



Miguel Ortega Huertas

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

RESEARCH INTERESTS

Main Research Line: 2007-present

Palaeoceanography and palaeoenvironments. Global Climate Change

Geochemical and mineralogical evidences for global climate change, with particular focus on Mediterranean and Atlantic marine sediment records. This line of research is based on the use of mineralogical and geochemical proxies to reconstruct of past environmental responses, including the sedimentary regime (detrital element composition of marine sediments), paleocirculation (redox conditions and bottom water ventilation) and marine productivity.

Co-precipitation of trace elements with calcite: implications for their use as climate paleoproxies focuses on the understanding of the nanoscale mechanisms of trace element (e.g., boron) incorporation into carbonates. Calcite is studied at the nanoscale using state-of-the-art techniques such as in situ atomic force microscopy. The ultimate goal is to improve the reliability of the trace element signature of carbonates as a proxy for reconstructing the chemistry of past oceans and climate.

The co-authors of the publications work in renowned International Centers of Excellence: ETH-Zürich (Switzerland); Geosciences and MARUM-Center for Marine Environmental Sciences (Utrecht-The Netherlands, and Bremen-Germany); Instituto Jaume Almera-CSIC (Barcelona, Spain), Dept. of Social Sciences (Univ. of Toronto at Scarborough-Toronto, Canada); Instituto de Ciència i Tecnologia Ambientals (Barcelona, Spain); Instituto Andaluz de Ciencias de la Tierra (CSIC-UGR, Granada, Spain); NIOZ-Royal Netherland Institute for Sea Research (Texel, The Netherlands); Scripps Institution of Oceanography (UCSD, La Jolla, USA); Biodiversität und Klima Forschungszentrum BIK-F (Frankfurt, Germany); Department of Geological and Environmental Sciences (Univ. of Stanford, USA); Institute of Marine Sciences and Earth and Planetary Sciences (Univ. of Santa Cruz, USA); JAMSTEC-Japan Agency for Marine-Earth and Technology (Yokosuka, Japan); Institut für Mineralogie (Univ. of Münster, Germany); Department of Earth Sciences-Faculty of Geosciences-Utrecht University.

This research line is related to the "Climate Action, Environment, Resource Efficiency and Raw Materials" EU action (H2020 Program) (<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/climate-action-environment-resource-efficiency-and-raw-materials>). The challenges of this action focus on the sustainable management of natural resources and the adaptation of ecosystems and society to problems induced by climate change. Similarly, the marine environment is also one of the H2020 Program priority areas (Societal Challenge 2,

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Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy) as part of the action "Focus Area Bluegrowth: Unlocking the potential of the seas and oceans" (<http://www.smartocean.org/H2020.aspx>).

This research line was funded by 11 Spanish National Research Council projects of the (total budget 1,75 M€) and 4 research excellence projects funded by the Andalusian Regional Government (total budget 460.025 €). Notably, funding was obtained from the Consolidation-Ingenio Programme 2010 (TOPO-Iberia Project) with a total budget of 4.5 million € that was coordinated by Instituto Jaume Almera (Barcelona, Spain). Furthermore, this research was also partially funded by the Research Group RNM 179 (PAIDI, Junta de Andalucía).

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

CNEAI-Research activity periods: 7 (6 + 1*)---(2014-2009*, 2008-2003, 2002-1997, 1996-1991, 1990-1985, 1984-1979, 1978-1973*). *For administrative purposes the period 2014-2009 (Full Professor) substitutes 1978-1973 (Associated Professor-Profesor Titular de Universidad).

* See attached documents certified by ANECA-CNEAI and University of Granada.

UGR-Teaching activity periods: 9 (6+3*) (*2017-2009, *2012-2008, *2007-2003, 2002-1998, 1997-1993, 1992-1988, 1987-1983, 1982-1978, 1977-1973). *For administrative purposes the periods 2017-2009, 2012-2008 and 2007-2003 (Full Professor) substitute 1987-1983, 1982-1978 and 1977-1973 (Associated Professor-Profesor Titular de Universidad).

Andalucía-Regional activity periods: 5

Web of Science

h-index: 24

Total Citations: 1942

Average Citations per item: 46,47

Average Citations per year (last five years): 132

Google Scholar

h-index: 26---i10: 48

Total Citations: 2822

During the last 10 years:

1) Supervisor of 2PhD's that obtained the Special Prize for Best PhD Thesis Experimental Sciences of the University of Granada and also the special mention "European Doctorate".

2) Co-author of 28 scholarly publications index in Journal Citation Reports. 14 of them are in the first quartil (Q1) of their corresponding subjects. In average, they were published in reference journals of the subjects Crystallography (Cryst Eng Comm, Crystal Growth and Design, Journal of Applied Crystallography, Poultry Science, ACS Applied Nano Materials), Mineralogy or Materials Science (American Mineralogist, Journal of American Ceramic Society), Geochemistry (Earth and Planetary Science Letters, Geochemistry-



Geophysics-Geosystems, Chemical Geology), or Geosciences Multidisciplinary and Palaeoceanography (Quaternary Science Reviews, Journal of the Geological Society London, Biogeosciences, Quaternary Research, Paleogeography-Palaeoclimate-Palaeoecology, The Holocene, Climate Dynamics, Global and Planetary Change, and Paleoclimatology and Paleoclimatology).

Miguel Ortega Huertas

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Current professional situation

Employing entity: University of Granada **Type of entity:** University
Department: Dpt of Mineralogy and Petrology. Faculty of Sciences
Professional category: Emeritus Professor
Start date: 01/10/2018
Type of contract: Emeritus

Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Granada	Full Professor	03/02/1996
2	University of Granada	Head-Dpt. of Mineralogy and Petrology	12/01/1996
3	University of Granada	Associate Professor	13/05/1982
4	University of Granada	Head-Dpt. of Mineralogy and Petrology	01/06/1990
5	University of Granada	Secretary-Dpt. of Mineralogy and Petrology	01/06/1986
6	University of Granada	Assistant Professor	01/01/1973
7	University of Granada	Secretary-Geology Section	1979



- 1** **Employing entity:** University of Granada **Type of entity:** University
Professional category: Full Professor
Start-End date: 03/02/1996 - 30/09/2018
- 2** **Employing entity:** University of Granada **Type of entity:** University
Professional category: Head-Dpt. of Mineralogy and Petrology
Start-End date: 12/01/1996 - 16/05/2012
- 3** **Employing entity:** University of Granada **Type of entity:** University
Department: Dpt. of Mineralogy and Petrology, Faculty of Sciences
City employing entity: Granada, Spain
Professional category: Associate Professor
Start-End date: 13/05/1982 - 02/02/1996
Type of contract: Civil servant
Dedication regime: Full time
Field of management activity: University
- 4** **Employing entity:** University of Granada **Type of entity:** University
Professional category: Head-Dpt. of Mineralogy and Petrology
Start-End date: 01/06/1990 - 08/07/1991
- 5** **Employing entity:** University of Granada **Type of entity:** University
Professional category: Secretary-Dpt. of Mineralogy and Petrology
Start-End date: 01/06/1986 - 31/05/1990
- 6** **Employing entity:** University of Granada **Type of entity:** University
Department: Dpt. of Mineralogy and Petrology, Faculty of Sciences
City employing entity: Granada, Spain
Professional category: Assistant Professor
Start-End date: 01/01/1973 - 12/05/1982
Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: University
- 7** **Employing entity:** University of Granada **Type of entity:** University
Professional category: Secretary-Geology Section
Start-End date: 1979 - 1982



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Bachelor Geological Sciences

Degree awarding entity: University of Granada

Type of entity: University

Date of qualification: 1973

Doctorates

Doctorate programme: PhD Geology

Degree awarding entity: Granada

Type of entity: University

Date of degree: 1978

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Late Holocene climate variability in the western Mediterranean: an integrated organic and inorganic multiproxy approach

Type of project: Doctoral thesis

Co-director of thesis: F. Martínez Ruiz

Entity: University of Granada. Special Prize for Best PhD Thesis Experimental Sciences 2011-2012

Student: V. Nieto Moreno

Obtained qualification: sobresaliente cum laude

Date of reading: 2012

European doctorate: Yes
- 2 Project title:** Accumulation and preservation of organic matter in marine sediments: implications in the carbon and nutrient cycles

Type of project: Doctoral thesis

Co-director of thesis: F. Martínez Ruiz

Entity: University of Granada. Special Prize for Best PhD Thesis Experimental Sciences 2006-2007

Student: D. Gallego Torres

Obtained qualification: sobresaliente cum laude

Date of reading: 2007

European doctorate: Yes

Quality recognition: Yes



- 3** **Project title:** Geochemistry and mineralogy of the Cretaceous-Tertiary boundary in the Betic Cordilleras and the Basque-Cantabrian basin
Type of project: Doctoral thesis
Co-director of thesis: I. Palomo Delgado
Entity: University of Granada **Type of entity:** University
Student: F. Martínez Ruiz
Obtained qualification: apto cum laude
Date of reading: 1993
- 4** **Project title:** Mineralogy and geochemistry of pegmatites from Sierra Albarrana (Córdoba, Spain)
Co-director of thesis: P. Fenoll Hach-Alí
Entity: University of Granada **Type of entity:** University
Student: M.M. Abad Ortega
Obtained qualification: apto cum laude
Date of reading: 1993
- 5** **Project title:** Diagenesis on the pelitic materials of the Central Zone from Basque-Cantabrian Basin (Bilbao, Spain)
Type of project: Doctoral thesis
Co-director of thesis: F. Velasco Roldan
Entity: University of País Vasco **Type of entity:** University
Student: J. Aróstegui García
Obtained qualification: apto cum laude
Date of reading: 1989
- 6** **Project title:** Mineralogy and geochemistry of the lower Jurassic pelagic sediments of Betic Cordillera (SE Spain)
Type of project: Doctoral thesis
Entity: University of Granada **Type of entity:** University
Student: I. Palomo Delgado
Obtained qualification: apto cum laude
Date of reading: 1987
- 7** **Project title:** Climate and paleoceanographic events in the westernmost Mediterranean during the last Glacial Cycle
Type of project: Doctoral thesis
Co-director of thesis: Miguel Ortega Huertas; Francisca Martínez Ruiz
Entity: University of Granada & CSIC
Student: Laura Morcillo Montalbán
European doctorate: Yes

Scientific and technological experience

Research and development groups/teams

Name of the group: Mineralogy and Geochemistry of Sedimentary and Metamorphic Environments

Name of principal investigator: M. Ortega Huertas

Standardised code: RNM179

Affiliation entity: University of Granada

Type of entity: University

Start date: 1988

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Marine Productivity oscillations in the Mediterranean: new perspectives on climate change impacts, and role of deoxygenation and eolian dust input (PROMEDED), PID2019-104624RB-100
Entity where project took place: CSIC and University of Granada (IACT). Spanish Ministry of Science, Innovation and Universities
Type of entity: Public Research Body
City of entity: Granada, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Francisca Martínez Ruiz
Nº of researchers: 6
Start-End date: 01/06/2020 - 31/05/2023
Total amount: 157.300 €
- 2** **Name of the project:** Interrelationships among marine primary production and climate variability: new perspectives and insights from Barium biogeochemistry and the global carbon cycle (P18-RT-3804)
Entity where project took place: CSIC and UGR. **Type of entity:** Public Research Body
I+D+I Project PAIDI 2020
City of entity: Granada. IACT (CSIC-UGR), Andalusia, Spain
Name principal investigator (PI, Co-PI....): Francisco Javier Rodríguez Tovar; Francisca Martínez Ruiz; Miguel Ortega Huertas; María del Mar Abad Ortega; Alberto López Galindo
Nº of researchers: 5
Start-End date: 2020 - 2023
Total amount: 108.292 €
- 3** **Name of the project:** Integrated analysis of paleoclimatic changes and atmosphere/ocean interactions: social, scientific and economic interest (CLIATOC), B-RNM-072-UGR-18
Entity where project took place: University of Granada. I+D+i Project FEDER Andalusia 2014-2020.
City of entity: Granada, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Francisco Javier Rodríguez Tovar; Francisca Martínez Ruiz; Miguel Ortega Huertas; Alberto Pérez López
Nº of researchers: 4
Start-End date: 01/01/2020 - 31/12/2021
Total amount: 26.266 €

4 **Name of the project:** Role of extracellular polymeric substances (EPS) in mineral precipitation in the ocean: implication for biogeochemical cycles (CGL2017-92600-EXP)

Entity where project took place: CSIC and University of Granada. Spanish Ministry of Science, Innovation and Universities **Type of entity:** University Research Institute

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Francisca Martínez-Ruiz

Nº of researchers: 6

Start-End date: 01/12/2018 - 01/12/2020

Total amount: 42.350 €

5 **Name of the project:** Sudden and Gradual changes in the ecosystem, control parameters and biotic/abiotic proxies: the ichnological record in the analysis of paleo-environmental variations

Entity where project took place: University of Granada

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Francisco Rodríguez Tovar

Nº of researchers: 6

Funding entity or bodies:

Spanish Ministry of Economy and Competitivity;
CGL2015-66835-P

Type of entity: Public Research Body

Start-End date: 01/01/2016 - 21/12/2019

Total amount: 130.438 €

6 **Name of the project:** Sensitivity of the marine geochemical record to climate change impacts in the Mediterranean: past climate variability scenarios and future responses

Entity where project took place: University of Granada and CSIC **Type of entity:** University Research Institute

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Francisca Martínez Ruiz

Nº of researchers: 6

Funding entity or bodies:

Universidad de Granada

Type of entity: University

Start-End date: 01/01/2016 - 31/12/2018

Total amount: 121.000 €

7 **Name of the project:** Zircon inheritance in magmatic processes. Mechanisms and applications to crustal recycling and mantle dynamics.

Entity where project took place: University of Granada **Type of entity:** Public Research Body

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Fernando Bea Barredo

Nº of researchers: 17

Funding entity or bodies:

CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA

Type of entity: Associations and Groups

Spanish Ministry of Economy and Competitivity; CGL2013-40785-P

Start-End date: 01/01/2014 - 31/05/2017

Total amount: 200.000 €



- 8** **Name of the project:** STONEPROTECT: Protection and consolidation of building stone by in situ synthesis of mineral layers.
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): E. Ruiz Agudo
Funding entity or bodies: Regional Government of Andalusia **Type of entity:** Regional
Name of the programme: Proyecto de Excelencia
Code according to the funding entity: P11-RNM-7550.
Start-End date: 27/03/2013 - 26/03/2017
Total amount: 282.242 €
- 9** **Name of the project:** Climate and palaeoceanographic events in the western Mediterranean during the last glacial cycle: geosphere-biosphere interactions and subseafloor fluids
Entity where project took place: University of Granada and CSIC
City of entity: Granada, Andalusia, Spain
Nº of researchers: 6
Funding entity or bodies: CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA **Type of entity:** Associations and Groups
Spanish Ministry of Economy and Competitivity; CGL2012-32659
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 134.000 €
- 10** **Name of the project:** Biogeochemical cycles of Barium and Carbon: records of marine productivity and global change.
Degree of contribution: Researcher
Entity where project took place: University of Granada and CSIC
Name principal investigator (PI, Co-PI....): F. Martínez Ruiz
Funding entity or bodies: Regional Government of Andalusia **Type of entity:** Regional
Name of the programme: Proyecto de Excelencia
Code according to the funding entity: RNM-05212
Start-End date: 03/02/2010 - 31/12/2014
Total amount: 267.435,68 €
- 11** **Name of the project:** Rapid climate variability during the Holocene in the western Mediterranean: regional and global climate responses.
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): F. Martínez Ruiz
Funding entity or bodies: Spanish Ministry of Science and Innovation **Type of entity:** National
Code according to the funding entity: CGL2009-07603
Start-End date: 01/10/2010 - 31/12/2012
Total amount: 147.620 €



- 12 Name of the project:** Climate variability and marine productivity: paleoarchives and climate change scenarios.
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): F. Martínez Ruiz
Funding entity or bodies: Spanish Ministry of Environment **Type of entity:** National
Code according to the funding entity: 2008-00050084447
Start-End date: 17/12/2008 - 17/12/2011
Total amount: 84.000 €
- 13 Name of the project:** Advance on the characterization of phyllosilicate assemblages, fabrics and crystalchemistry in low temperature environments. New methodologies and geological and hydrogeological uses.
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): F. Nieto García
Funding entity or bodies: Spanish Ministry of Education and Science **Type of entity:** National
Code according to the funding entity: CGL2007-66744-C02-01/BTE
Start-End date: 01/10/2007 - 30/09/2010
Total amount: 99.220 €
- 14 Name of the project:** New methodologies for durability and geographic tracing (origin) of Andalusian marbles to be used as ornamental stones and implications for the conservation of Cultural Heritage.
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): E. Sebastián Pardo
Funding entity or bodies: Regional Government of Andalusia **Type of entity:** Regional
Name of the programme: Proyecto de Excelencia
Code according to the funding entity: 2006-FQM 1635
Start-End date: 01/03/2007 - 01/03/2010
Total amount: 154.536,3 €
- 15 Name of the project:** Geosciences in Iberia: integrated studies of topography and 4D evolution (TOPO-IBERIA)
Degree of contribution: Researcher
Entity where project took place: CSIC-Universities of Granada, Barcelona, etc. **Type of entity:** University Centres and Structures and Associated Bodies
Name principal investigator (PI, Co-PI....): J. Gallart Muset
Funding entity or bodies: Spanish Ministry of Education and Science **Type of entity:** National
Name of the programme: Programa Consolider-Ingenio 2010
Code according to the funding entity: CSD2006-00041

**Start-End date:** 2006 - 2010**Duration:** 5 years**Total amount:** 4.500.000 €

- 16 Name of the project:** Rapid climate changes in the Iberian Peninsula based on proxy calibration, long term instrumental series and high resolution analyses of marine records.

