelacionados de biomineralización	Proyecto	11/1/11	10/30/14
9	Microstructure and chemical analysis of eggs used for laser coding experiments	Contrato	3/7/12	12/31/13
10	Desarrollo de técnicas de difracción de rayos x no convencionales para el análisis composicional y microestructural de materiales policristalinos	Proyecto	1/13/09	1/13/13
11	Uso de tejidos calcificados como indicadores del efecto de la contaminación ambiental	Proyecto	10/1/07	9/30/10
12	Estudio de las características microestructurales de la cáscara de huevo de gallina y su capacidad de ser heredadas.	Contrato	11/1/07	5/31/09
13	Uso de biominerales como indicadores y registros de la contaminación	Proyecto	12/31/03	

Actividades 1

Título actividad	Fuente	Tipo	Fecha
Participación en: sociedad española de mineralogía ()		Comité científico en sociedad ci	Sep 1, 2005

Colaboradores

- JUAN MANUEL GARCIA RUIZ (17)
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- MIGUEL ORTEGA HUERTAS (7)
- SANTIAGO GONZALEZ LOPEZ (7)
- MARÍA PURIFICACIÓN SÁNCHEZ SÁNCHEZ (6)
- JAIME GÓMEZ MORALES (5)
- MARÍA VICTORIA BOLAÑOS CARMONA (4)
- NATALIA NAVAS IGLESIAS (4)
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- EDUARDO M. SEBASTIÁN PARDO (3)
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- ANA MARÍA YEBRA RODRÍGUEZ (2)
- ARANTXA MUÑOZ PEREZ DEL PULGAR (2)
- CARMEN VALVERDE TERCEDOR (2)
- ENCARNACIÓN MARÍA RUIZ AGUDO (2)
- GIUSEPPE CULTRONE (2)

- LUIS RODRIGO RODRIGUEZ SIMON (2)
- MARÍA ANTONIA FERNÁNDEZ VIVAS (2)
- ANA ISABEL AZUAGA FORTES (1)
- ENRIQUE IAÑEZ PAREJA (1)
- ESTELA PINEDA MOLINA (1)
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- FRANCISCO JAVIER CARRILLO ROSUA (1)
- ISABEL MARINA GUERRA TSCHUSCHKE (1)
- JOSÉ MANUEL DOMÍNGUEZ VERA (1)
- KERSTIN ELERT (1)
- MANUEL MONTALBÁN LÓPEZ (1)
- MARIA TERESA GONZALEZ MUÑOZ (1)
- SALVADOR CASARES ATIENZA (1)