



Violeta Borruel Abadía

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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.

Violeta Borrueal Abadía obtained the degree in Geology by the University of Zaragoza in 2011, and the following year she finished the official master "Introduction to research in Geology" at the same university.

Her research career began during the Degree study, since in the last year she did professional practices in the Spanish Geological Survey (IGME), studying Quaternary lacustrine sediments based on environmental paleomagnetism techniques. This allowed her to continue with this line of research and to present the results in three congresses and two scientific papers.

Afterwards, between 2013 and 2017 she did a doctorate at the Complutense University of Madrid (UCM) with a competitive grant from the Spanish Government for the training of research personnel (FPI) and a contract with the Geosciences Institute (CSIC-UCM). The defense of the doctoral thesis took place in July 2017, obtaining the title of PhD with European Mention, the maximum qualification (*summa cum laude*), and the extraordinary award of doctorate. In this period and until now, the research focused on the study of environmental variations recorded in the Permian and Triassic rocks of the western Peri-Tethys from sedimentological, stratigraphic, mineralogical (focused on aluminium phosphate-sulphate minerals), geochemical and paleontological studies. Special emphasis was on the study of climate changes and environment acidity and its relationship with biotic crises and recovery of life.

During this stage she completed two stays abroad of three months each of them. The first one was at the Museum of Nature South Tyrol in Bolzano (Italy) with Dr. Evelyn Kustatscher, studying of the taxonomy and taphonomy of macroflora associations. The second was at the University of Leeds (UK) with the Drs. Simon Bottrell and Robert Newton, carrying out sequential extractions of phosphorus and iron.

In December 2017, she obtained a contract associated with a project of the European Union (H2020), for the study of Holocene environmental variations recorded in lacustrine sediments through sedimentological and geochemical analyses. The following year, she achieved another contract associated with a EU project for the study of sulphate minerals by petrographic and electron microprobe techniques.

In addition, from 2017 to the present she stays as an honorary collaborator in the Faculty of Geological Sciences of the UCM. And since the 2015/2016 academic year until now she has collaborated in teaching tasks in that Faculty.

During her research career she has published 13 articles, 5 in the first quartile journals, and she has participated in 18 conferences. These investigations have been developed within the framework of four competitive projects (national plan and European Union), within multidisciplinary teams, and in collaboration with groups from different countries (UK, Italy, France and Canada). During these years, she has tried to improve her training in different national and international research centres (CSIC, IGME, UCM, ICTJA, UCLM, University of Leeds and Museum of Nature South Tyrol), as result, she currently maintains collaborations with these centers, working with some of their researchers or using their laboratories. In the future, she will try to continue working in different aspects of environmental alterations, as



acidification and climate change, to improve the knowledge related to the present-day rapid environmental changes and how they are affecting to organisms.



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.

- Total publications: 13
 - Articles in the first quartile (Q1): 5
- Works submitted to national or international conferences: 18
 - Works submitted to international conferences published in abstract books with ISBN/ISSN: 11
- Total citations: 28 (source: Google Scholar)
- h-index: 3 (sources: Google Scholar and Researched ID)

Violeta Borruel Abadía

Surname(s): **Borruel Abadía**
Name: **Violeta**
ORCID: **0000-0003-3257-8168**
ResearcherID: **M-2947-2014**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Instituto de Geociencias
Professional category: Higher Degree of Technical and Professional Activities. G1
Start date: 05/12/2018
Type of contract: Temporary employment contract **Dedication regime:** Full time
Primary (UNESCO code): 250600 - Geology
Secondary (UNESCO code): 250610 - Mineral deposits; 250611 - Mineralogy; 250699 - Other

Employing entity: Universidad Complutense de Madrid **Type of entity:** University
Department: Estratigrafía, Facultad de Ciencias Geológicas
Professional category: Honorary Collaborator
Start date: 01/03/2017
Dedication regime: Part time
Primary (UNESCO code): 250600 - Geology

Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto Geológico y Minero de España	Higher Degree of Technical and Professional Activities. G1	01/12/2017
2	Instituto de Geociencias (CSIC-UCM)	Higher Degree of Technical and Professional Activities. G1	01/03/2015
3	Instituto de Geociencias (CSIC-UCM)	Research fellow (predoctoral)	01/03/2013