Degree of contribution: Researcher**Entity where project took place:** University of Granada and CSIC**Name principal investigator (PI, Co-PI....):** F. Martínez Ruiz**Funding entity or bodies:**

Spanish Ministry of Education and Science

Type of entity: National**Code according to the funding entity:** CGL2006-13327-CO4-04**Start-End date:** 01/10/2006 - 30/09/2009**Total amount:** 88.330 €

- 17 Name of the project:** Geochemical proxies for environmental reconstruction: Implications for global change

Geographical area: Regional**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** University of Granada**Type of entity:** University**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Regional Government of Andalusia

Type of entity: Regional**Name of the programme:** Proyecto de Excelencia**Code according to the funding entity:** 2005-RNM 432**Start-End date:** 01/02/2006 - 31/01/2009**Total amount:** 93.400 €

- 18 Name of the project:** Skill evaluation of the future Science B.A. degree.

Geographical area: National**Degree of contribution:** Scientific coordinator**Entity where project took place:** Universities of Córdoba and Granada**Type of entity:** University**Name principal investigator (PI, Co-PI....):** M. Valcárcel Cases**Funding entity or bodies:**

Spanish Ministry of Education and Science

Type of entity: National**Code according to the funding entity:** EA2007-0243**Start-End date:** 01/05/2007 - 30/04/2008**Total amount:** 38.390 €

- 19 Name of the project:** Assessment of the Black Sea sedimentary system since the last glacial extreme

Geographical area: European Union**Degree of contribution:** Researcher**Entity where project took place:** University of Granada and CSIC**Name principal investigator (PI, Co-PI....):** F. Martínez Ruiz**Funding entity or bodies:**

European Union

Type of entity: European**Code according to the funding entity:** EVK3-CT-2002-0090**Start-End date:** 2003 - 2006**Total amount:** 85.759 €

- 20** **Name of the project:** Climate variability in the since the last glacial maximum: high-resolution analysis of marine records and implications for present and future understanding climate changes
Degree of contribution: Researcher
Entity where project took place: University of Granada and CSIC
Name principal investigator (PI, Co-PI....): F. Martínez Ruiz
Funding entity or bodies:
Spanish Ministry of Science and Technology **Type of entity:** National
Code according to the funding entity: REN2003-09130-C02-01
Start-End date: 2003 - 2006
Total amount: 138.000 €
- 21** **Name of the project:** The alteration of geochemical cycles as a response to catastrophic geological events. New geochemical and mineralogical criteria applied to the Cretaceous-Tertiary Boundary.
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
Spanish Ministry of Science and Technology **Type of entity:** National
Code according to the funding entity: BTE2000-1493
Start-End date: 2001 - 2004
Total amount: 41.305 €
- 22** **Name of the project:** Geochemical and biotic proxies for climate variability in the Western Mediterranean during the last 20.000 years
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: University of Granada and CSIC
Name principal investigator (PI, Co-PI....): F. Martínez Ruiz
Funding entity or bodies:
Spanish Ministry of Science and Technology **Type of entity:** National
City funding entity: Granada, Spain
Code according to the funding entity: REN2000-0798HID
Start-End date: 2000 - 2003
Total amount: 70.342 €
- 23** **Name of the project:** Thermocronology techniques applications through fission tracks in apatite to hydrocarbon exploration. development methodology and application study of the Tt in the Mesozoic Prebetic Basin.
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: Universities of Granada and Cádiz
Name principal investigator (PI, Co-PI....): L. Barbero González
Funding entity or bodies:
Spanish Ministry of Education and Science **Type of entity:** National
Code according to the funding entity: Proyecto FEDER (1FD97-0732)
Start-End date: 1999 - 2001
Total amount: 121.705 €

- 24** **Name of the project:** Mineralogy and geochemistry of new sections on Cretaceous-Tertiary boundary in the NO Atlantic (ODP, leg 171B). Comparison between sequences in the NE Atlantic and Mediterranean.
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: University of Granada and CSIC
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
Spanish Ministry of Education and Science **Type of entity:** National
Code according to the funding entity: PB96-1429
Start-End date: 1997 - 2000
Total amount: 30.000 €
- 25** **Name of the project:** Geochemical evolution of the organic activity during the lower and medium Jurassic in the western Tethys (Spain and Italy)
Degree of contribution: Researcher
Entity where project took place: Universities of Granada and Perugia **Type of entity:** University
Name principal investigator (PI, Co-PI....): I. Palomo Delgado
Funding entity or bodies:
Spanish Ministry of Education and Science **Type of entity:** National
Name of the programme: Acción Integrada
Start-End date: 1995 - 1997
- 26** **Name of the project:** Mesozoic and Paleogene geochemical and mineralogical anomalies in western Mediterranean alpine chains. Applications for basin analysis.
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: University of Granada
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
Spanish Ministry of Education and Science **Type of entity:** National
Code according to the funding entity: PB-92-0960
Start-End date: 01/06/1993 - 01/06/1996
Total amount: 31.553 €
- 27** **Name of the project:** Mineralogical, crystalchemical and microstructural criteria for the evaluation of low-temperature metamorphism and diagenesis grade.
Degree of contribution: Researcher
Entity where project took place: University of Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): F. Nieto García
Funding entity or bodies:
Spanish Ministry of Education and Science **Type of entity:** National
Code according to the funding entity: PB-92-0961
Start-End date: 01/06/1993 - 01/06/1996
Total amount: 27.045 €
- 28** **Name of the project:** Geological events associated with the Paleocene/Eocene boundary and the definition of the boundary stratotype.
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: Centre National de la Recherche Scientifique



City of entity: France

Name principal investigator (PI, Co-PI....): Marie P Aubry

Funding entity or bodies:

UGS-UNESCO

Type of entity: National

Start-End date: 1990 - 1995

- 29 Name of the project:** Mineralogical and Geochemical transformations on phyllosilicates during diagenesis and lower metamorphic grade

Degree of contribution: Researcher

Entity where project took place: Universities of Lille **Type of entity:** University and Granada

Name principal investigator (PI, Co-PI....): F. Nieto García

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Name of the programme: Acción Integrada Hispano-Francesa

Code according to the funding entity: 234B

Start-End date: 01/01/1994 - 31/12/1994

- 30 Name of the project:** Geochemical anomalies in the Cretaceous-Tertiary and Paleocene-Eocene boudnaries. Comparative study of stratigraphical sequences in Spain, Italy and France.

Degree of contribution: Scientific coordinator

Entity where project took place: CSIC and University of Granada

Name principal investigator (PI, Co-PI....): M. Ortega Huertas

Start-End date: 01/01/1993 - 31/12/1994

- 31 Name of the project:** Evolution and correlation of Epicratonic Peritethyan Basins.

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universities of Granada and Paris VI **Type of entity:** University

Name principal investigator (PI, Co-PI....): J. Dercourt

Funding entity or bodies:

European Union

Type of entity: European

Start-End date: 1993 - 1994

- 32 Name of the project:** Mineralogical and Geochemical transformation on phyllosilicates during diagenesis and lower metamorphic grade

Degree of contribution: Researcher

Entity where project took place: Universities of Lille **Type of entity:** University and Granada

Name principal investigator (PI, Co-PI....): F. Nieto García

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Name of the programme: Spanish-French Integrated Actions

Code according to the funding entity: 81B

Start-End date: 01/01/1993 - 31/12/1993

- 33 Name of the project:** Continental margins from S and W Iberia during the upper Jurassic and the lower-middle Cretaceous. Integrated basin analysis.

Degree of contribution: Researcher

Entity where project took place: University of Granada

Type of entity: University

Name principal investigator (PI, Co-PI....): M.C. Comas Minondo

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Code according to the funding entity: PB-87-0271

Start-End date: 1988 - 1993

Total amount: 46.440 €

34 Name of the project: Mineralogical and geochemical transformations from diagenesis to low-grade metamorphism.

Degree of contribution: Researcher

Entity where project took place: University of Granada

Type of entity: University

Name principal investigator (PI, Co-PI....): F. Nieto García

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Code according to the funding entity: PB-87-022801

Start-End date: 1988 - 1993

Total amount: 46.518 €

35 Name of the project: Geochemistry of stable isotopes, Pt group elements and REE distribution. Application of Basin Analysis.

Degree of contribution: Scientific coordinator

Entity where project took place: Universities of Granada, Rome, Bari and Pavia

Type of entity: University

Name principal investigator (PI, Co-PI....): M. Ortega Huertas

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Name of the programme: Spanish-Italian Integrated Actions

Code according to the funding entity: 9A

Start-End date: 01/01/1992 - 31/12/1992

36 Name of the project: Mineralogy and Geochemistry of Mesozoic anoxic and Cretaceous-Tertiary sediments. Application to the study of the alpine mediterranean basins.

Degree of contribution: Scientific coordinator

Entity where project took place: Universities of Granada, Bari and Pavia

Name principal investigator (PI, Co-PI....): M. Ortega Huertas

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National

Name of the programme: Spanish-Italian Integrated Actions

Code according to the funding entity: 8A

Start-End date: 01/01/1991 - 31/12/1991

37 Name of the project: Mineralogy and Geochemistry of Mesozoic anoxic and Cretaceous-Tertiary sediments.

Degree of contribution: Scientific coordinator

Entity where project took place: Universities of Granada, Bari and Pavia

Type of entity: University

Name principal investigator (PI, Co-PI....): M. Ortega Huertas

Funding entity or bodies:

Spanish Ministry of Education and Science

Type of entity: National**Name of the programme:** Acción Integrada Hispano-Italiana**Code according to the funding entity:** 66**Start-End date:** 01/01/1990 - 31/12/1990

- 38** **Name of the project:** Mineralogy and Geochemistry of Jurassic and Cretacic pelagic marine sediments from the Betic Cordillera (SE Spain). Comparative study to other italian basins.

Degree of contribution: Scientific coordinator**Entity where project took place:** Universities of Granada, Bari and Pavia**Type of entity:** University**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Spanish Ministry of Education of Science

Type of entity: National**Name of the programme:** Spanish-Italian Integrated Action**Code according to the funding entity:** 41**Start-End date:** 01/01/1989 - 31/12/1989

- 39** **Name of the project:** Clay minerals and other materials from the Guadalquivir Basin. Geological meaning, physicochemical properties and industrial applications.

Geographical area: Regional**Degree of contribution:** Scientific coordinator**Entity where project took place:** Universities of Sevilla and Granada**Type of entity:** University**Name principal investigator (PI, Co-PI....):** F. González García**Funding entity or bodies:**

Regional Government of Andalusia

Type of entity: Regional**Name of the programme:** Coordinated Project**Start-End date:** 1986 - 1988

- 40** **Name of the project:** Sedimentological and Mineralogical analyses and tecto-sedimentary evolution of the Eastern Betic Basins.

Degree of contribution: Researcher**Entity where project took place:** University of Granada**Type of entity:** University**Name principal investigator (PI, Co-PI....):** A.C. López Garrido**Funding entity or bodies:**

Spanish Ministry of Education and Science

Type of entity: National**Code according to the funding entity:** Proyecto 608/464**Start-End date:** 1985 - 1987**Total amount:** 41.529 €

- 41** **Name of the project:** Structural, Sedimentological, Mineralogical and Tectonic of the S and SE Peninsular Neogene-Quaternary Basins.

Degree of contribution: Scientific coordinator**Entity where project took place:** Universities of Granada, Barcelona and CSIC**Type of entity:** University Centres and Structures and Associated Bodies**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Spanish Ministry of Education and Science

Type of entity: National



Code according to the funding entity: Proyecto 21105

Start-End date: 1982 - 1985

- 42 Name of the project:** Role of extracellular polymeric substances (EPS) in mineral precipitation in the ocean: implication for biogeochemical cycles (CGL2017-92600-EXP)
Nº of researchers: 4

R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Strontium ore deposits in the provinces of Granada, Jaén and Murcia
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
 Almadén Mine Group **Type of entity:** Business
Start date: 01/04/1997 **Duration:** 3 months
- 2 Name of the project:** Mineralogical studies on geological samples
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
 INGEMISA **Type of entity:** Business
Start date: 01/01/1993 **Duration:** 6 months
- 3 Name of the project:** Mineralogical and geochemical studies of clay minerals. Their industrial interest.
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
 Basque Government-EVE **Duration:** 2 months
Start date: 01/10/1992
- 4 Name of the project:** Mineralogical researches on fibrous clay minerals
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): I. Palomo Delgado; E.M. Sebastián Pardo; M. Ortega Huertas
Funding entity or bodies:
 E. Garcés S.A. **Type of entity:** Business
Start date: 01/03/1992 **Duration:** 2 months
- 5 Name of the project:** Mineralogical studies on fibrous clays in the Basque Basin.
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): M. Ortega Huertas
Funding entity or bodies:
 Basque Government-EVE **Duration:** 12 months
Start date: 01/01/1991
- 6 Name of the project:** Mineralogical studies on fibrous clays in the Basque Basin
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): M. Ortega Huertas

Funding entity or bodies:

Basque Government-EVE

Start date: 01/01/1990**Duration:** 12 months

- 7** **Name of the project:** Mineralogical researches on Precambrian and Cambrian rocks in Cangas de Narcea area (Asturias)

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** F. Nieto García; M. Ortega Huertas**Funding entity or bodies:**

Egeo, S.A.

Type of entity: Business**City funding entity:** Madrid, Community of Madrid, Spain**Start date:** 01/01/1988**Duration:** 12 months

- 8** **Name of the project:** Geological and mineralogical studies of celestite and strontianite mineralizations in Granada Basin

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Kali-Chemie Aktiengesellschaft de Hannover (RFA).

Type of entity: Business**Start date:** 01/01/1987**Duration:** 12 months

- 9** **Name of the project:** Geological, geochemical and mineralogical studies of strontium mineralizations in Granada Basin

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Kali-Chemie Aktiengesellschaft de Hannover (RFA).

Type of entity: Business**Start date:** 01/01/1986**Duration:** 12 months

- 10** **Name of the project:** Geological, geochemical and mineralogical studies of strontium mineralizations in Granada Basin

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Kali-Chemie Aktiengesellschaft de Hannover (RFA).

Type of entity: Business**Start date:** 01/01/1983**Duration:** 12 months

- 11** **Name of the project:** Geology, geochemistry and mineralogy of feldspars and feldspathic rocks in the N of the provinces of Córdoba and Sevilla and S-SE of Badajoz.

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**

Ecominsa

Type of entity: Business**Start date:** 01/01/1983**Duration:** 12 months

- 12** **Name of the project:** Geological, geochemical and mineralogical studies of strontium mineralizations in Granada Basin

Degree of contribution: Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas

**Funding entity or bodies:**Kali-Chemie Aktiengesellschaft de Hannover (RFA). **Type of entity:** Business**Start date:** 01/01/1982**Duration:** 12 months**13 Name of the project:** Methodology and systematic of clay minerals identification**Degree of contribution:** Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** E. Galán; M. Ortega Huertas; M. Doval**Funding entity or bodies:**

Tolsa, S.A.