- 1** **Employing entity:** Instituto Geológico y Minero de España **Type of entity:** Public Research Body
Professional category: Higher Degree of Technical and Professional Activities. G1
Start-End date: 01/12/2017 - 30/09/2018 **Duration:** 10 months
Primary (UNESCO code): 250600 - Geology
Secondary (UNESCO code): 250200 - Climatology; 250300 - Geochemistry; 250604 - Environmental geology; 250618 - Sedimentology; 250619 - Stratigraphy; 250622 - Well log analysis



- 2** **Employing entity:** Instituto de Geociencias (CSIC-UCM)
Professional category: Higher Degree of Technical and Professional Activities. G1
Start-End date: 01/03/2015 - 28/02/2017 **Duration:** 2 years
Primary (UNESCO code): 250600 - Geology
Secondary (UNESCO code): 250200 - Climatology; 250300 - Geochemistry; 250604 - Environmental geology; 250611 - Mineralogy; 250618 - Sedimentology; 250619 - Stratigraphy
- 3** **Employing entity:** Instituto de Geociencias **Type of entity:** Public Research Body (CSIC-UCM)
Professional category: Research fellow (predoctoral)
Start-End date: 01/03/2013 - 28/02/2015 **Duration:** 2 years
Primary (UNESCO code): 250600 - Geology
Secondary (UNESCO code): 250200 - Climatology; 250300 - Geochemistry; 250604 - Environmental geology; 250611 - Mineralogy; 250618 - Sedimentology; 250619 - Stratigraphy



Education

University education

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

- 1 **University degree:** University Master
Name of qualification: Master of Introduction to research in Geology
Degree awarding entity: Universidad de Zaragoza **Type of entity:** University
Date of qualification: 21/02/2012

- 2 **University degree:** Higher degree
Name of qualification: Degree in Geological Sciences
Degree awarding entity: Universidad de Zaragoza **Type of entity:** University
Date of qualification: 25/02/2011

Doctorates

Doctorate programme: Official Program of Geology and Geological Engineering
Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid
City degree awarding entity: Madrid, Spain
Date of degree: 04/07/2017
European doctorate: Yes **Date of certificate:** 04/07/2017
Thesis director: José López Gómez
Thesis co-director: José Fernández Barrenechea; Raúl De la Horra Del Barco
Obtained qualification: Sobresaliente Cum Laude
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 18/09/2018

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	B2	B2	B2	B2

Teaching experience



General teaching experience

- 1** **Name of the course:** geological mapping
Type of teaching: Field work
Type of subject: Obligatory
University degree: Degree in Geology
Course given: 2
Start date: 09/02/2015 **End date:** 25/04/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 32
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Geológicas
- 2** **Name of the course:** geological mapping
Type of teaching: Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Degree in Geological Engineering
Course given: 3
Start date: 08/02/2016 **End date:** 20/05/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 74
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Geológicas
- 3** **Name of the course:** Stratigraphy
Type of teaching: Field work
Type of subject: Obligatory
University degree: Degree in Geology
Course given: 2
Start date: 04/04/2017 **End date:** 04/04/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Geológicas
- 4** **Name of the course:** GIS and remote sensing
Type of teaching: Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Degree in Geological Engineering
Course given: 3
Start date: 26/09/2016 **End date:** 20/01/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 30
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Geológicas
- 5** **Name of the course:** Graphic and cartographic expression
Type of teaching: Practical work (classroom-problems)
Type of subject: Obligatory



University degree: Degree in Geology

Course given: 1

Start date: 09/02/2015

End date: 15/05/2015

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 36

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Geológicas

Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Geomateriales. Procesos de formación Mineral
Aims of the group: Study of the formation conditions and properties of the mineral matter, and characterization, evaluation and modeling of mineral deposits.
Type of collaboration: Co-authorship of publications
Affiliation entity: Geosciences Institute (CSIC-UCM) **Type of entity:** State agency
Start date: 05/12/2018
- 2 Name of the group:** Nature Insurance value: Assessment and Demonstration. Demo of Medina del Campo aquifer
Aims of the group: Hydrogeological study of the Medina del Campo groundwater body (MCGB) and impact assessment of water management options. Analysis of the impact of climate change and man-induced changes on PGRES
Type of collaboration: Co-authorship of publications
Affiliation entity: Instituto Geológico y Minero de España **Type of entity:** Public Research Body
Start date: 01/12/2017 **Duration:** 10 months
- 3 Name of the group:** Sedimentary Geology and Environmental Change
Aims of the group: Earth System Evolution and Climate Variability
Standardised code: 642853 **Type of collaboration:** Co-authorship of publications
Affiliation entity: Geosciences Institute (CSIC-UCM)
Start date: 01/03/2013 **Duration:** 4 years
- 4 Name of the group:** Sedimentary Geology, Paleoclimate and Environmental Change (CLIMSED)
Aims of the group: Global Change. Climatic and environmental changes, paleoinundations, paleohydrological analyses and analyses of sea level variations.
Type of collaboration: Co-authorship of publications
Affiliation entity: Universidad Complutense de Madrid **Type of entity:** University
Start date: 01/03/2013 **Duration:** 5 years - 11 months

Scientific or technological activities

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

- 1** **Name of the project:** MICRO-ECOS: Microscale and Electrometallurgically assisted Cleaning of Complex Sulphide Ores
Identify key words: Mineralogy; Geochemistry
Entity where project took place: Geoscience Institute (CSIC-UCM)
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Fernando Tornos
Funding entity or bodies:
EIT Raw Materials. European Union
Code according to the funding entity: EIT16451 / IGEO61
Start-End date: 01/04/2017 - 31/03/2020
Dedication regime: Full time
Applicant's contribution: Participation in the project from December 5th, 2018 to the present. Analysis and quantification of sulfides, through petrographic study, SEM and electronic Microprobe.
- 2** **Name of the project:** Relación continente-océano en la crisis y recuperación de los ecosistemas en la margen O del Tethys durante la transición Pérmico – Triásica
Identify key words: Environmental chemistry; Climatology; Sedimentology; Geochemistry
Identify key words: Geology
Entity where project took place: Geosciences Institute (CSIC-UCM) **Type of entity:** State agency
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): José López Gómez
Nº of researchers: 14
Funding entity or bodies:
Ministerio de Economía y Competitividad
City funding entity: Spain
Code according to the funding entity: CGL2014-52699-P
Start-End date: 01/01/2015 - 31/12/2019
Total amount: 95.000 €
Dedication regime: Full time
Applicant's contribution: Participation in the project from January 1, 2015 to February 28, 2017
- 3** **Name of the project:** Nature insurance value: assessment and demonstration (NAIAD)
Identify key words: Climate change; Sedimentology; Geochemistry; Environmental impact
Entity where project took place: Instituto Geológico y Minero de España **Type of entity:** Public Research Body
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): África De la Hera Portillo
Funding entity or bodies:
Horizonte 2020. European Union
Code according to the funding entity: 730497 - NAIAD - H2020-SC5-2016-2017/H2020-SC5-2016-OneStage
Start-End date: 01/12/2016 - 30/11/2019



Total amount: 5.081.176 €

Dedication regime: Full time

Applicant's contribution: Participation in the project from December 1st, 2017 to September 30th, 2018.

- 4** **Name of the project:** Paleoclima y Cambio Global
Identify key words: Environmental chemistry; Climatology; Geology
Entity where project took place: Universidad Complutense de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Javier Martín Chivelet
Nº of researchers: 21
Funding entity or bodies: Universidad Complutense de Madrid **Type of entity:** University
City funding entity: Madrid, Community of Madrid, Spain
BANCO SANTANDER, S.A.
City funding entity: Spain
Code according to the funding entity: 910198
Start-End date: 21/11/2014 - 20/11/2015
Total amount: 5.188 €
Applicant's contribution: Participation in the project from November 21, 2014 to November 20, 2015

- 5** **Name of the project:** Cambios sedimentarios, geoquímicos y bióticos en la transición Paleozoico-Mesozoico del E. de Iberia.
Identify key words: Environmental chemistry; Climatology; Sedimentology; Mineralogy
Entity where project took place: Geosciences Institute (CSIC-UCM) **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): José López Gómez
Nº of researchers: 14
Funding entity or bodies: Ministerio de Economía y Competitividad
City funding entity: Spain
Code according to the funding entity: CGL2011-24408
Start-End date: 01/01/2012 - 31/12/2014
Total amount: 108.900 €
Dedication regime: Full time
Applicant's contribution: Participation in the project from March 1, 2013 to December 31, 2014.