Type of entity: Business**City funding entity:** Madrid, Community of Madrid, Spain**Start date:** 01/01/1982**Duration:** 24 months**14 Name of the project:** Geological, geochemical and mineralogical studies of strontium mineralizations in Granada Basin**Degree of contribution:** Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** M. Ortega Huertas**Funding entity or bodies:**Kali-Chemie Aktiengesellschaft de Hannover (RFA). **Type of entity:** Business**Start date:** 01/01/1980**Duration:** 12 months

Scientific and technological activities

Scientific production

H index: 24**Date of application:** 01/02/2022**Fuente de Índice H:** WOS

Publications, scientific and technical documents

- 1** Laura Morcillo Montalbá; Marta Rodrigo Gámiz; Francisca Martínez Ruiz; Miguel Ortega Huertas; S Schouten; JS Sinninghe Damsté; J S Sinninghe Damsté; S Schouten; JS Sinninghe Damsté; J S Sinninghe Damsté; S Schouten; J.S. Sinninghe Damsté; S Schouten; J.S. Sinninghe Damsté; S Schouten. Rapid Climate Changes in the Westernmost Mediterranean (Alboran Sea) Over the Last 35 kyr: New Insights From Four Lipid Paleothermometers (Uk37, TEXH86, RI-OH', and LDI). *Paleoceanography and Paleoclimatology*. 36 - 12, pp. 1 - 27. AGU Advancing Earth and Space Science-USA, 2021.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No

- 2** FJ Jiménez-Espejo; M Presti; G Kuhn; R Mckay; C Crosta; C Escutia; RG Lucchi; R Tolotti; T Yoshimura; M Ortega Huertas; P Macri; A Caburlotto; L De Santis. Late Pleistocene oceanographic and depositional variations along the Wilkes Land margin (East Antarctic) reconstructed with geochemical proxies in deep-sea sediments. *Global and Planetary Change*. 184, pp. 103045. Elsevier, 2020.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No

- 3** Claudia Sosa-Montes de Oca; Gert J de Lange; Francisca Martínez Ruiz; Miguel Ortega Huertas; Francisco J Rodríguez Tovar. Microscale trace-element distribution across the Cretaceous/Paleogene ejecta layer at the Agost section: constraining the recovery of pre-impact conditions. *Chemical Geology*. 533, pp. 119431. Elsevier, 2020.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** Alejandro Burgos Cara; Carlos Rodríguez Navarro; Miguel Ortega Huertas; Encarnación Ruiz Agudo. Bioinspired alkoxysilane conservation treatments based on amorphous calcium carbonate and oxalate nanoparticles. *ACS Applied Nano Materials*. 2, pp. 4954 - 4967. 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 5** Marta Rodrigo Gámiz; Francisca Martínez Ruiz; Francisco J Rodríguez Tovar; Eulogio Pardo-Igúzquiza; Miguel Ortega Huertas. Appraising timing response of paleoenvironmental proxies to the Bond cycle in the western Mediterranean over the last 20 kyr. *Climate Dynamic*- DOI10.1017/s00382-017-3782-y. Springer, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 6** Alejandro Bugos Cara; CV Putnis; Miguel Ortega Huertas; Encarnación Ruiz Agudo. Influence of pH and citrate on the formation of oxalate layers on calcite revealed by in situ nanoscale imaging. *Cryst Eng Comm*. 19, pp. 3420 - 3429. The Royal Society of Chemistry, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 7** Ruiz Agudo Encarnación; Álvarez Lloret Pedro; Ibáñez Velasco Aurelia; Ortega Huertas Miguel. Crystallographic Control in the Replacement of Calcite by Calcium Sulfates. *Crystal Growth and Design*. 16, pp. 4950 - 4959. ACS Publications-American Chemical Society, 2016.
Type of production: Scientific paper **Format:** Journal
- 8** 1; Vanesa Nieto Moreno; Francisca Martínez Ruiz; David Gallego Torres; Santiago Giralte; Javier García Orellana; Pere Masqué; JS Sinninghe Damsté; Miguel Ortega Huertas. Palaeoclimate and palaeoceanographic conditions in the westernmost Mediterranean over the last millennium: an integrated organic and inorganic approach. *Journal of the Geological Society*. London. 172, pp. 264 - 271. 2015.
Type of production: Scientific paper **Format:** Journal
- 9** Francisca Martínez Ruiz; Mirian Kastner; David Gallego Torres; Marta Rodrigo Gámiz; Vanesa Nieto Moreno; Miguel Ortega Huertas. Paleoclimate and Paleooceanography Over the Past 20,000 yr in the Mediterranean Sea Basins as Indicated by Sediment Elemental Proxies. *Quaternary Science Reviews*. 107, pp. 25 - 46. 2015.
Type of production: Scientific paper **Format:** Journal
- 10** David Gallego Torres; Oscar E Romero; Francisca Martínez Ruiz; Kim Jung-Hyun; Barbara Donner; Miguel Ortega Huertas. Rapid bottom-water circulation changes during the last glacial cycle in the coastal low-latitude NE Atlantic. *Quaternary Research*. 81 - 2, pp. 330 - 338. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
- 11** Julia Romero Pastor; José Vicente Navarro; Marian del Egidio; Miguel Ortega Huertas. A Nondestructive Methodology for the Study of Colored Enamels: Insights into Manufacturing and Weathering Processes. *Journal of American Ceramic Society-J. Am. Ceram. Soc.* 96 - 7, pp. 2132 - 2140. The American Ceramic Society, 2013.
Type of production: Scientific paper **Format:** Journal
- 12** Alejandro Rodríguez Navarro; Nazaret Domínguez Gasca; Arantxa Muñoz; Miguel Ortega Huertas. Change in the chicken eggshell cuticle with hen age and egg freshness. *Poultry Science*. 92 - 11, pp. 3026 - 3035. 2013.
Type of production: Scientific paper **Format:** Journal

- 13** Vanesa Nieto Moreno; Francisca Martínez Ruiz; Santiago Giralt; David Gallego Torres; Jordi García Orellana; Pere Masqué; Miguel Ortega Huertas. Climate imprints during the "Medieval Climate Anomaly" and the "Little Ice Age" in marine records from the Alborán Sea basin. *The Holocene*. 23 - 9, pp. 1227 - 1237. SAGE Publications, 2013.
Type of production: Scientific paper **Format:** Journal
- 14** A Rodríguez Navarro; K Kudlacz; M Ortega Huertas. 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*. 45, pp. 135 - 137. 2012.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 15** E. Ruiz Agudo; C.V. Putnis; M. Kowacz; M. Ortega Huertas; A. Putnis. Boron incorporation into calcite during growth: implications for the use of boron in carbonates as a pH proxy. *EARTH AND PLANETARY SCIENCE LETTERS*. 345 - 248, pp. 9 - 17. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 16** V. Moreno Nieto; F. Martínez Ruíz; F. Jiménez; D. Gallego; M. Rodrigo; J. García; M. Ortega Huertas; G.J. De Lange. Tracking climate variability in the western Mediterranean during the Late Holocene: a multiproxy approach. *CLIMATE OF THE PAST*. 7, pp. 1395 - 1414. Copernicus Publications, 2011.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 17** D. Gallego Torres; F. Martínez Ruíz; P.A. Mayers; A. Paytan; F.J. Jiménez Espejo; M. Ortega Huertas. Productivity patterns and N-fixation associated with Pliocene-Holocene sapropels: paleoceanographic and paleoecological significance. *BIOGEOSCIENCES*. 8, pp. 415 - 431. Copernicus Publications, 2011.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 18** P. Álvarez Lloret; F. Martínez Ruíz; A. Rodríguez Navarro; G. Falini; S. Fermani; M. Ortega Huertas. Crystallographic Control on the Hydrothermal Conversion of Calcitic Sea Urchin Spine (*Paracentrotus lividus*) into Apatite. *CRYSTAL GROWTH DESIGN*. 10, pp. 5227 - 5232. ACS Publications, 2010.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 19** D. Gallego Torres; F. Martínez Ruíz; G. De Lange; F.J. Jiménez Espejo; M. Ortega Huertas. Trace-element derived paleoceanographic and paleoclimatic conditions for Pleistocene Eastern Mediterranean sapropels. *PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY*. 293, pp. 76 - 89. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 20** C. Rodríguez Navarro; E. Ruiz Agudo; A. Luque; A.B. Rodríguez Navarro; M. Ortega Huertas. Thermal decomposition of calcite: mechanisms of formation and textural evolution of CaO nanocrystals. *AMERICAN MINERALOGIST*. 94, pp. 578 - 593. Mineralogical Society of America, 2009.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI



- 21** F.J. Jiménez Espejo; F. Martínez Ruiz; M. Rogerson; J.M. González Donoso; O. Romero; D. Linares; T. Sakamoto; D. Gallego Torres; J.L. Rueda; M. Ortega Huertas; J.A. Pérez Claros. Detrital input, productivity fluctuations, and water mass circulation in the westernmost Mediterranean Sea since the Last Glacial Maximum. GEOCHEMISTRY, GEOHYSICS, GEOSYSTEMS. pp. 9 - 1. AGU Journals, 2008. Available on-line at: <doi:10.1029/2008GC002096>.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 22** F.J. Jiménez Espejo; F. Martínez Ruiz; C. Finlayson; A. Paytan; T. Sakamoto; M. Ortega Huertas; G. Finalyson; K. Iijima; D. Gallego Torres; D. Fa. Climate forcing and Neanderthal extinction in Southern Iberia: Insights from a multiproxy marine record. QUATERNARY SCIENCE REVIEWS. 26, pp. 836 - 852. Elsevier, 2007.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 23** G. Cultrone; E. Sebastián; M. Ortega Huertas. Durability of masonry systems: A laboratory study. CONSTRUCTION AND BUILDING MATERIALS. 21, pp. 40 - 51. Elsevier, 2007.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 24** D. Gallego-Torres; F. Martínez Ruiz; A. Paytan; F. Jiménez Espejo; M. Ortega Huertas. Pliocene-Holocene evolution of depositional conditions in the eastern Mediterranean: role of anoxia vs. productivity at time of sapropel deposition. PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY. 2007.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 25** F. Bea; P. Montero; M. Ortega Huertas. A LA-ICPMS evaluation of Zr reservoirs in common crustal rocks: implications for Zr and Hf geochemistry, and zircon-forming processes. CANADIAN MINERALOGIST. 44, pp. 693 - 714. Mineralogical Association of Canada (MAC), 2006.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 26** A. Rodríguez Navarro; P. Álvarez Lloret; Miguel Ortega Huertas; M. Rodríguez Gallego. Automatic crystal size determination in the micrometer range from spotty X-ray diffraction rings of powder samples. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 89, pp. 2232 - 2238. Wiley-Blackwell, 2006.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 27** A. Rodríguez Navarro; C. Cabral de Melo; N. Batista; N. Morimoto; P. Álvarez Lloret; M. Ortega Huertas. Microstructure and crystallographic-texture of giant barnacle (Austromegabalanus psittacus) shell. JOURNAL OF STRUCTURAL BIOLOGY. 156, pp. 355 - 362. Elsevier, 2006.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 28** F. Martínez Ruiz; M. Ortega Huertas; P. Rivas. Rare earth element composition as evidence of the precursor material of Cretaceous-Tertiary boundary sediments at distal sections. CHEMICAL GEOLOGY. 232, pp. 1 - 11. Elsevier, 2006.
Type of production: Scientific paper **Format:** Journal

Impact source: ISI

- 29** G. Bagur; M. Sánchez Viñas; D. Gázquez; M. Ortega Huertas; R. Romero. Estimation of the uncertainty associated with the standard addition methodology when a matrix effect is detected. *TALANTA*. 66, pp. 1168 - 1174. Elsevier, 2005.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 30** G. Cultrone; E. Sebastián; M. Ortega Huertas. Forced and natural carbonation of lime-based mortars with and without additives: Mineralogical and textural changes. *CEMENT AND CONCRETE RESEARCH*. 35, pp. 2278 - 2289. Elsevier, 2005.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 31** C. Rodríguez Navarro; E. Ruiz Agudo; M. Ortega Huertas; E. Hansen. Nanostructure and irreversible colloidal behavior of Ca (OH)₂: Implications in cultural heritage conservation. *LANGMUIR*. 21, pp. 10948 - 10957. ACS Publications, 2005.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 32** R. Romero; M.G. Bagur; M. Sánchez Viñas; L. Cuadros; M. Ortega Huertas. Estimation of the main sources of uncertainty in chromatographic analysis: Determination of Biogenic Amines. *LCGC NORTH AMERICA*. 22, pp. 151 - 163. 2004.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 33** M. Ortega Huertas; F. Martínez Ruiz; I. Palomo; H. Chamley. Review of the mineralogy of the Cretaceous-Tertiary boundary clay: evidence supporting a major extraterrestrial catastrophic event. *CLAY MINERALS*. 37, pp. 395 - 411. GeoScienceWorld, 2002.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 34** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo; J. Smit. The Cretaceous-Tertiary boundary at Blake Nose (ODP Leg 171 B): A record of the Chicxulub impact ejecta. *GEOLOGICAL SOCIETY OF AMERICA, SPECIAL PAPER*. 356, pp. 189 - 199. GSA Publications, 2002.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 35** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo. Climate, tectonics and meteoritic impact expressed by clay mineral sedimentation across the Cretaceous-Tertiary boundary at Blake Nose, Northwestern Atlantic. *CLAY MINERALS*. 36, pp. 49 - 60. GeoScienceWorld, 2001.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 36** F. Martínez Ruiz; M. Ortega Huertas; D. Kroon; J. Smit; I. Palomo; R. Rocchia. Geochemistry of the Cretaceous-Tertiary boundary at Blake Nose (ODP Leg 171B). *GEOLOGICAL SOCIETY LONDON, SPECIAL PUBLICATIONS*. 183, pp. 131 - 148. The Geological Society, 2001.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 37** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo; J. Smit. K-T boundary spherules from Blake Nose (ODP Leg 171B) as a record of the Chicxulub ejecta deposits. GEOLOGICAL SOCIETY LONDON, SPECIAL PUBLICATIONS. 183, pp. 149 - 161. The Geological Society, 2001.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 38** F. Martínez Ruiz; M. Kastner; A. Paytan; M. Ortega Huertas; S. Bernasconi. Geochemical evidence for enhanced productivity during S1 sapropel deposition in the eastern Mediterranean. PALEOCEANOGRAPHY. 15, pp. 200 - 209. American Geophysical Union, 2000.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 39** M. Ortega Huertas; F. Martínez Ruiz; I. Palomo. The K/T Boundary at Blake Nose (ODP Leg 171B): Linking the Spherule bed Composition to Chicxulub Crater. EOS, TRANSACTIONS AMERICAN GEOPHYSICAL UNION. 81 - 48, pp. 800. American Geophysical Union, 2000.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 40** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo. Positive Eu anomaly development during diagenesis of the K/T boundary ejecta layer in the Agost section (SE Spain): implications for trace-element remobilization. TERRA NOVA. 11, pp. 290 - 296. 1999.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 41** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo. The Cretaceous-Tertiary event: impact spherules and geochemical signatures from areas of SE Spain and Site 1049 (ODP Leg 171 B). OCEANIC IMPACTS. MECHANISMS AND ENVIRONMENTAL PERTURBATIONS. ESF IMPACT PROGRAMME. pp. 55 - 58. 1999.

Type of production: Scientific paper

Format: Journal

- 42** M. Ortega Huertas; I. Palomo; F. Martínez Ruiz; I. González Díez. Geological factors controlling clay mineral patterns across the Cretaceous-Tertiary boundary in Mediterranean and Atlantic sections. CLAY MINERALS. 33, pp. 483 - 500. GeoScienceWorld, 1998.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 43** F. Martínez Ruiz; M. Ortega Huertas; I. Palomo; P. Acquafredda. Quench textures in altered spherules from the Cretaceous-Tertiary boundary layer at Agost and Caravaca, SE Spain. SEDIMENTARY GEOLOGY. 113, pp. 137 - 147. Elsevier, 1997.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

- 44** M.M. Abad Ortega; P. Fenoll Hach-Alí; M. Ortega Huertas. Variación composicional y significado petrogenético de los granates asociados a pegmatitas de Sierra Albarrana (Córdoba). Bol. Sociedad Española de Mineralogía. 20, pp. 41 - 56. 1997.