- 6** **Name of the project:** Campaña Científica de investigación de la Zona Económica Exclusiva Española (ZEEE) 2011. On board the oceanographic research ship "Hespérides"
Degree of contribution: Current university student
Entity where project took place: Instituto Geológico y Minero de España **Type of entity:** Public Research Body
Funding entity or bodies: Spanish Government
Start-End date: 03/09/2011 - 19/09/2011
Dedication regime: Full time

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** José López-Gómez; Fidel Martín-González; Nemesio Heredia; Raúl De La Horra; José F Barrenechea; Patricia Cadenas; Manuel Juncal; José B Diez; Violeta Borrueal-Abadía; David Pedreira; Joaquín García-Sansegundo; Pedro Farias; Carlos Galé; Marceliano Lago; Teresa Ubide; Gabriela Fernández-Viejo; Georges Gand. New lithostratigraphy for the Cantabrian Mountains: A common tectono-stratigraphic evolution for the onset of the Alpine cycle in the W Pyrenean realm, N Spain. *Earth-Science Reviews*. Elsevier, 2018.

Type of production: Scientific paper

Format: Journal

Position of signature: 9

Total no. authors: 17

Corresponding author: No

Impact source: ISI

Category: Science Edition - GEOLOGY

Impact index in year of publication: 9.452 (5-Year Impact Factor)

Journal in the top 25%: Yes

- 2** Manuel Juncal; José B. Diez; Raúl de la Horra; Belén Galán-Abellán; Violeta Borrueal-Abadía; José F. Barrenechea; Alfredo Arche; José López-Gómez. Palynostratigraphy of the Middle Triassic (Anisian) Eslida Formation, SE Iberian Ranges, Spain. *Palynology*. 42 - 2, pp. 149 - 157. Taylor & Francis, 2018. Available on-line at: <<https://doi.org/10.1080/01916122.2017.1310766>>. ISSN 01916122

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Total no. authors: 8

Corresponding author: No

Impact source: ISI

Category: Science Edition - GEOLOGY

Impact index in year of publication: 1.429

- 3** Violeta Borrueal-Abadía; José F. Barrenechea; Ana Belén Galán-Abellán; Jacinto Alonso-Azcárate; Raúl De la Horra; Francisco Javier Luque; José López-Gómez. Quantifying aluminium phosphate-sulphate minerals as markers of acidic conditions during the Permian-Triassic transition in the Iberian Ranges, E Spain. *Chemical Geology*. 429, pp. 10 - 20. 2016. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0009254116301218>>. ISSN 0009-2541

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - GEOLOGY

Impact index in year of publication: 3,347

Journal in the top 25%: Yes

Source of citations: Google Scholar

Citations: 8

- 4** Violeta Borrueal-Abadía; José López-Gómez; Raúl De la Horra; Belén Galán-Abellán; José F. Barrenechea; Alfredo Arche; Ausonio Ronchi; Nicola Gretter; Mariano Marzo. Climate changes during the Early-Middle Triassic transition in the E. Iberian plate and their palaeogeographic significance in the western Tethys continental domain. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 440, pp. 671 - 689. 2015. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0031018215005532>>. ISSN 0031-0182

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

**Impact source:** ISI**Impact index in year of publication:** 3,02**Source of citations:** Google Scholar**Category:** Science Edition - GEOLOGY**Journal in the top 25%:** Yes**Citations:** 11

- 5** Violeta Borrueal-Abadía; Miriam GómezPaccard; Juan C Larrasoaña; Mayte Rico; Blas Valero-Garcés; Ana Moreno; Margarita Jambriña-Enríquez; Ruth Soto. Late Pleistocene to Holocene palaeoenvironmental variability in the north-west Spanish mountains: insights from a source-to-sink environmental magnetic study of Lake Sanabria. *Journal of Quaternary Science*. 30 - 3, pp. 222 - 234. 2015. ISSN 02678179

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Impact source:** ISI**Category:** Science Edition - GEOLOGY**Impact index in year of publication:** 2,553**Journal in the top 25%:** Yes**Source of citations:** Google Scholar**Citations:** 2

- 6** Violeta Borrueal-Abadía; Ana Belén Galán-Abellán; Evelyn Kustatscher; Carmen Diéguez; José López-Gómez; Raúl De la Horra; José F. Barrenechea; Alfredo Arche. Palaeoenvironmental reconstruction of the early Anisian from sedimentology and plant remains in the SE Iberian Range (E Spain). *Palaeogeography, Palaeoclimatology, Palaeoecology*. 414, pp. 352 - 369. 2014. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0031018214004696>>. ISSN 0031-0182

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Impact source:** ISI**Category:** Science Edition - GEOLOGY**Impact index in year of publication:** 2,942**Journal in the top 25%:** Yes**Source of citations:** Google Scholar**Citations:** 4

- 7** Violeta Borrueal Abadía; Juan Cruz Larrasoaña; Miriam Gómez Paccard; María Teresa Rico; Blas Valero Garcés; Ana Moreno; Ruth Soto. Propiedades magnéticas de sedimentos del Lago de Sanabria y su área fuente (NO España): implicaciones paleoambientales. 13, pp. 1124 - 1127. *Geotemas*, 2012. ISSN 1576-5172

Type of production: Scientific paper**Format:** Journal**Position of signature:** 1**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 7**Corresponding author:** Yes

- 8** José López-Gómez; Jacinto Alónso-Azcárate; Alfredo Arche; José Arribas; José F. Barrenechea; Violeta Borrueal-Abadía; Sylvie Bourquin; Patricia Cadenas; Julia Cuevas; Raúl De la Horra; José Bienvenido Díez; María José Escudero-Mozo; Gabriela Fernández-Viejo; Belén Galán-Abellán; Carlos Galé; Jorge Gaspar-Escribano; José Gisbert Aguilar; David Gómez-Gras; Antonio Goy; Nicola Gretter; Nemesio Heredia Carballo; Marceliano Lago; Joan Lloret; Javier Luque; Leopoldo Márquez; Ana Márquez-Aliaga; Agustín Martín-Algarra; Javier Martín-Chivelet; Fidel Martín-González; Mariano Marzo; Ramón Mercedes-Martín; Federico Ortí; Alberto Pérez-López; Fernando Pérez-Valera; Juan Alberto Pérez-Valera; Pablo Plasencia; Emilio Ramos; Lidia Rodríguez-Méndez; Ausonio Ronchi; Ramón Salas; David Sánchez-Fernández; Yolanda Sánchez-Moya; Alfonso Sopeña; Ángela Suárez-Rodríguez; José María Tubía; Teresa Ubide; Blas Valero Garcés; Henar Vargas; César Viseras. Permian-Triassic Rifting Stage. *The Geology of Iberia: A Geodynamic. Volume 3: The Alpine Cycle*. 3, pp. 886. Springer Nature, 2019. ISBN 978-3-030-11294-3

Type of production: Book chapter**Format:** Book**Position of signature:** 6**Total no. authors:** 49**Corresponding author:** No