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- 1** **Title of the work:** Compositional variability across the Cretaceous/Paleogene Boundary at the Agost Section (Spain): Ultra-High Resolution Analysis by LA-ICP-MS
Name of the conference: Goldschmidt Conference 2017
City of event: Paris, France
Date of event: 13/08/2017
End date: 18/08/2017
Organising entity: European Association of Geochemistry and Geochemical Society
C Sosa-Montes de Oca; GJ de Lange; Miguel Ortega Huertas; Francisca Martínez Ruiz; Francisco J Rodríguez Tovar.
- 2** **Title of the work:** Clay Mineral Assemblages as Proxies for reconstructing Paleoclimate, provenance and sediment transport pattern in the Alborán Sea Basin
Name of the conference: 16th International Clay Conference ICC 2017
Corresponding author: Yes
City of event: Granada, Andalusia, Spain
Date of event: 17/07/2017
End date: 21/07/2017
Organising entity: AIPEA: International Association for the Study of Clays
City organizing entity: Granada, Andalusia, Spain

Marta Rodrigo Gámiz; Francisca Martínez Ruiz; Daniel Aríztegui; Miguel Ortega Huertas. "AIPEA. 16ICC Conference".

3 Title of the work: Evidence of the 1,500 yr climate cycle in the western Mediterranean over the last 20kyr

Name of the conference: 12th International Conference on Paleoceanography

City of event: Utrecht, Hong Kong

Date of event: 29/08/2016

End date: 02/09/2016

Rodrigo Gámiz Marta; Martínez Ruiz Francisca; Rodríguez Tovar FJ; Pardo Igúzquiza E; Ortega Huertas Miguel.

4 Title of the work: Exploring biotic vs abiotic controls on syngenetic carbonate and clay mineral precipitation

Name of the conference: EGU, European Geosciences Union General Assembly 2016

Corresponding author: No

City of event: Viena, Austria

Date of event: 17/04/2016

End date: 22/04/2016

Organising entity: European Geosciences Union

GS Nascimento; JA McKenzie; F Martínez Ruiz; Miguel Ortega Huertas; RR Bontognali. "EGU Abstracts".

5 Title of the work: Marine barite production in the Mediterranean over the last 20 kyr: Reconstructing productivity and climate fluctuations

Name of the conference: Goldschmidt2015 Conference

Corresponding author: No

City of event: Praga, Czech Republic

Date of event: 16/08/2015

End date: 21/09/2015

Organising entity: European Association of Geochemistry and Geochemical Society

Type of entity: Associations and Groups

City organizing entity: Praga, Czech Republic

M Ortega Huertas; A Paytan; V Nieto Moreno; D Gallego Torres; FJ Jiménez Espejo; F Martínez Ruiz; M Rodrigo Gámiz. "Goldschmidt2015 Abstracts".

6 Title of the work: Contribution from natural causees and human activities to climate variability in the Westernmost Mediterranean over the last millennium

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: global and regional perspectives-North Meets South. ASLO2015

City of event: Granada, Andalusia, Spain

Date of event: 22/02/2015

End date: 27/02/2015

Vanesa Nieto Moreno; Francisca Martínez Ruiz; JS Sinninghe Damsté; ME Böttcher; A Mulch; David Gallego Torres; Santiago Giral; J García-Orellana; Pere Masqué; Miguel Ortega Huertas. "2015 Aquatic Sciences Meeting-ASLO2015".

7 Title of the work: The Mediterranean barium record: linking productivity fluctuations and climate variability over the last 20kyr

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: global and regional perspectives-North Meets South. ASLO2015

City of event: Granada, Andalusia, Spain

Date of event: 22/02/2015

End date: 27/02/2015

Type of entity: Associations and Groups

Organising entity: Association for the Sciences of Limnology and Oceanography (ASLO)

Francisca Martínez Ruiz; David Gallego Torres; Marta Rodrigo Gámiz; Vanesa Nieto Moreno; Francisco Jiménez Espejo; Adina Paytan; Miguel Ortega Huertas. "2015 Aquatic Sciences Meeting-ASLO2015".

- 8 Title of the work:** Westernmost mediterranean paleoclimate evolution over the last 30 kyr: a high-resolution geochemical record of the last deglaciation

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: global and regional perspectives-North Meets South. ASLO2015

City of event: Granada, Andalusia, Spain

Date of event: 22/02/2015

End date: 27/02/2015

Laura Morcillo Montalbá; Francisca Martínez Ruiz; Miguel Ortega Huertas. "2015 Aquatic Sciences Meeting-ASLO2015".

- 9 Title of the work:** Geochemical proxies for reconstructing climate variability in marginal basins: the Alborán Sea record

Name of the conference: European Geosciences Union EGU 2014

City of event: Viena, Austria

Date of event: 27/04/2014

End date: 02/05/2014

Organising entity: European Geosciences Union

City organizing entity: Viena, Austria

Francisca Martínez Ruiz; Miriam Kastner; David Gallego Torres; Marta Rodrigo Gámiz; Francisco Jiménez Espejo; Miguel Ortega Huertas. "Geophysical Research Abstracts, vol. 16, EGU2014-6501".

- 10 Title of the work:** Deep-water oxygenation during TOC-rich sediment deposition: reconstructing oceanographic conditions based on TOC-U-Mo variations

Name of the conference: 11th International Conference on Palaeoceanography-ICP11

City of event: Sitges-Barcelona, Catalonia, Spain

Date of event: 01/09/2013

End date: 06/09/2013

Organising entity: Universitat de Barcelona

Type of entity: University

City organizing entity: Barcelona, Catalonia, Spain

David Gallego Torres; Francisca Martínez Ruiz; GJ De Lange; Óscar Romero; ME Böttcher; F Guichard; G Lericolais; Miguel Ortega Huertas. "Abstracts ICP11-International Conference on Palaeoceanography".

- 11 Title of the work:** Late Holocene paleoceanographic changes and deep-seafloor dynamics evidenced by sediments records from the western Mediterranean

Name of the conference: 11th International Conference on Paleocyanography- ICP 11

City of event: Barcelona-Sitges, Catalonia, Spain

Date of event: 01/09/2013

End date: 06/09/2013

Organising entity: Universitat de Barcelona

Type of entity: University

City organizing entity: Sitges-Barcelona, Catalonia, Spain

Vanesa Nieto Moreno; Francisca Martínez Ruiz; David Gallego Torres; Jordi García Orellana; Pere Masqué; Miguel Ortega Huertas. "Abstracts ICP11".

- 12 Title of the work:** Elemental ratios as proxies for paleoclimate reconstruction in the western Mediterranean

Name of the conference: Goldschmidt Conference 2013

City of event: Firenze, Italy

Date of event: 25/08/2013

End date: 30/08/2013

Organising entity: Geochemical Society

Francisca Martínez Ruiz; Marta Rodrigo Gámiz; Vanesa Nieto Moreno; Francisco Jiménez Espejo; David Gallego Torres; Miguel Ortega Huertas. "Mineralogical Magazine, vol. 77, p. 1696".

- 13 Title of the work:** Paleoclimate and paleoceanographic conditions in the westernmost Mediterranean over the last two millennia: an integrated organic and inorganic approach

Name of the conference: Holocene Climate Change

City of event: London, United Kingdom

Date of event: 04/04/2013

End date: 06/04/2013

Organising entity: The Geological Society, London **Type of entity:** Associations and Groups

City organizing entity: London, United Kingdom

Vanesa Nieto Moreno; Francisca Martínez Ruiz; David Gallego Torres; Santiago Giralt; Jordi García Orellana; Pere Masqué; Miguel Ortega Huertas; JS Sinninghe Damsté. "Abstract Book Holocene Climate Change, p. 10".

- 14 Title of the work:** Study of degree of alteration of enamels using micro-ATRFTIR and SEM-EDS

Name of the conference: International Congress Science and Technology for the Conservation of Cultural Heritage

Type of event: Conference

Geographical area: Non EU International

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 02/10/2012

End date: 05/10/2012

Organising entity: Network Heritage

Type of entity: University Research Institute

Type of contribution: Book chapter

J. Romero Pastor; MA. Del Egido; JV. Navarro; MA. García; M. Ortega Huertas; MA. Del Egido; MA. Del Egido; MA. Del Egido; MA. Del Egido; JV. Navarro.

- 15 Title of the work:** Evolution of deep-water redox conditions in the NW African upwelling system during the last glacial and deglaciation: implications for the deep ocean circulation

Name of the conference: European Geosciences Union 2012

Type of event: Conference

Geographical area: Non EU International

City of event: Viena, Austria

Date of event: 22/04/2012

End date: 27/04/2012

Organising entity: European Geosciences Union (EGU)

Type of entity: Associations and Groups

Type of contribution: Book chapter

D. Gallego Torres; F. Martínez Ruiz; M. Ortega Huertas.

- 16 Title of the work:** Late Holocene climate variability recorded by marine sediments composition in the westernmost Mediterranean

Name of the conference: CIESM 2010

Type of event: Conference

Geographical area: Non EU International

City of event: Venice, Italy

Date of event: 2010

End date: 2010

Organising entity: The Mediterranean Science Commission

Type of entity: Associations and Groups

Type of contribution: Book chapter

V. Nieto Moreno; F. Martínez Ruiz; S. Giralt; F.J. Jiménez Espejo; D. Gallego Torres; T. Sakamoto; M. Rodrigo Gámiz; M. Böttcher; J. García Orellana; M. Ortega Huertas.

- 17** **Title of the work:** Water column redox conditions during sapropel formation: comparison between sedimentary record recent analogues
Name of the conference: CIESM
Type of event: Conference **Geographical area:** Non EU International
City of event: Venice, Italy
Date of event: 2010
End date: 2010
Organising entity: The Mediterranean Science Commission **Type of entity:** Associations and Groups
Type of contribution: Book chapter
1; D. Gallego Torres; G.J. De Lange; F. Martínez Ruiz; O. Romero; A. Paytan; M. Böttcher; F. Guichard; F.J. Jiménez Espejo; V. Nieto Moreno; M. Ortega Huertas.
- 18** **Title of the work:** Reconstructing paleoceanographic conditions in the westernmost Mediterranean during the last 4.000 yr: Tracking rapid climate variability
Name of the conference: European Geosciences Union (EGU)
Type of event: Conference **Geographical area:** European Union
City of event: Vienna, Austria
Date of event: 19/04/2009
End date: 24/04/2009
Organising entity: European Geosciences Union (EGU) **Type of entity:** Associations and Groups
Type of contribution: Book chapter
V. Nieto; F. Martínez Ruiz; F. Jiménez Espejo; M. Rodrigo Gámiz; D. Gallego Torres; T. Sakamoto; M. Böttcher; J. García Orellana; M. Rodrigo; T. Sakamoto; M. Rodrigo; M. Ortega Huertas.
- 19** **Title of the work:** Paleoceanographic and paleoclimate conditions in the western Mediterranean during the last 20 kyr: new insights from a TTR core transect in the Alborán Sea basin
Name of the conference: TTR-17 Post-cruise Meeting
Type of event: Workshop **Geographical area:** Non EU International
Date of event: 2009
End date: 2009
Organising entity: University of Granada
City organizing entity: Granada, Spain
Type of contribution: Book chapter
1; F.J. Jiménez Espejo; F. Martínez Ruiz; F. Rogerson; J.M. González Donoso; O. Romero; D. Linares; T. Sakamoto; D. Gallego Torres; M. Rodrigo Gámiz; V. Nieto Moreno; M. Ortega Huertas.
- 20** **Title of the work:** Temporal and spatial paleoproductivity patterns associated with Eastern Mediterranean sapropels: paleoceanographic significance
Name of the conference: 2008 American Geophysical Union Fall Meeting-AGU
Type of event: Conference **Geographical area:** Non EU International
City of event: United States of America
Date of event: 2008
End date: 2008
Organising entity: American Geophysical Union **Type of entity:** Associations and Groups
City organizing entity: San Francisco, United States of America
Type of contribution: Book chapter
D. Gallego Torres; F. Martínez Ruiz; P.A. Meyers; A. Paytan; F.J. Jiménez Espejo; M. Ortega Huertas.

- 21** **Title of the work:** Temporal and spatial paleoproductivity patterns associated with Eastern Mediterranean sapropels: paleoceanographic significance
Name of the conference: American Geophysical Union Fall Meeting
Type of event: Conference **Geographical area:** Non EU International
Date of event: 10/12/2007
End date: 14/12/2007
Organising entity: American Geophysical Union **Type of entity:** Associations and Groups
City organizing entity: San Francisco, United States of America
Type of contribution: Book chapter
D. Gallego Torres; F. Martínez Ruiz; PA. Meyers; A. Paytan; F.J. Jiménez Espejo; M. Ortega Huertas. 88 - 50, pp. 43B - 1248.
- 22** **Title of the work:** Calibration of geochemical proxies for climate variability reconstruction and recent sedimentary record from the westernmost Mediterranean
Name of the conference: Geologische Vereinigung, 97th Annual Meeting and International Conference
Type of event: Conference **Geographical area:** Non EU International
Date of event: 01/10/2007
End date: 05/10/2007
Organising entity: University of Bremen
City organizing entity: Bremen, Germany
Type of contribution: Book chapter
V. Nieto Moreno; F. Martínez Ruiz; D. Gallego Torres; F.J. Jiménez Espejo; O. Romero; M. Ortega Huertas. 1 - 2, pp. 174 - 175.
- 23** **Title of the work:** Productivity vs. Anoxia control of organic matter deposition in marine sediments: a comparative approach of Corg-rich paleoenvironments
Name of the conference: Geologische Vereinigung, 97th Annual Meeting and International Conference
Type of event: Conference **Geographical area:** Non EU International
Date of event: 01/10/2007
End date: 05/10/2007
Organising entity: University of Bremen **Type of entity:** University
City organizing entity: Bremen, Germany
Type of contribution: Book chapter
D. Gallego Torres; F. Martínez Ruiz; A. Paytan; O. Romero; ME. Böttcher; F. Guichard; F.J. Jiménez Espejo; V. Nieto Moreno; M. Ortega Huertas. 1 - 2, pp. 91.
- 24** **Title of the work:** Evolution of conditions for sapropel deposition in the Eastern Mediterranean from Pliocene to Holocene: Multiproxy study on paleoproductivity and paleoxygenation
Name of the conference: European Geosciences Union.
Type of event: Conference **Geographical area:** European Union
Date of event: 15/04/2007
End date: 20/04/2007
Organising entity: European Geosciences Union. **Type of entity:** Associations and Groups
City organizing entity: Viena, Austria
Type of contribution: Book chapter
D. Gallego Torres; F. Martínez Ruiz; A. Paytan; O. Romero; F.J. Jiménez Espejo; M. Ortega Huertas. 9, pp. 03691.
- 25** **Title of the work:** Variabilidad climática y su impacto en la Península Ibérica desde el último máximo glacial: análisis del registro sedimentario en la cuenca del mar de Alborán
Name of the conference: Primer Congreso Nacional sobre Cambio Global



Type of event: Conference
City of event: Madrid, Spain
Date of event: 2007

Geographical area: National

Type of contribution: Book chapter

F. Martínez Ruiz; F.J. Jiménez Espejo; D. Gallego Torres; O. Romero; M. Ortega Huertas; JM. González Donoso; D. Linares; V. Nieto Moreno.

- 26 Title of the work:** Evidences for paleoproductivity and paleoceanographic conditions in Eastern Mediterranean based on C and N isotopic composition

Name of the conference: European Geosciences Union

Type of event: Conference

Geographical area: European Union

City of event: Viena, Austria

Date of event: 02/04/2006

End date: 07/04/2006

Organising entity: European Geosciences Union

Type of entity: Associations and Groups

D. Gallego Torres; F. Martínez Ruiz; O. Romero; F.J. Jiménez Espejo; A. Paytan; M. Ortega Huertas; M. Ortega Huertas. 8 - 09427,

- 27 Title of the work:** Uso de biominerales (cascarones de huevo, huesos, conchas de moluscos) como indicadores de la contaminación medioambiental

Name of the conference: XXIV Reunión de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 08/09/2004

End date: 11/09/2004

Organising entity: Sociedad Española de Mineralogía

Type of entity: University

City organizing entity: Cuenca, Spain

Type of contribution: Book chapter

A. Rodríguez Navarro; ChS. Romanek; P. Álvarez Lloret; M. Ortega Huertas.

- 28 Title of the work:** Indicadores de contaminación extraterrestre en secciones distales del tránsito Cretácico-Terciario

Name of the conference: VI Congreso Geológico de España

Type of event: Conference

Geographical area: National

Date of event: 12/07/2004

End date: 15/07/2004

Organising entity: Sociedad Geológica de España

Type of entity: Associations and Groups

City organizing entity: Zaragoza, Spain

Type of contribution: Book chapter

F. Martínez Ruiz; I. Palomo Delgado; M. Ortega Huertas.

- 29 Title of the work:** The K/T boundary at Blake Nose (ODP Leg 171B)

Name of the conference: Bioevents: their stratigraphical records, patterns and causes

Type of event: Conference

Geographical area: National

Date of event: 05/06/2003

End date: 08/06/2003

Organising entity: City Hall of Caravaca

Type of entity: Public

City organizing entity: Caravaca, Spain

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.

- 30** **Title of the work:** Cretaceous-Tertiary boundary spherules as record of the Chicxulub impact: evidence for primary signatures and diagenetic evolution of ejecta materials
Name of the conference: Congreso Ibérico de Meteoritos y Geología Planetaria
Type of event: Conference **Geographical area:** National
Date of event: 24/10/2002
End date: 26/10/2002
Organising entity: Museo de las Ciencias de Castilla-La Mancha **Type of entity:** Museum
City organizing entity: Cuenca, Spain
Type of contribution: Book chapter
F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.
- 31** **Title of the work:** El evento del límite Cretácico-Terciario: la capa de arcilla como base de la hipótesis extraterrestre
Name of the conference: XVI Reunión Científica de la Sociedad Española de Arcillas
Type of event: Conference **Geographical area:** National
Date of event: 24/10/2001
End date: 26/10/2001
Organising entity: Sociedad Española de Arcillas **Type of entity:** Associations and Groups
City organizing entity: Baeza (Jaén), Spain
Type of contribution: Book chapter
F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.
- 32** **Title of the work:** Field-Trip Guide to the Agost and Caravaca sections (Betic Cordillera, Spain)
Name of the conference: ESF Impact-6th Workshop: Impact Markers in the Stratigraphic Record
Type of event: Conference **Geographical area:** European Union
City of event: Granada,
Date of event: 19/05/2001
End date: 25/05/2001
Organising entity: CSIC, University of Granada and European Science Foundation **Type of entity:** University Centres and Structures and Associated Bodies
City organizing entity: Granada, Spain
E. Molina; L. Alegret; I. Arenillas; J. Arz; C. Gonzalvo; F. Martínez Ruiz; M. Ortega Huertas; I. Palomo; F.J. Rodríguez Tovar. pp. 17 - 22. ISBN 84-607-2362-3
- 33** **Title of the work:** K/T boundary spherules from SE Spain and Blake Nose sections: diagenetical alteration and source material.
Name of the conference: 6th ESF-Impact Workshop: Impact Markers in the Stratigraphic Record
Type of event: Conference **Geographical area:** European Union
City of event: Granada,
Date of event: 19/05/2001
End date: 25/05/2001
Organising entity: CSIC, University of Granada and European Science Foundation **Type of entity:** University Centres and Structures and Associated Bodies
City organizing entity: Granada, Spain
F. Martínez Ruiz; M. Ortega Huertas; I. Palomo. pp. 73 - 75. ISBN 84-607-2361-5
- 34** **Title of the work:** The K/T boundary at Blake Nose (ODP Leg 171B): Linking the Spherule bed Composition to Chicxulub Crater
Name of the conference: 2000 Fall Meeting, American Geophysical Union
Type of event: Conference **Geographical area:** Non EU International
Date of event: 15/12/2000



End date: 19/12/2000

Organising entity: American Geophysical Union **Type of entity:** Associations and Groups

City organizing entity: San Francisco, United States of America

Type of contribution: Book chapter

M. Ortega Huertas.

- 35 Title of the work:** The Cretaceous-Tertiary boundary impact ejecta at Blake Nose (ODP Leg 171B) as record of the Chicxulub impact

Name of the conference: Catastrophic Events & Mass Extinctions: Impacts and Beyond

Type of event: Conference

Geographical area: Non EU International

Date of event: 09/07/2000

End date: 12/07/2000

Organising entity: Lunar and Planetary Institute

Type of entity: University Research Institute

City organizing entity: Viena, Austria

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado; J. Smit.

- 36 Title of the work:** Primeros datos sobre la mineralogía de arcillas y la geoquímica del tránsito Cretácico-Terciario en Blake Nose, Atlántico NW (Ocean Drilling Program, Leg 171B)

Name of the conference: XV Reunión Científica de la Sociedad Española de Arcillas.

Type of event: Conference

Geographical area: National

Date of event: 27/09/1999

End date: 29/09/1999

Organising entity: Sociedad Española de Arcillas

Type of entity: Associations and Groups

City organizing entity: Ronda (Málaga), Spain

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado. En: Integración Ciencia-Tecnología de las arcillas.

- 37 Title of the work:** The Cretaceous-Tertiary event: impact spherules and geochemical signatures from Areas of SE Spain and Site 1049 (ODP Leg 171 b)

Name of the conference: ESF Impact Programme Workshop. Oceanic impacts: Mechanisms and environmental perturbations

Type of event: Conference

Geographical area: Non EU International

Date of event: 15/04/1999

End date: 17/04/1999

Organising entity: Alfred Wegener Institute for Polar and Marine Research (AWI)

Type of entity: University Research Institute

City organizing entity: Bremerhaven, Germany

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.

- 38 Title of the work:** Spherules from Cretaceous-Tertiary boundary sediments as a record of the impact event

Name of the conference: European Union of Geosciences

Type of event: Conference

Geographical area: European Union

Date of event: 28/03/1999

End date: 01/04/1999

Organising entity: European Geosciences Union

Type of entity: Associations and Groups

City organizing entity: Estrasburgo, France

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.



- 39** **Title of the work:** The K/T boundary event: geochemical and mineralogical signatures from ODP Leg171B site 1049, NW Atlantic
Name of the conference: 6th International Conference on Paleoceanography
Type of event: Conference **Geographical area:** Non EU International
Date of event: 23/08/1998
End date: 28/08/1998
Organising entity: Portuguese Institute of Geology and Minerals.
City organizing entity: Lisbon, Portugal
Type of contribution: Book chapter
F. Martínez Ruiz; M. Ortega Huertas; ODP Leg171B Shipboard Scientific Party.
- 40** **Title of the work:** Changes vs. similarities in the clay-mineral composition across the Cretaceous-Tertiary boundary
Name of the conference: Spanish-Italian Meeting on Clay Minerals
Type of event: Conference **Geographical area:** European Union
Date of event: 19/09/1996
End date: 21/09/1996
Organising entity: University of Granada **Type of entity:** University
City organizing entity: Granada, Spain
Type of contribution: Book chapter
F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.
- 41** **Title of the work:** Clay mineralogy and geochemistry of lower Cretaceous sandstones from Aveiro sedimentary basin (Portugal) used for paleogeographic reconstruction.
Name of the conference: 8th Meeting of the European Clay Groups
Type of event: Conference **Geographical area:** European Union
Date of event: 19/08/1995
End date: 26/08/1995
Organising entity: European Clay Groups **Type of entity:** Associations and Groups
F. Rocha; M. Ortega Huertas; C. Gomes. pp. 403 - 404.
- 42** **Title of the work:** Geochemical characterization of anoxic clay sedimentation in the Umbria-Marche Basin (Apennines, Italy).
Name of the conference: 8th Meeting of the European Clay Groups
Type of event: Conference **Geographical area:** European Union
Date of event: 1995
End date: 1995
Organising entity: European Clay Groups **Type of entity:** Associations and Groups
M. Ortega Huertas; G. Parisi; I. Palomo; M. Nocchi; F. Martínez Ruíz; P. Mónaco. pp. 407 - 408.
- 43** **Title of the work:** Significance of the iron-rich microspherules for the K/T boundary dispute
Name of the conference: Int. Workshop ESF Sci. Network: "The Role of Impacts in the Evolution of the Atmosphere and Biosphere with Regard to Short- and Long Terms Changes
Type of event: Conference **Geographical area:** European Union
Date of event: 1995
End date: 1995
Organising entity: European Science Foundation **Type of entity:** Foundation
F. Martínez Ruíz; Z. Sawlowicz; M. Ortega Huertas; I. Palomo. pp. 117 - 119.

- 44** **Title of the work:** Microkrystites from Agost and Caravaca sections (SE Spain) as evidence of impact at the Cretaceous-Tertiary boundary
Name of the conference: 1994 Fall Meeting of American Geophysical Union
Type of event: Conference **Geographical area:** Non EU International
Date of event: 05/12/1994
End date: 09/12/1994
Organising entity: American Geophysical Union **Type of entity:** Associations and Groups
City organizing entity: San Francisco, United States of America
Type of contribution: Book chapter
M. Ortega Huertas; F. Martínez Ruiz; I. Palomo Delgado; P. Acquafredda.
- 45** **Title of the work:** The geochemistry and mineralogy of clay sedimentation as a contribution to Basin Analysis
Name of the conference: 77 Congresso Nazionale della Società Geologica Italiana, Sess. Scientifica della Società Italiana di Mineralogia e Petrologia
Type of event: Conference **Geographical area:** European Union
City of event: Bari, Italy
Date of event: 23/09/1994
End date: 01/10/1994
Organising entity: Società Geologica Italiana **Type of entity:** Associations and Groups
City organizing entity: Bari, Italy
Type of contribution: Book chapter
M. Ortega Huertas.
- 46** **Title of the work:** $^{87}\text{Sr}/^{86}\text{Sr}$ data of Celestite Ore Deposits in Spain
Name of the conference: 16th General Meeting, International Mineralogical Association
Type of event: Conference **Geographical area:** European Union
City of event: Pisa, Italy
Date of event: 03/09/1994
End date: 08/09/1994
Organising entity: International Mineralogical Association **Type of entity:** Associations and Groups
M. Ortega Huertas; M. Barbieri; M. Rodríguez Gallego; R. Arana; C. Trudu.
- 47** **Title of the work:** Geochemical characteristics of Toarcian sedimentation in Alpine Geological Domains
Name of the conference: VM Goldschmidt Conference. An International Conference for the Advancement of Geochemistry
Type of event: Conference **Geographical area:** Non EU International
Date of event: 29/08/1994
End date: 02/09/1994
Organising entity: Geochemical Society **Type of entity:** Associations and Groups
City organizing entity: Edinburgh, United Kingdom
Type of contribution: Book chapter
M. Ortega Huertas; I. Palomo Delgado; P. Monaco; F. Martínez Ruiz; M. Nocchi; G. Parisi.
- 48** **Title of the work:** REE behaviour across the KT boundary
Name of the conference: VM Goldschmidt Conference. An International Conference for the Advancement of Geochemistry
Type of event: Conference **Geographical area:** Non EU International
Date of event: 29/08/1994
End date: 02/09/1994

Organising entity: Geochemical Society
City organizing entity: Edinburgh, United Kingdom
Type of contribution: Book chapter
M. Ortega Huertas; F. Martínez Ruiz; M. Oddone; I. Palomo Delgado.

Type of entity: Associations and Groups

- 49** **Title of the work:** The Cretaceous-Tertiary boundary in the Betic Cordilleras and Basque-Cantabrian Basin. A comparative study of the platinum-group anomalies
Name of the conference: VM Goldschmidt Conference. An International Conference for the Advancement of Geochemistry
Type of event: Conference
Date of event: 29/08/1994
End date: 02/09/1994
Geographical area: Non EU International
Organising entity: Geochemical Society
City organizing entity: Edinburgh, United Kingdom
Type of contribution: Book chapter
M. Ortega Huertas; F. Martínez Ruiz; I. Palomo Delgado.

Type of entity: Associations and Groups

- 50** **Title of the work:** Contribución de los minerales de la arcilla al conocimiento del límite Cretácico-Terciario
Name of the conference: XII Reunión Científica de la Sociedad Española de Arcillas
Type of event: Conference
Date of event: 1994
End date: 1994
Geographical area: National
Organising entity: Sociedad Española de Arcillas
Type of contribution: Book chapter
M. Ortega Huertas.

Type of entity: Associations and Groups

- 51** **Title of the work:** Evolution minéralogique et géochimique comparée de la sédimentation argileuse au passage Cretacé-Tertiaire dans le Sud et le Nord de la Péninsule Ibérique
Name of the conference: 4ème Congrès Français de Sédimentologie
Type of event: Conference
Date of event: 17/11/1993
End date: 19/11/1993
Geographical area: National
Organising entity: Société Française de Sédimentologie
City organizing entity: Lille, France
Type of contribution: Book chapter
M. Ortega Huertas; I. Palomo Delgado; F. Martínez Ruiz; H. Chamley.

Type of entity: Associations and Groups

- 52** **Title of the work:** REE contents of feldspar, mica, tourmaline and beryl from granitic pegmatites of the Sierra Albarrana (Córdoba, SW Spain)
Name of the conference: Second Biennial Meeting of the Society for Geology Applied to Mineral Deposits.
Type of event: Conference
Date of event: 09/09/1993
End date: 11/09/1993
Geographical area: Non EU International
Organising entity: University of Granada
City organizing entity: Granada, Spain
Type of contribution: Book chapter
M. Ortega Huertas; MM. Abad Ortega; P. Fenoll Hach-Alí.

Type of entity: University



- 53** **Title of the work:** Mineralogía y geoquímica de los granates asociados a las pegmatitas de Sierra Albarrana (Córdoba)
Name of the conference: XIII Reunión de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 03/06/1993
End date: 05/06/1993
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Castellón, Spain
Type of contribution: Book chapter
MM. Abad Ortega; M. Ortega Huertas; P. Fenoll Hach-Alí.
- 54** **Title of the work:** PGE anomalies and strontium isotopes at the K/T boundary in the Basque Cantabrian basin (Spain and France)
Name of the conference: European Union of Geosciences
Type of event: Conference **Geographical area:** European Union
Date of event: 04/04/1993
End date: 08/04/1993
Organising entity: European Union of Geosciences **Type of entity:** Associations and Groups
City organizing entity: Estrasburgo, France
Type of contribution: Book chapter
M. Ortega Huertas; F. Martínez Ruiz; I. Palomo Delgado; M. Barbieri.
- 55** **Title of the work:** Preliminary geochemical studies of Toarcian black-shale sediments in the Umbria-Marche basin, Central Italy
Name of the conference: European Union of Geosciences
Type of event: Conference **Geographical area:** European Union
Date of event: 04/04/1993
End date: 08/04/1993
Organising entity: European Union of Geosciences **Type of entity:** Associations and Groups
City organizing entity: Estrasburgo, France
Type of contribution: Book chapter
M. Ortega Huertas; I. Palomo Delgado; G. Parisi; M. Nocchi; P. Monaco.
- 56** **Title of the work:** Geochemical anomalies at Cretaceous/Tertiary boundary in the Betic Cordilleras, SE Spain
Name of the conference: Pery-Tethyan Platforms. An IFP/Eurotethys Research Conference
Type of event: Conference **Geographical area:** European Union
Date of event: 23/03/1993
End date: 25/03/1993
City organizing entity: Arles, France
Type of contribution: Book chapter
M. Ortega Huertas; F. Martínez Ruiz; M. Barbieri; I. Palomo Delgado.
- 57** **Title of the work:** Geochemical characterisation of the Paleocene/Eocene boundary at Caravaca (SE Spain)
Name of the conference: IGCP Project 308. Paleocene/Eocene Boundary Events.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 09/11/1992
End date: 13/11/1992
Organising entity: IUGS-UNESCO **Type of entity:** Associations and Groups



City organizing entity: Zaragoza, Spain

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.

58 Title of the work: Preliminary study of mineralogy and geochemistry across the Paleocene/Eocene boundary at Zumaya section (Northern Spain)

Name of the conference: IGCP Project 308. Paleocene/Eocene Boundary Events.

Type of event: Conference

Geographical area: Non EU International

Date of event: 09/11/1992

End date: 13/11/1992

Organising entity: IUGS-UNESCO

Type of entity: Associations and Groups

City organizing entity: Zaragoza, Spain

Type of contribution: Book chapter

M. Ortega Huertas; F. Martínez Ruiz; I. Palomo Delgado.

59 Title of the work: Clay mineralogy across the Cretaceous-Tertiary boundary in the Betic Cordilleras (Spain).

Name of the conference: Clay Mediterranean Meeting

Type of event: Conference

Geographical area: European Union

City of event: Lipari, Italy

Date of event: 27/09/1992

End date: 30/09/1992

Organising entity: Dipartimento di Scienze Mineralogiche dell'Università

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo. pp. 100 - 101.

60 Title of the work: Microanalytical data on K/T boundary potassium feldspar spherules at Caravaca (Spain)

Name of the conference: 10th European Congress on Electron Microscopy.