- 9** África De la Hera Portillo; Julio López Gutiérrez; Rosa Mediavilla; Violeta Borrueal-Abadía; Teresa Orozco Cuenca. Análisis geológico y cartográfico del origen de los humedales asociados a la masa de agua subterránea de Medina del Campo. Electronic book of X Congresso Ibérico de Gestão e Planeamento da Água. AT2 - C4, pp. 1 - 13. (Portugal): Fundación Nueva Cultura del Agua, 2018. ISBN 978-84-944788-5-7
Type of production: Book chapter **Format:** Book
Position of signature: 4
Total no. authors: 5 **Corresponding author:** No
- 10** A. De la Hera Portillo; J. López-Gutiérrez; R. Mediavilla López; V. Borrueal-Abadía; M. Llorente Isidro; M.D. Bejarano; T. Orozco Cuenca. Hidrogeología histórica de las Lagunas Reales de Medina del Campo (Cuenca del Duero, España). Agua subterránea, medio ambiente, salud y patrimonio. Comunicaciones presentadas al "Congreso Ibérico sobre Agua subterránea, medio ambiente, salud y patrimonio". pp. 207 - 216. Asociación Internacional de Hidrogeólogos – Grupo Español, 2018. ISBN 978-84-938046-6-4
Type of production: Book chapter **Format:** Book
Position of signature: 4
Total no. authors: 7 **Corresponding author:** No
- 11** Ana Belén Galán-Abellán; Violeta Borrueal-Abadía; José López-Gómez; José F. Barrenechea; Jacinto Alonso-Azcárate; Raúl De la Horra; Javier Luque. Life recovery after the P-T crisis on the Western Tethys: palaeoenvironmental markers in terrestrial Lower-Middle Triassic settings in Spain. Critical Intervals in Earth History. pp. 53 - 55. Palaeobiological innovations. University of Science and Technology of China press, 2017. ISBN 978-84-616-6132-9
Type of production: Book chapter **Format:** Book
Position of signature: 2
Total no. authors: 7 **Corresponding author:** No
- 12** Belén Galán-Abellán; Raúl De la Horra; José López-Gómez; José F Barrenechea; Mariano Marzo; Alfredo Arche; Violeta Borrueal. Early Triassic Fluvial-Aeolian Interaction in the Catalan Ranges (Northeastern Spain) and Its Palaeogeographical Significance for the Western Tethys. STRATI 2013. pp. 1181 - 1184. Springer Geology, 2014. ISBN 978-3-319-04363-0
Type of production: Book chapter **Format:** Book
Position of signature: 7 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 7 **Corresponding author:** No
- 13** Raúl De la Horra; José López Gómez; Alfredo Arche; María José Escudero Mozo; Ana Belén Galán Abellán; José Fernández Barrenechea; Javier Martín Chivelet; Violeta Borrueal Abadía. The Permian -Triassic rocks of the eastern Iberian Ranges: A general approach in the context of the first stages of the break-up of Pangea. Instituto de Geociencias (CSIC-UCM), 2013. ISBN 978-84-616-6132-9
Type of production: Field guide **Format:** Book
Position of signature: 8 **Degree of contribution:** Author or co-author of entire book
Total no. authors: 8 **Corresponding author:** No

Works submitted to national or international conferences

- 1** **Title of the work:** Hidrogeología histórica de las Lagunas Reales de Medina del Campo (Cuenca del Duero, España)
Name of the conference: Congreso Ibérico sobre Agua subterránea, medio ambiente, salud y patrimonio
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: No

City of event: Salamanca, Spain

Date of event: 12/11/2018

End date: 15/11/2018

Organising entity: Grupo Español de la AIH y Grupo Español de IMGA

With external admission assessment committee: Yes

A. De la Hera Portillo; J. López-Gutiérrez; R. Mediavilla López; V. Borrueal-Abadía; M. Llorente Isidro; M.D. Bejarano; T. Orozco Cuenca.

2 Title of the work: Análisis geológico y cartográfico del origen de los humedales asociados a la masa de agua subterránea de Medina del Campo

Name of the conference: X Congreso Ibérico de Gestión y Planificación del Agua

Type of event: Conference

Geographical area: Iberian

Corresponding author: No

City of event: Coimbra, Portugal

Date of event: 2018

Organising entity: FUNDACION NUEVA CULTURA DEL AGUA

A. De la Hera Portillo; J. López Gutiérrez; R. Mediavilla; V. Borrueal-Abadía; T. Orozco Cuenca.

3 Title of the work: Continental sedimentary response to acidity during the Early Triassic (Smithian-Spathian) in the westernmost Peri-Tethys.

Name of the conference: EGU General Assembly Conference

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Vienna, Austria

Date of event: 2018

Organising entity: European Geosciences Union General Assembly

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Violeta Borrueal-Abadía; Ana Belén Galán-Abellán; José F Barrenechea; Raúl De la Horra; Francisco Javier Luque; Jacinto Alonso-Azcárate; José López-Gómez; Ausonio Ronchi; Mariano Marzo. "Continental sedimentary response to acidity during the Early Triassic (Smithian-Spathian) in the westernmost Peri-Tethys.". En: EGU General Assembly Conference Abstracts. 20, pp. 5357. 2018.

Paper ID: EGU2018-5357

4 Title of the work: Life recovery after the P-T crisis on the Western Tethys: palaeoenvironmental markers in terrestrial Lower-Middle Triassic settings in Spain

Name of the conference: 2nd Joint Conference of the Palaeontological Society of China and the Paläontologische Gesellschaft

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Yichang, China

Date of event: 2017

Organising entity: Palaeontological Society of China and the Paläontologische Gesellschaft

With external admission assessment committee: Yes

A.B. Galán-Abellán; V. Borrueal-Abadía; J. López-Gómez; J.F. Barrenechea; J. Alonso-Azcárate; R. De la Horra; J. Luque.