Type of event: Conference

Geographical area: European Union

Date of event: 07/09/1992

End date: 11/09/1992

Organising entity: EUROPEAN MICROSCOPY SOCIETY (EMS)

Type of entity: Associations and Groups

Type of contribution: Book chapter

M. Ortega Huertas; F. Martínez Ruiz; P. Acquafredda; I. Palomo Delgado.

61 Title of the work: TEM-AEM and SEM characteristics of the clay minerals of Neogene sediments at the eastern sector of the Guadalquivir Basin (S Spain)

Name of the conference: 10th European Congress on Electron Microscopy

Type of event: Conference

Geographical area: European Union

Date of event: 07/09/1992

End date: 11/09/1992

Organising entity: EUROPEAN MICROSCOPY SOCIETY (EMS)

Type of entity: Associations and Groups

City organizing entity: Granada, Spain

Type of contribution: Book chapter

A. López Galindo; A. García Guerrero; M. Ortega Huertas.

62 Title of the work: The contribution of electron microscopy for understanding of the genesis of spherules in the sediment layer of the Cretaceous-Tertiary boundary

Name of the conference: 10th European Congress on Electron Microscopy

Type of event: Conference

Geographical area: European Union

Date of event: 07/09/1992

End date: 11/09/1992

Organising entity: EUROPEAN MICROSCOPY SOCIETY (EMS)

Type of entity: Associations and Groups

City organizing entity: Granada, Spain

Type of contribution: Book chapter

M. Ortega Huertas; F. Martínez Ruiz; P. Acquafredda; I. Palomo Delgado.

63 Title of the work: Caracterización geoquímica y mineralógica del tránsito Cretácico-Terciario en la Cuenca Vasco-Cantábrica y en las Cordilleras Béticas

Name of the conference: III Congreso Geológico de España y VIII Congreso Latinoamericano de Geología. XII Reunión de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 21/06/1992

End date: 26/06/1992

Organising entity: Sociedad Española de Mineralogía

Type of entity: Associations and Groups

City organizing entity: Salamanca, Spain

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado. 3, pp. 258 - 262.

64 Title of the work: Variaciones composicionales en las turmalinas de las pegmatitas de Sierra Albarrana (Córdoba)

Name of the conference: III Congreso Geológico de España y VIII Congreso Latinoamericano de Geología. XII Reunión de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 21/06/1992

End date: 26/06/1992

Organising entity: Sociedad Española de Mineralogía

Type of entity: Associations and Groups

City organizing entity: Salamanca, Spain

Type of contribution: Book chapter

M. Ortega Huertas; MM. Abad Ortega; P. Fenoll Hach-Alí. 3, pp. 19 - 22.

65 Title of the work: New data on the spherules from the Cretaceous-Tertiary boundary layer at Caravaca (SE Spain)

Name of the conference: XII Sesión Científica de la Sociedad Geológica de España

Type of event: Conference

Geographical area: National

Date of event: 21/02/1992

Organising entity: Sociedad Geológica de España

Type of entity: Associations and Groups

City organizing entity: Alicante, Spain

Type of contribution: Book chapter

M. Ortega Huertas; P. Acquafredda; I. Palomo Delgado; F. Martínez Ruiz.

66 Title of the work: Clay minerals sedimentation as tool in the Basin Analysis

Name of the conference: Dip.to. Scienze della Terra

Type of event: Conference

Geographical area: European Union

Date of event: 1992

End date: 1992

Organising entity: Universidad de Perugia

Type of entity: University

City organizing entity: Perugia, Italy

M. Ortega Huertas.

- 67** **Title of the work:** Geochemical anomalies in sediments of the Cretaceous Tertiary boundary. A comparative study of several stratigraphical sequences
Name of the conference: IV Congreso de Geoquímica de España
Type of event: Conference **Geographical area:** National
Date of event: 08/09/1991
End date: 13/09/1991
Organising entity: Sociedad Geológica de España **Type of entity:** Associations and Groups
City organizing entity: Soria, Spain
Type of contribution: Book chapter
F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.
- 68** **Title of the work:** Illite and smectite AEM data. Evidence of inherited and diagenetic processes.
Name of the conference: 7th Euroclay Conference
Type of event: Conference **Geographical area:** European Union
City of event: Dresden, Germany
Date of event: 26/08/1991
End date: 30/08/1991
M. Ortega Huertas; I. Palomo; F. Martínez. 3, pp. 815 - 820.
- 69** **Title of the work:** Iridium, strontium isotopes and trace element patterns in the Cretaceous Tertiary boundary at Monte Urko (País Vasco, Spain)
Name of the conference: XI Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 26/06/1991
End date: 28/06/1991
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sant Feliu de Guixols (Gerona), Spain
Type of contribution: Book chapter
M. Ortega Huertas; M. Oddone; F. Martínez Ruiz; M. Barbieri; M. Moresi; I. Palomo Delgado.
- 70** **Title of the work:** Los feldespatos de las pegmatitas de Sierra Albarrana: cristalquímica, geoquímica y petrogénesis
Name of the conference: XI Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 26/06/1991
End date: 28/06/1991
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sant Feliu de Guixols (Gerona), Spain
Type of contribution: Book chapter
MM. Abad Ortega; P. Fenoll Hach-Alí; M. Ortega Huertas.
- 71** **Title of the work:** Distribution of noble metals across the K/T boundary at Agost, SE Spain
Name of the conference: European Union of Geosciences VI
Type of event: Conference **Geographical area:** European Union
Date of event: 24/03/1991
End date: 28/03/1991
Organising entity: European Union of Geosciences **Type of entity:** Associations and Groups
City organizing entity: Estrasburgo, France
Type of contribution: Book chapter



F. Martínez Ruiz; M. Ortega Huertas.

- 72** **Title of the work:** Presencia de berthierina en pegmatitas metamórficas de Sierra Albarrana, Córdoba
Name of the conference: XI Reunión sobre la Geología del Oeste Peninsular
Type of event: Conference **Geographical area:** National
Date of event: 11/03/1991
End date: 12/03/1991
Organising entity: Grupo Español de Ossa Morena **Type of entity:** Associations and Groups
City organizing entity: Huelva, Spain
Type of contribution: Book chapter
MM. Abad Ortega; P. Fenoll Hach-Alí; M. Ortega Huertas.
- 73** **Title of the work:** Geochemical anomalies in sediments of the Cretaceous-Tertiary boundary. A comparative study of several stratigraphical sequences.
Name of the conference: IV Congreso de Geoquímica de España
Type of event: Conference **Geographical area:** National
Date of event: 1991
End date: 1991
Organising entity: Sociedad Geológica de España **Type of entity:** Associations and Groups
F. Martínez; M. Ortega Huertas; I. Palomo; M. Moresi. I, pp. 211 - 222.
- 74** **Title of the work:** I depositi argillosi del Giurassico Tetideo: mineralogia, geochimica e significato paleoambientale-paleodeposizionale
Name of the conference: Meeting on Mediterranean Clay Sedimentation
Type of event: Conference **Geographical area:** European Union
Date of event: 1991
End date: 1991
Organising entity: Universidad de Perugia **Type of entity:** University
City organizing entity: Perugia, Italy
Type of contribution: Book chapter
M. Ortega Huertas; P. Monaco; M. Nocchi; G. Parisi; I. Palomo.
- 75** **Title of the work:** Mineralogía del tránsito Mioceno Plioceno en el sector NW de la Cuenca de Vera (SE España). Implicaciones paleoambientales
Name of the conference: X Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 04/07/1990
End date: 06/07/1990
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Oviedo, Spain
Type of contribution: Book chapter
A. Sánchez Bellón; E. Sebastián Pardo; G. Barragán; M. Ortega Huertas.
- 76** **Title of the work:** Mineralogía y geoquímica del tránsito Cretácico Terciario en la secuencia de Agost (provincia de Alicante, España)
Name of the conference: X Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 04/07/1990
End date: 06/07/1990
Type of entity: Associations and Groups

Organising entity: Sociedad Española de Mineralogía

City organizing entity: Oviedo, Spain

Type of contribution: Book chapter

F. Martínez Ruiz; M. Ortega Huertas; I. Palomo Delgado.

77 Title of the work: Pegmatite deposits in Sierra Albarrana and other metamorphic areas in the North of the Province of Córdoba (South Spain)

Name of the conference: Congresso Annuale della Società Italiana di Mineralogia e Petrologia

Type of event: Conference

Geographical area: National

Date of event: 11/12/1989

End date: 13/12/1989

Organising entity: Società Italiana di Mineralogia e Petrologia (SIMP) **Type of entity:** Associations and Groups

City organizing entity: Padova, Italy

Type of contribution: Book chapter

P. Fenoll Hach-Alí; M. Ortega Huertas; A. Garrote Ruiz.

78 Title of the work: The geology and economic importance of the strontium deposits in Spain

Name of the conference: Congresso Annuale della Società Italiana di Mineralogia e Petrologia

Type of event: Conference

Geographical area: National

Date of event: 11/12/1989

End date: 13/12/1989

Organising entity: Società Italiana di Mineralogia e Petrologia **Type of entity:** Associations and Groups

City organizing entity: Padova, Italy

Type of contribution: Book chapter

M. Ortega Huertas.

79 Title of the work: El registro sedimentario Jurásico superior Cretáceo de los márgenes Sur y Oeste de Iberia: comparaciones en los contextos evolutivos

Name of the conference: XII Congreso Español de Sedimentología

Type of event: Conference

Geographical area: National

Date of event: 18/09/1989

End date: 20/09/1989

City organizing entity: Bilbao, Spain

Type of contribution: Book chapter

MC. Comas Minondo; A. López Galindo; M. Company; M. Ortega Huertas; F. Olóriz; I. Palomo Delgado; AC. López Garrido; J. Tavera Benítez. pp. 199 - 202.

80 Title of the work: Clay minerals in the Eastern Sector of the Guadalquivir Basin (Spain)

Name of the conference: 9th International Clay Conference.

Type of event: Conference

Geographical area: Non EU International

Date of event: 28/08/1989

End date: 02/09/1989

Organising entity: Université Louis Pasteur de Strasbourg

City organizing entity: Strasbourg, France

Type of contribution: Book chapter

M. Ortega Huertas; A. López Galindo; A. García Guerrero.



- 81** **Title of the work:** Diagenesis in the Cretaceous Tertiary pelitic rocks in the Central Sector of the Basque Cantabrian Basin (Iberian Peninsula)
Name of the conference: 9th International Clay Conference
Type of event: Conference **Geographical area:** Non EU International
Date of event: 28/08/1989
End date: 02/09/1989
Organising entity: Université Louis Pasteur de Strasbourg **Type of entity:** University
City organizing entity: Strasbourg, France
Type of contribution: Book chapter
 J. Aróstegui; M. Ortega Huertas; MC. Zuluaga; F. Velasco; F. Nieto García.
- 82** **Title of the work:** Geochemical and mineralogical data of the lower Jurassic sediments of the Betic Cordillera, SE Spain
Name of the conference: 9th International Clay Conference.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 28/08/1989
End date: 02/09/1989
Organising entity: Université Louis Pasteur de Strasbourg **Type of entity:** University
City organizing entity: Strasbourg, France
Type of contribution: Book chapter
 I. Palomo Delgado; M. Ortega Huertas; M. Oddone; M. Moresi.
- 83** **Title of the work:** The applications of HRTEM and AEM to the study of clay minerals and the diagenesis metamorphism transitional field
Name of the conference: Reuniao Luso Espanhola de Argilas.
Type of event: Conference **Geographical area:** European Union
Date of event: 29/03/1989
End date: 31/03/1989
Organising entity: Spanish Clay Society **Type of entity:** Associations and Groups
City organizing entity: Aveiro, Portugal
Type of contribution: Book chapter
 A. López Galindo; M. Ortega Huertas; F. Nieto García.
- 84** **Title of the work:** Influencia del paleokarst en la mineralogía de arcillas del Lías de Algarinejo (Subbético Medio)
Name of the conference: 7ª Sesión Científica de la Sociedad Geológica de España
Type of event: Conference **Geographical area:** National
Date of event: 24/02/1989
End date: 24/02/1989
Organising entity: Sociedad Geológica de España **Type of entity:** Associations and Groups
City organizing entity: Salamanca, Spain
Type of contribution: Book chapter
 JA. Vera Torres; M. Ortega Huertas; I. Palomo Delgado.
- 85** **Title of the work:** Geología e importancia económica de los yacimientos de celestina de la Depresión de Granada
Name of the conference: II Congreso Geológico de España
Type of event: Conference **Geographical area:** National
Date of event: 27/06/1988
End date: 01/07/1988



Organising entity: University of Granada
City organizing entity: Granada, Spain
Type of contribution: Book chapter
 M. Ortega Huertas; C. Feixas. pp. 1 - 13.

Type of entity: University

- 86** **Title of the work:** The genesis and evolution of strontium deposits in the Granada Basin (Betic Cordillera, SE Spain) and their economic significance
Name of the conference: Dip.to. Scienze della Terra
Type of event: Conference **Geographical area:** European Union
Date of event: 1988
End date: 1988
Organising entity: Univ. of Cagliari & Bari
City organizing entity: Cagliari, Italy
 M. Ortega Huertas.

- 87** **Title of the work:** The importance of a mineralogical study of the clays belonging to the Southern Iberian Palaeomargin to an understanding of the geological evolution of the Subbetic Zone (Spain)
Name of the conference: Dip.to. Scienze della Terra
Type of event: Conference **Geographical area:** European Union
Date of event: 1988
End date: 1988
Organising entity: University of Bari **Type of entity:** University
City organizing entity: Bari, Italy
 M. Ortega Huertas.

- 88** **Title of the work:** Clay minerals and the evolution of the Subbetic Zone (Betic Cordillera, SE Spain). Jurassic pelagic sedimentation and Cretaceous sediments deposited in an extensive palaeomargin environment
Name of the conference: Introductory Lecture, 6th Meeting of European Clay Groups
Type of event: Conference **Geographical area:** European Union
Date of event: 07/09/1987
End date: 10/09/1987
Organising entity: European Clay Groups **Type of entity:** Associations and Groups
City organizing entity: Sevilla, Spain
Type of contribution: Book chapter
 M. Ortega Huertas.

- 89** **Title of the work:** Mineralogical characteristics of olive-growing soils in Jaén (Spain).
Name of the conference: 6th Meeting of the European Clay Groups
Type of event: Conference **Geographical area:** European Union
Date of event: 07/09/1987
End date: 10/09/1987
Organising entity: European Clay Groups **Type of entity:** Associations and Groups
 A. Maraños; M. Ortega Huertas; M. Simón. pp. 365 - 367.

- 90** **Title of the work:** Pelagic jurassic sedimentation in the Betic Cordillera. An illustration of the role of geochemistry and the importance of clay minerals in the analysis of basin development.
Name of the conference: 6th Meeting of European Clay Groups
Type of event: Conference **Geographical area:** European Union
Date of event: 07/09/1987
End date: 10/09/1987

**Organising entity:** European Clay Groups**Type of entity:** Associations and Groups

I. Palomo; M. Ortega Huertas; J. Rodríguez Gordillo; P. Rivas. pp. 418 - 421.

- 91 Title of the work:** Some crystalchemical and petrographic criteria for the determination of the source rocks and sedimentary processes. The Neogene sediments of the Betic Cordillera (SE Spain).

Name of the conference: 6th Meeting of the European Clay Groups**Type of event:** Conference**Geographical area:** European Union**Date of event:** 07/09/1987**End date:** 10/09/1987**Organising entity:** European Clay Groups**Type of entity:** Associations and Groups

F. Nieto; M. Ortega Huertas; N. Velilla. pp. 408 - 411.

- 92 Title of the work:** The diagenesis in the anticline of Bilbao, Basco-Cantabrian Basin (Spain).

Name of the conference: 6th Meeting of the European Clay Groups**Type of event:** Conference**Geographical area:** European Union**Date of event:** 07/09/1987**End date:** 10/09/1987**Organising entity:** European Clay Groups**Type of entity:** Associations and Groups

J. Aróstegui; F. Velasco; F. Nieto; M. Ortega Huertas. pp. 86 - 87.

- 93 Title of the work:** The diatomitic deposits of Sorbas Basin (Almería, SE Spain).

Name of the conference: 6th Meeting of the European Clay Groups**Type of event:** Conference**Geographical area:** European Union**Date of event:** 07/09/1987**End date:** 10/09/1987**Organising entity:** European Clay Groups**Type of entity:** Associations and Groups

C. Sánchez; J. Rodríguez Fernández; M. Ortega Huertas. pp. 478 - 480.

- 94 Title of the work:** Area fuente de los conglomerados neógenos del Corredor de la Alpujarra (Cordillera Bética)

Name of the conference: VI Reunión Científica de la Sociedad Española de Mineralogía y VIII Reunión de la Sociedad Española de Arcillas**Type of event:** Conference**Geographical area:** National**Date of event:** 05/06/1986**End date:** 07/06/1986**Organising entity:** Sociedad Española de Mineralogía & Sociedad Española de Arcillas**Type of entity:** Associations and Groups**City organizing entity:** Zaragoza, Spain**Type of contribution:** Book chapter

M. Ortega Huertas; F. Nieto García; N. Velilla Sánchez.

- 95 Title of the work:** Procesos de alteración supergénica en Sierra Almagrera. Mineralogía de las rocas encajantes

Name of the conference: VI Reunión Científica de la Sociedad Española de Mineralogía y VIII Reunión de la Sociedad Española de Arcillas**Type of event:** Conference**Geographical area:** National**Date of event:** 05/06/1986**End date:** 07/06/1986**Organising entity:** Sociedad Española de Mineralogía & Sociedad Española de Arcillas**Type of entity:** Associations and Groups**City organizing entity:** Zaragoza, Spain**Type of contribution:** Book chapter



F. López Aguayo; M. Ortega Huertas; N. Velilla Sánchez.

- 96 Title of the work:** A geochemical approach to the study of Jurassic detritic sediments in the Subbetic Zone (SE Spain)

Name of the conference: Geochemistry of the Earth Surface and Processes of Mineral Formation.

Type of event: Conference

Geographical area: Non EU International

Date of event: 16/03/1986

End date: 22/03/1986

Organising entity: CSIC y Universidad de Granada

Type of entity: University Centres and Structures and Associated Bodies

City organizing entity: Granada, Spain

Type of contribution: Book chapter

M. Ortega Huertas; I. Palomo Delgado; P. Fenoll Hach-Alí; J. Rodríguez Gordillo.

- 97 Title of the work:** Excursion to the evaporites and the associated strontium deposits of the Granada Basin

Name of the conference: Geochemistry of the Earth Surface and Processes of Mineral Formation

Type of event: Conference

Geographical area: Non EU International

Date of event: 16/03/1986

End date: 22/03/1986

Organising entity: CSIC y Universidad de Granada

Type of entity: University Centres and Structures and Associated Bodies

City organizing entity: Granada, Spain

Type of contribution: Book chapter

J. Martín Martín; M. Ortega Huertas; J. Torres Ruiz.

- 98 Title of the work:** Características estratigráficas y mineralógicas de sedimentos neógenos del Corredor de la Alpujarra (Cordilleras Béticas, España)

Name of the conference: V Reunión Científica de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 11/04/1985

End date: 13/04/1985

Organising entity: Sociedad Española de Mineralogía

Type of entity: Associations and Groups

City organizing entity: Murcia, Spain

Type of contribution: Book chapter

M. Ortega Huertas; F. Nieto García; AC. López Garrido; J. Rodríguez Fernández.

- 99 Title of the work:** Mineralogía de suelos en sedimentos neógenos y cuaternarios en el Sector de Berja (provincia de Almería)

Name of the conference: V Reunión Científica de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 11/04/1985

End date: 13/04/1985

Organising entity: Sociedad Española de Mineralogía

Type of entity: Associations and Groups

City organizing entity: Murcia, Spain

Type of contribution: Book chapter

M. Ortega Huertas; J. Aguilar Ruiz; A. Marañés; M. Simón.

- 100 Title of the work:** Stratigraphical and mineralogical characteristics of Neogene sediments of Alpujarran Corridor (Betic Cordillera, Spain)

Name of the conference: La Microscopia Elettronica nelle Scienze della Terra.



Type of event: Conference

Date of event: 12/10/1984

End date: 13/10/1984

Organising entity: European Mineralogical Society

City organizing entity: Pisa, Italy

Type of contribution: Book chapter

F. Nieto García; M. Ortega Huertas; N. Velilla Sánchez.

Geographical area: European Union

101 Title of the work: Jurassic sedimentation in the Subbetic Zone (Betic Cordillera, SE Spain)

Name of the conference: I Congreso Italo Spagnolo: Clays and Clay Minerals.

Type of event: Conference

Date of event: 24/09/1984

End date: 28/09/1984

Organising entity: Società Italiana della Argille

Type of entity: Associations and Groups

City organizing entity: Seiano di Vico Equense y Amalfi, Italy

Type of contribution: Book chapter

M. Ortega Huertas; I. Palomo Delgado; P. Fenoll Hach-Alí.

Geographical area: European Union

102 Title of the work: Neogene sedimentation in the Granada Depression (SE Spain)

Name of the conference: I Congreso Italo Spagnolo: Clays and Clay Minerals.

Type of event: Conference

Date of event: 24/09/1984

End date: 28/09/1984

Organising entity: Società Italiana della Argille

Type of entity: Associations and Groups

City organizing entity: Seiano di Vico Equense y Amalfi, Italy

Type of contribution: Book chapter

M. Ortega Huertas; J. Rodríguez; P. Fenoll Hach-Alí.

Geographical area: European Union

103 Title of the work: Pelagic Cretaceous black greenish mudstones in the Southern Palaeomargin (Subbetic Zone, Betic Cordillera, SE Spain)

Name of the conference: I Congreso Italo Spagnolo: Clays and Clay Minerals.

Type of event: Conference

Date of event: 24/09/1984

End date: 28/09/1984

Organising entity: Società Italiana della Argille

Type of entity: Associations and Groups

City organizing entity: Seiano di Vico Equense y Amalfi, Italy

Type of contribution: Book chapter

A. López Galindo; MC. Comas Minondo; M. Ortega Huertas; P. Fenoll Hach-Alí.

Geographical area: European Union

104 Title of the work: The Uppermost Miocene of the Depression of Granada (SE Spain): Mineralogy

Name of the conference: I Congreso Italo Spagnolo: Clays and Clay Minerals.

Type of event: Conference

Date of event: 24/09/1984

End date: 28/09/1984

Organising entity: Società Italiana della Argille

Type of entity: Associations and Groups

City organizing entity: Seiano di Vico Equense y Amalfi, Italy

Type of contribution: Book chapter

M. Ortega Huertas; J. Rodríguez; I. Palomo Delgado; AC. López Garrido; P. Fenoll Hach-Alí.

Geographical area: European Union



105 Title of the work: Caracterisation de muscovites et biotites des pegmatites de Sierra Albarrana (Cordoue, Espagne)
Name of the conference: Symposium International Minéralogie dans les Sciences de la Terre et l'Industrie.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 08/05/1984
End date: 10/05/1984
Organising entity: Société Française de Minéralogie **Type of entity:** Associations and Groups
City organizing entity: Toulouse, France
Type of contribution: Book chapter
M. Ortega Huertas; J. Rodríguez Gordillo; A. Garrote Ruiz; P. Fenoll Hach-Alí.

106 Title of the work: Intercroissances d'oxydes de fer et titanium en pegmatites de Sierra Albarrana (Cordoue, Espagne)
Name of the conference: Symposium International Minéralogie dans les Sciences de la Terre et l'Industrie.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 08/05/1984
End date: 10/05/1984
Organising entity: Société Française de Minéralogie **Type of entity:** Associations and Groups
City organizing entity: Toulouse, France
Type of contribution: Book chapter
F. Velasco; M. Ortega Huertas; J. Rodríguez Gordillo; P. Fenoll Hach-Alí.

107 Title of the work: The strontium ore deposits of Granada Basin (SE Spain) and their relation with an evaporitic environment
Name of the conference: Symposium International Minéralogie dans les Sciences de la Terre et l'Industrie.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 08/05/1984
End date: 10/05/1984
Organising entity: Société Française de Minéralogie **Type of entity:** Associations and Groups
City organizing entity: Toulouse, France
Type of contribution: Book chapter
M. Ortega Huertas; J. Martín Martín; J. Torres Ruiz.

108 Title of the work: Contribution of the clay minerals to the study of the palaeogeography of the Subbetic Jurassic Basin (Betic Cordillera, Spain)
Name of the conference: 5th Meeting of the European Clay Groups.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 31/08/1983
End date: 03/09/1983
Organising entity: Univerzita Karlova **Type of entity:** University
City organizing entity: Prague, Czech Republic
Type of contribution: Book chapter
M. Ortega Huertas; I. Palomo Delgado; P. Fenoll Hach-Alí.

109 Title of the work: Intercrecimientos de óxidos de hierro y titanio en pegmatitas de Sierra Albarrana (Córdoba)
Name of the conference: IV Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 06/04/1983
End date: 08/04/1983

Type of entity: Associations and Groups



Organising entity: Sociedad Española de Mineralogía

City organizing entity: Granada, Spain

Type of contribution: Book chapter

M. Ortega Huertas; F. Velasco; J. Rodríguez Gordillo; P. Fenoll Hach-Alí.

110 Title of the work: Natrojarosita en las hemipelagitas cretáceas de la Formación Fardes (Cordilleras Béticas)

Name of the conference: IV Reunión Científica de la Sociedad Española de Mineralogía

Type of event: Conference

Geographical area: National

Date of event: 06/04/1983

End date: 08/04/1983

Organising entity: Sociedad Española de Mineralogía

Type of entity: Associations and Groups

City organizing entity: Granada, Spain

Type of contribution: Book chapter

A. López Galindo; M. Ortega Huertas; M. Sánchez Viñas; E. Sebastián Pardo.

111 Title of the work: Pelitas turbidíticas y pelitas hemipelágicas en la Formación Fardes (Cordilleras Béticas)

Name of the conference: II Coloquio de Estratigrafía y Paleogeografía del Cretácico de España

Type of event: Conference

Geographical area: National

Date of event: 26/09/1982

End date: 03/10/1982

Organising entity: Universidad de Granada

Type of entity: University

City organizing entity: Albacete, Spain

Type of contribution: Book chapter

A. López Galindo; MC. Comas; M. Ortega Huertas; P. Fenoll Hach-Alí.

112 Title of the work: Intercalaciones arcillosas entre turbiditas carbonatadas: ¿hemipelagitas o pelitas turbidíticas? Interpretación en base a su mineralogía (Cretáceo Superior, Cordillera Bética, Andalucía)

Name of the conference: I Reunión Iberoamericana de Arcillas

Type of event: Conference

Geographical area: Non EU International

Date of event: 07/06/1982

End date: 11/06/1982

Organising entity: Sociedad Española de Arcillas

Type of entity: Associations and Groups

City organizing entity: Torremolinos (Málaga), Spain

Type of contribution: Book chapter

A. López Galindo; MC. Comas; M. Ortega Huertas; P. Fenoll Hach-Alí.

113 Title of the work: Pegmatitic assemblages in the metamorphic core of Sierra Albarrana (Córdoba, Spain).

Name of the conference: 13th General Meeting Int. Mineralogical Assoc

Type of event: Conference

Geographical area: Non EU International

Date of event: 1982

End date: 1982

Organising entity: International Mineralogical Association

Type of entity: Associations and Groups

M. Ortega Huertas; A. Garrote; J. Rodríguez Gordillo; Fenoll Hach-Alí P. pp. 641 - 650.

114 Title of the work: Los carbonatos de las facies margosas jurásicas en las Zonas Externas de las Cordilleras Béticas (provincias de Granada y Jaén)

Name of the conference: III Reunión Científica de la Sociedad Española de Mineralogía



Type of event: Conference

Date of event: 25/11/1981

End date: 27/11/1981

Organising entity: Sociedad Española de Mineralogía

City organizing entity: Barcelona, Spain

Type of contribution: Book chapter

I. Palomo Delgado; M. Ortega Huertas; P. Fenoll Hach-Alí.

Geographical area: National

Type of entity: Associations and Groups

115 Title of the work: Clay minerals in relation with the evolution of the Jurassic deposits of the Betic Cordillera (SE Spain)

Name of the conference: 7th International Clay Conference.

Type of event: Conference

Date of event: 06/09/1981

End date: 12/09/1981

Organising entity: Clay Society

City organizing entity: Bolonia y Pavia, Italy

Type of contribution: Book chapter

I. Palomo Delgado; M. Ortega Huertas; P. Fenoll Hach-Alí.

Geographical area: Non EU International

Type of entity: Associations and Groups

116 Title of the work: Mineralogía de arcillas en sedimentos turbidíticos de las Unidades del Campo de Gibraltar (Cádiz)

Name of the conference: V Reunión Anual de la Sociedad Española de Arcillas

Type of event: Conference

Date of event: 24/09/1980

End date: 27/09/1980

Organising entity: Sociedad Española de Arcillas

City organizing entity: Lisboa, Portugal

Type of contribution: Book chapter

M. Ortega Huertas; E. Sebastián Pardo; M. Rodríguez Gallego; F. López Aguayo.

Geographical area: National

Type of entity: Associations and Groups

117 Title of the work: Mineralogía de las facies margosas jurásicas (Subbético Medio, Cordilleras Béticas)

Name of the conference: V Reunión Anual de la Sociedad Española de Arcillas

Type of event: Conference

Date of event: 24/09/1980

End date: 27/09/1980

Organising entity: Sociedad Española de Arcillas

City organizing entity: Lisboa, Portugal

Type of contribution: Book chapter

I. Palomo Delgado; M. Ortega Huertas; P. Fenoll Hach-Alí.

Geographical area: National

Type of entity: Associations and Groups

118 Title of the work: Paleosuelos rojos en la Depresión de Granada (España)

Name of the conference: V Reunión Anual de la Sociedad Española de Arcillas

Type of event: Conference

Date of event: 24/09/1980

End date: 27/09/1980

Organising entity: Sociedad Española de Arcillas

City organizing entity: Lisboa, Portugal

Type of contribution: Book chapter

M. Ortega Huertas; J. Aguilar Ruiz.

Geographical area: National

Type of entity: Associations and Groups

- 119** **Title of the work:** Caracterización de una clorita en el yacimiento de pegmatitas del Cerro de la Sal (Sierra Morena, Córdoba)
Name of the conference: II Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 13/04/1980
End date: 14/03/1980
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sevilla, Spain
Type of contribution: Book chapter
M. Ortega Huertas; P. Fenoll Hach-Alí; J. Rodríguez Gordillo; A. Garrote Ruiz.
- 120** **Title of the work:** Cloritas en sedimentos postorogénicos de las Depresiones de Granada y Guadix Baza. Estudio cristalquímico
Name of the conference: II Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 13/03/1980
End date: 14/03/1980
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sevilla, Spain
Type of contribution: Book chapter
F. Nieto García; M. Ortega Huertas; E. Sebastián Pardo.
- 121** **Title of the work:** Estudio mineralógico y neontológico de sedimentos actuales en el Mar Menor (Murcia)
Name of the conference: II Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 13/03/1980
End date: 14/03/1980
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sevilla, Spain
Type of contribution: Book chapter
M. Ortega Huertas; F. López Aguayo; E. Molina; E. Pina.
- 122** **Title of the work:** Indicios de vermiculitas en las piroxenitas de La Garranchosa (Huelva, España)
Name of the conference: II Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 13/03/1980
End date: 14/03/1980
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Sevilla, Spain
Type of contribution: Book chapter
F. Velasco; M. Ortega Huertas; J. Rodríguez Gordillo; C. Casquet.
- 123** **Title of the work:** Mineralogía de arcillas de la Block Formation (Depresión de Granada). Génesis e implicaciones estratigráficas
Name of the conference: IV Reunión Anual de la Sociedad Española de Arcillas
Type of event: Conference **Geographical area:** National
Date of event: 23/09/1979
End date: 26/09/1979

Organising entity: Sociedad Española de Arcillas **Type of entity:** Associations and Groups
City organizing entity: Santander, Spain
Type of contribution: Book chapter
M. Ortega Huertas.

- 124** **Title of the work:** Los yacimientos de pegmatitas de Sierra Albarrana (Córdoba), Sierra Morena. Peñarroya Pueblonuevo (Córdoba)
Name of the conference: I Reunión del Grupo Español de Ossa Morena (GEOM).
Type of event: Conference **Geographical area:** National
Date of event: 1979
End date: 1979
Organising entity: Grupo Español de Ossa Morena **Type of entity:** Associations and Groups
Type of contribution: Book chapter
A. Garrote Ruiz; M. Ortega Huertas; J. Romero.

- 125** **Title of the work:** Mineralogía de los cantos de rocas de la Block Formation. Depresión de Granada
Name of the conference: I Reunión Científica de la Sociedad Española de Mineralogía
Type of event: Conference **Geographical area:** National
Date of event: 01/12/1978
End date: 03/12/1978
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Madrid, Spain
Type of contribution: Book chapter
M. Ortega Huertas; M. Rodríguez Gallego.

- 126** **Title of the work:** Datos mineralógicos sobre el yacimiento de estroncio de Montevives (Granada, España)
Name of the conference: Symposium International de la Commission de Physico Chimie du Karst.
Type of event: Conference **Geographical area:** Non EU International
Date of event: 22/09/1975
End date: 27/09/1975
Organising entity: University of Granada **Type of entity:** Associations and Groups
City organizing entity: Granada, Spain
Type of contribution: Book chapter
M. Ortega Huertas.