5 Title of the work: Unconformity- bounded paleofloras in the Carboniferous-Permian transition at the Henarejos basin, SE Iberian Ranges (Spain)

Name of the conference: 33rd International Meeting of Sedimentology



Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Toulouse, France

Date of event: 2017

Organising entity: International Sedimentological Association (IAS) and Association des Sédimentologues Français (ASF)

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

R. De la Horra; V. Borruel-Abadía; J.M. Insua-Arévalo; J. López-Gómez; J. F. Barrenechea. "Unconformity-bounded paleofloras in the Carboniferous-Permian transition at the Henarejos basin, SE Iberian Ranges (Spain)". En: 33rd International Meeting of Sedimentology. pp. 226. 2017. ISBN 2-907205-78-1

6 Title of the work: A first anisian palynological assemblage of Eslida Formation (SE Iberian Ranges, Spain)

Name of the conference: 4th International Meeting of Agora Paleobotanica

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Brussels, Belgium

Date of event: 2016

Organising entity: Agora Paleobotanica

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

M. Juncal; J.B. Díez; R. De la Horra; A.B. Galán-Abellán; V. Borruel-Abadía; J. López-Gómez; A. Arche. "A first anisian palynological assemblage of Eslida Formation (SE Iberian Ranges, Spain)". En: Abstracts book of 4th International Meeting of Agora Paleobotanica. 2016. ISBN 978-84-608-9729-3

7 Title of the work: Aluminium-phosphate-sulphate minerals as markers of sustained acidic conditions during the Permian-Triassic transition in E Iberia.

Name of the conference: European Geosciences Union General Assembly

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Vienna, Austria

Date of event: 2016

Organising entity: European Geosciences Union General Assembly

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Violeta Borruel-Abadía; Ana Belén Galán-Abellán; José F Barrenechea; Raúl De la Horra; Francisco Javier Luque; Jacinto Alonso-Azcárate; José López-Gómez. "Aluminium-phosphate-sulphate minerals as markers of sustained acidic conditions during the Permian-Triassic transition in E Iberia.". En: EGU General Assembly Conference Abstracts. 18, pp. 14912 - 14912. 2016.

Paper ID: EGU2016-14912

8 Title of the work: First palynological datation of the Triassic Eslida Formation (Buntsandstein facies in the SE Iberian Ranges)

Name of the conference: 1st International Meeting of Early-stage Researchers in Palaeontology. New perspectives on the Evolution of Phanerozoic Biotas and Ecosystems Conference proceedings

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Alpuente, Spain



Date of event: 2016

Organising entity: Universitat de València y Museo Paleontológico de Alpuente

Publication in conference proceedings: Yes

M. Juncal; J.B. Díez; R. De la Horra; A.B. Galán-Abellán; A. Borruel-Abadía; J. López-Gómez; A. Arche. "First palynological datation of the Triassic Esilda Formation (Buntsandstein facies in the SE Iberian Ranges)". En: New perspectives on the Evolution of Phanerozoic Biotas and Ecosystems Conference proceedings. pp. 62. 2016.

9 Title of the work: Climate variations during the Early–Middle Triassic transition in the E. Iberian plate (10°–14°N) and their palaeogeographic significance in the western Tethys continental domain.

Name of the conference: 12th International Workshop on the Permo-Triassic / 2nd Boreal Triassic Conference.

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Svalbard, Norway

Date of event: 2015

Organising entity: Geological Society of Norway

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

V. Borruel-Abadía; J. López-Gómez; R. De la Horra; A.B. Galán-Abellán; J.F. Barrenechea; A. Arche; A. Ronchi; N. Gretter; M. Marzo. "Climate variations during the Early–Middle Triassic transition in the E. Iberian plate (10°–14°N) and their palaeogeographic significance in the western Tethys continental domain.". En: Abstracts and proceedings of the Geological Society of Norway, Nakrem and Mørk (Edts). 4, pp. 2. 2015. ISBN 978-82-8347-000-0

10 Title of the work: Quantifying aluminium-phosphate-sulphate minerals as markers of acidic conditions during the Permian–Triassic transition in the Iberian Ranges.