- 127** **Title of the work:** Observaciones mineralógicas sobre el yacimiento de la Estrella (Sierra Nevada, Cordilleras Béticas)
Name of the conference: Reunión Homenaje a la Memoria del Prof. Martín Vivaldi.
Type of event: Conference **Geographical area:** National
Date of event: 1974
End date: 1974
Organising entity: Sociedad Española de Mineralogía **Type of entity:** Associations and Groups
City organizing entity: Granada, Spain
Type of contribution: Book chapter
M. Ortega Huertas.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Associated Editor "Clay Minerals" -Journal Citation Reports
Geographical area: Non EU International
Affiliation entity: GeoScienceWorld
Start-End date: 2001 - 2005
- 2** **Committee title:** Executive Committee of European Clay Groups Association
Start-End date: 1994 - 1996
- 3** **Committee title:** President of Clays Spanish Society
Affiliation entity: Spanish Clay Mineralogical Society **Type of entity:** Associations and Groups
Start-End date: 1994 - 1996
- 4** **Committee title:** Member Editorial Board Bull. Spanish Mineralogical Society
Affiliation entity: Spanish Mineralogical Society
Start-End date: 1988 - 1993
- 5** **Committee title:** Governing Board Councilor of Spanish Mineralogical Society
Affiliation entity: Spanish Mineralogical Society
Start-End date: 1988 - 1992
- 6** **Committee title:** Secretary of Clays Spanish Society
Affiliation entity: Spanish Clay Mineral Society
Start-End date: 1989 - 1991

Organization of R&D activities

- 1** **Title of the activity:** Editor 6th ESF-Impact Markers in the Stratigraphic Record (Abstract Book)
Geographical area: Non EU International
Convening entity: European Science Foundation
City convening entity: Granada, Spain
Start-End date: 19/05/2001 - 25/05/2001
- 2** **Title of the activity:** Editor and Field-Trip Manager: Guide to the Agost and Caravaca sections (Betic Cordillera, Spain)
Type of activity: 6th ESF-Impact Markers in the Stratigraphic Record
Geographical area: Non EU International
Convening entity: European Science Foundation
City convening entity: Granada, Spain
Start-End date: 19/05/2001 - 25/05/2001
- 3** **Title of the activity:** Member of the Organizing Committee and Editor
Type of activity: 6th ESF-Impact Workshop: Impact Markers in the Stratigraphic
Geographical area: European Union

Convening entity: European Science Foundation

Type of entity: Public Research Body

City convening entity: Granada

Start-End date: 19/05/2001 - 25/05/2001

4 Title of the activity: President of the Organizing Committee and Editor

Type of activity: XIV Annual Meeting of the Spanish Clay Mineral Society **Geographical area:** National

Convening entity: Spanish Clay Minerals Society

City convening entity: Santiago de Compostela

Start-End date: 1997 - 1997

5 Title of the activity: President of the Organizing Committee and Editor

Type of activity: Spanish-Italian Meeting on Clay Minerals **Geographical area:** European Union

Convening entity: Spanish and Italian Clay Mineral Societies **Type of entity:** Associations and Groups

City convening entity: Granada

Start-End date: 1996 - 1996

6 Title of the activity: President of the Organizing Committee and Editor

Type of activity: XIII Annual Meeting of the Spanish Clay Mineral Society **Geographical area:** National

Convening entity: Spanish Clay Minerals Society

City convening entity: Almería

Start-End date: 1995 - 1995

7 Title of the activity: Member of Organizing Committee

Type of activity: 2nd Biennial of Society for Geology Applied to Mineral Deposits (SGA) **Geographical area:** European Union

Convening entity: The Society for Geology Applied to Mineral Deposits

City convening entity: Granada

Start-End date: 1993 - 1993

8 Title of the activity: Member of the Scientific Committee

Type of activity: X European Congress on Electron Microscopy. EUREM'92 **Geographical area:** European Union

Convening entity: Electronic Microscopy Spanish Society **Type of entity:** Associations and Groups

City convening entity: Granada

Start-End date: 1992 - 1992

9 Title of the activity: Editor and Member of Organizing Committee and field trip Manager: "Geología e importancia económica de los yacimientos de celestina de la Depresión de Granada (Cordillera Bética, SE de España)".

Type of activity: II Spanish Geological Congress **Geographical area:** National

Convening entity: Spanish Geological Society

City convening entity: Granada

Start-End date: 1988 - 1988

- 10** **Title of the activity:** Editor and Field trip Manager: A survey of some of the soils present in the Alpujarran and Mediterranean Coast (Granada-Almería, SE Spain).
Type of activity: 6th Meeting of European Clay Groups (Euroclay'87) **Geographical area:** European Union
Convening entity: European Clay Groups **Type of entity:** Public Research Body
City convening entity: Sevilla
Start-End date: 1987 - 1987
- 11** **Title of the activity:** Member of the Organizing Committee
Type of activity: 6th Meeting of European Clay Groups (Euroclay 87) **Geographical area:** European Union
Convening entity: European Clay Groups **Type of entity:** Public Research Body
City convening entity: Sevilla
Start-End date: 1987 - 1987
- 12** **Title of the activity:** Member of the Scientific Committee and Section President: Geology and Geochemistry.
Type of activity: 6th Meeting of European Clay Groups (Euroclay'87) **Geographical area:** European Union
Convening entity: European Clay Groups **Type of entity:** Public Research Body
City convening entity: Sevilla
Start-End date: 1987 - 1987
- 13** **Title of the activity:** Member of the Organizing Committee
Type of activity: Geochemistry of the Earth Surface and Processes of Mineral Formation.
Convening entity: University of Granada **Type of entity:** University
City convening entity: Granada
Start-End date: 1986 - 1986
- 14** **Title of the activity:** Member of the Organizing Committee
Type of activity: IV Annual Meeting of the Mineralogical Spanish Society. **Geographical area:** National
Convening entity: Mineralogical Spanish Society **Type of entity:** Associations and Groups
City convening entity: Granada
Start-End date: 1983 - 1983

R&D management

- 1** **Name of the activity:** FPU Grant 2012-Earth Sciences Programme
Type of management: Programme management
Performed tasks: National Coordinator
Entity: Spanish Ministry of Education, Culture and Sport and National Quality Assurance Agency **Type of entity:** Public
Start date: 2012 **Duration:** 4 years
- 2** **Name of the activity:** Interuniversity Research Institute of the Earth System in Andalucía (IISTA)
Type of management: Management of R&D&I actions and projects
Performed tasks: Member of the Board Committee
Entity: Universities of Granada and Córdoba, and Regional Government of Andalusia **Type of entity:** University Centres and Structures and Associated Bodies
Start date: 2004



- 3** **Name of the activity:** Natural Resources and Environmental Committee (Andalusian Programme Research, PAI and PAIDI)
Type of management: Group management
Performed tasks: Member
Entity: Regional Government of Andalusia **Type of entity:** Regional
Start date: 1995 **Duration:** 10 years
- 4** **Name of the activity:** Mineralogy and Geochemistry of the Sedimentary and Metamorphic Environments (RNM179)
Type of management: Group management
Performed tasks: Principal Research
Entity: Regional Government of Andalusia **Type of entity:** Regional
Start date: 1988
Geographical area: Regional

National and international forums and committees

- 1** **Name of the forum:** Coordination Committee UGR-CSIC (IACT)
Professional category: Academic Member
Organising entity: UGR and CSIC **Type of entity:** R&D Centre
City organizing entity: Granada
Start-End date: 14/06/2018 - 20/09/2020
- 2** **Name of the forum:** Claims Commission at the University of Granada
Professional category: Member
Organising entity: University of Granada **Type of entity:** University
Start-End date: 1998 - 2011
- 3** **Name of the forum:** Coordination Committee of the Programme for Evaluation of Teaching (PEP + ACADEMIA)
Professional category: Member
Organising entity: National Quality Assurance Agency (ANECA) **Type of entity:** State agency
Start-End date: 2005 - 2009
- 4** **Name of the forum:** Experimental Sciences Committee (PEP)
Professional category: President
Organising entity: National Quality Assurance Agency (ANECA) **Type of entity:** State agency
Start-End date: 2005 - 2009
- 5** **Name of the forum:** Governing Board Councilor of Natural Reserve of Sierra Nevada
Professional category: Councilor
Organising entity: Junta de Andalucía **Type of entity:** Autonómico
Start-End date: 1998 - 2009



- 6** **Name of the forum:** Experimental Sciences Committee (PEP)
Professional category: Member
Organising entity: National Quality Assurance Agency (ANECA) **Type of entity:** State agency
Start-End date: 2003 - 2005
- 7** **Name of the forum:** Network on Impact Cratering and Evolution of Planet Earth
Professional category: Member
Organising entity: European Science Foundation **Type of entity:** Public Research Body
Start-End date: 1995 - 1998
- 8** **Name of the forum:** Fundación para el Conocimiento Madri+d
Professional category: Academic Member
Organising entity: Regional Quality Assurance Foundation (Madri+d)
Start date: 2016
- 9** **Name of the forum:** Science Committee of the Postgrade Studies (CAEP)
Professional category: President
Organising entity: University of Granada **Type of entity:** University
Start date: 2009

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Research Projects
Performed tasks: Referee
Entity where activity was carried out: Centre Nationale de la Recherche Scientifique-CNRS **Type of entity:** Technological Centre
City of entity: France
- 2** **Name of the activity:** Research Projects
Performed tasks: Referee
Entity where activity was carried out: Ministero dell'Università e Della Ricerca (MIUR-COFIN) **Type of entity:** National
City of entity: Italy
Geographical area: European Union
- 3** **Name of the activity:** Research Projects
Performed tasks: Referee
Entity where activity was carried out: Regional Government Basque Country
City of entity: Bilbao, Basque Country, Spain
- 4** **Name of the activity:** Research Projects
Performed tasks: Referee
Entity where activity was carried out: Regional Government of Castilla y León **Type of entity:** Regional
City of entity: Spain
- 5** **Name of the activity:** Research Projects
Performed tasks: Referee
Entity where activity was carried out: Regional Government of Extremadura



City of entity: Spain

Geographical area: Regional

6 Name of the activity: Research Projects

Performed tasks: Referee

Entity where activity was carried out: Regional Government of Madrid

City of entity: Spain

Geographical area: Regional

7 Name of the activity: Research Projects

Performed tasks: Referee

Entity where activity was carried out: National Agency of the Evaluation and Prospective (ANEP)

City of entity: Spain

Geographical area: National

Other achievements

Stays in public or private R&D centres

1 Entity: Dip.to. di Scienze della Terra

Type of entity: University

City of entity: Perugia, Italy

Start-End date: 02/09/2014 - 21/09/2014

Goals of the stay: Guest

Provable tasks: Anoxic Jurassic Sediments (Apennines, Italy): clays and geochemistry

2 Entity: Dp. de Geociências. Univ. de Aveiro

City of entity: Aveiro, Portugal

Start-End date: 02/07/2013 - 20/09/2013

Goals of the stay: Guest

Provable tasks: Industrial Clay Minerals

3 Entity: ETH Zürich

Type of entity: Public Research Body

City of entity: Zürich, Switzerland

Start-End date: 01/01/2009 - 28/02/2009

Goals of the stay: Guest

Provable tasks: Clay mineral isotopes and Cretaceous-Tertiary sediments

4 Entity: Lab Sédimentologie et Géodynamique, CNRS, Univ Lille, France

City of entity: Lille, France

Start-End date: 06/05/2002 - 15/07/2002

Goals of the stay: Guest

Provable tasks: Clay minerals and K/T catastrophic event

5 Entity: Istituto di Ricerca sulle Argille

Type of entity: University

Faculty, institute or centre: Universities of Potenza and Bari

City of entity: Potenza and Bari, Italy

Start-End date: 01/07/1997 - 31/08/1997

Goals of the stay: Guest



Provable tasks: Mineralogical and Geochemical studies on source areas of the mesozoic sediments in the Betic Cordilleras (Spain)

- 6** **Entity:** Dip.to. di Scienze della Terra **Type of entity:** University
Faculty, institute or centre: University of Rome
City of entity: Roma, Italy
Start-End date: 01/08/1994 - 30/09/1994
Goals of the stay: Guest
Provable tasks: Sr isotopes of the Cretaceous-Tertiary sediments in Spanish, Italian and Algerian stratigraphical sequences.
- 7** **Entity:** Dip.to. di Scienze della Terra **Type of entity:** University
Faculty, institute or centre: University of Rome
City of entity: Roma, Italy
Start-End date: 01/11/1993 - 30/11/1993
Goals of the stay: Guest
Provable tasks: Geochemical anomalies on the Cretaceous-Tertiary and Paleocene-Eocene boundaries. The examples of Spanish, Italian and French sequences.
- 8** **Entity:** Dip.to. di Scienze della Terra **Type of entity:** University
Faculty, institute or centre: Universities of Rome and Perugia
City of entity: Roma y Perugia, Italy
Start-End date: 01/11/1992 - 30/11/1992
Goals of the stay: Guest
Provable tasks: Sr and Sm-Nd isotopes. Geochemistry and Mineralogy of the Toarcian black-shale facies in the Umbro-Marchigiana Basin (Central Apennines, Italy)
- 9** **Entity:** Dip.to. di Scienze della Terra **Type of entity:** University
Faculty, institute or centre: Universities of Perugia and Rome
City of entity: Perugia y Roma, Italy
Start-End date: 01/12/1991 - 30/12/1991
Goals of the stay: Guest
Provable tasks: Mineralogy and Geochemistry of the lower Jurassic sediments (Apennines, Italy) and Sr isotopes in the Cretaceous-Tertiary boundary.
- 10** **Entity:** Dip.to. Geomineralogico y Dip.to. Chimica **Type of entity:** University
Generale-Radiochimica
Faculty, institute or centre: Universities of Bari and Pavia
City of entity: Bari y Pavia, Italy
Start-End date: 01/12/1989 - 30/12/1989
Goals of the stay: Guest
Provable tasks: FRX and NA on pelagic sediments.
- 11** **Entity:** Dip.to. Geomineralogico, Dip.to. Giacimenti **Type of entity:** University
Minerari y Dip.to. Scienze della Terra
Faculty, institute or centre: Universities of Bari, Cagliari and Pavia
City of entity: Bari, Cagliari, Pavia, Italy
Start-End date: 01/02/1988 - 30/03/1988
Goals of the stay: Guest
Provable tasks: Clay mineral sediments and Strontium deposits.



- 12** **Entity:** Structures and Materials Laboratory-MOPU **Type of entity:** Technological Centre
Faculty, institute or centre: Universidad Politécnica de Madrid
City of entity: Madrid, Spain
Start-End date: 01/02/1987 - 28/02/1987
Goals of the stay: Guest
Provable tasks: SEM of Jurassic clay sediments.
- 13** **Entity:** Structures and Materials Laboratory-MOPU **Type of entity:** Technological Centre
Faculty, institute or centre: Universidad Politécnica de Madrid
City of entity: Madrid, Spain
Start-End date: 01/04/1986 - 30/04/1986
Goals of the stay: Guest
Provable tasks: SEM y fabric of the clay minerals.
- 14** **Entity:** Institut de Géologie **Type of entity:** University Research Institute
Faculty, institute or centre: University
City of entity: Rennes, France
Start-End date: 20/06/1983 - 20/07/1983
Goals of the stay: Post-doctoral
Provable tasks: Feldspars, Feldespathoids and their parageneses
- 15** **Entity:** Mineral Physico-Chemical Research Institute-CSIC **Type of entity:** Innovation and Technology Centres
Faculty, institute or centre: CSIC-Madrid
City of entity: Madrid, Spain
Start-End date: 01/04/1980 - 30/05/1980
Goals of the stay: Guest
Provable tasks: IR of biotites and muscovites in granitic pegmatites from Sierra Albarrana.

Periods of research activity

- 1** **Nº of recognized periods:** 7
Geographical area: National
Certifying entity: CNEAI-Spanish Ministry of Education and Science. SEE DETAILS IN PAGE 4: 6+1*
--*For administrative purposes the period 2014-2009 (Full Professor) substitutes 1978-1973 (Associated Professor)
City certifying entity: Spain
Date of recognition: 2014
- 2** **Nº of recognized periods:** 5
Geographical area: Regional
Certifying entity: Regional Government of Andalusia **Type of entity:** Regional
Date of recognition: 2003