Name of the conference: 12th International Workshop on the Permo-Triassic / 2nd Boreal Triassic Conference

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Svalbard, Norway

Date of event: 2015

Organising entity: Geological Society of Norway

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

V. Borruel-Abadía; J. López-Gómez; R. De la Horra; A.B. Galán-Abellán; J.F. Barrenechea; A. Arche; A. Ronchi; N. Gretter; M. Marzo. "Quantifying aluminium-phosphate-sulphate minerals as markers of acidic conditions during the Permian–Triassic transition in the Iberian Ranges". En: Nakrem and Mørk (Edts.). Abstracts and proceedings of the Geological Society of Norway. 4, pp. 1. 2015. ISBN 978-82-8347-000-0

11 Title of the work: Environmental implications of mineralogical and geochemical features in lower-middle triassic rocks and potential analogies with early stages of evolution in mars

Name of the conference: 21st General Meeting of the International Mineralogical Association

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Gauteng, South African Republic

Date of event: 01/09/2014

End date: 05/09/2014

Organising entity: International Mineralogical Association

City organizing entity: Gauteng (Sudáfrica),
Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Belén Galán Abellán; J. Martínez Frías; José Fernández Barrenechea; José López Gómez; Raúl De la Horra; Violeta Borrueal Abadía; Francisco J. Luque. "Environmental implications of mineralogical and geochemical features in lower-middle triassic rocks and potential analogies with early stages of evolution in mars". En: 1st General Meeting of the International Mineralogical Association abstracts book, D. Chetty, L. Andrews, J. Villiers, R. Dixon, P. Nex, W.U. Reimold, J. Richards, B. Smith, C. Smith, S. Verryin, F. Viljoen (Eds). pp. 387 - 388. 2014. ISBN 978-0-620-60082-8

12 Title of the work: The Permian in the SE Iberian Ranges, Spain.

Name of the conference: CPC-2014. International Field Meeting on Carboniferous and Permian Non-Marine – Marine Correlation. 2014, Freiberg (Alemania)

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Freiberg, Germany

Date of event: 21/07/2014

End date: 27/07/2014

Organising entity: Technische Universität Bergakademie Freiberg and Institut für Geologie

City organizing entity: Freiberg, Germany

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Raúl De la Horra Del Barco; Violeta Borrueal Abadía; Belén Galán Abellán; Alfredo Arche; José López Gómez; José Fernández Barrenechea. "The Permian in the SE Iberian Ranges, Spain.". En: CPC-2014. International Field Meeting on Carboniferous and Permian Non-Marine – Marine Correlation. Abstract Volume. Olaf Elicki, Jörg W. Schneider, Frederik Spindler (Eds). 11-12.. 2014. ISSN 1433-1284

13 Title of the work: Tecto-sedimentary characteristics of the break-up of Pangea in the Iberian Basin

Name of the conference: Gondwana 15

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 14/07/2014

End date: 18/07/2014

Organising entity: International Association for Gondwana Research

With external admission assessment committee: Yes

Raúl De la Horra; Violeta Borrueal Abadía; Belén Galán Abellán; María José Escudero; Alfredo Arche; José Fernández Barrenechea; José López Gómez; Marceliano Lago; Javier Martín Chivelet.

14 Title of the work: Rock magnetic properties of sediments from Lake Sanabria and its catchment (NW Spain): paleoenvironmental implications

Name of the conference: AGU Fall Meeting

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: San Francisco, United States of America

Date of event: 09/12/2013

End date: 13/12/2013

Organising entity: AGU

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific book or monograph

JC Larrasoña; V Borrue!; M Gómez-Paccard; M Rico; B Valero-Garces; A Moreno-Caballud; R Soto. "Rock magnetic properties of sediments from Lake Sanabria and its catchment (NW Spain): paleoenvironmental implications". En: AGU Fall Meeting Abstracts. 2013. Available on-line at: <<http://abstractsearch.agu.org/meetings/2013/FM/GP53A-1118.html>>.

Paper ID: GP53A-1118

15 Title of the work: Palaeogeographical significance in the Western Tethys of the Early Triassic fluvial-aeolian interaction in the Catalan Ranges, NE Spain

Name of the conference: 1st International Congress on Stratigraphy

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Lisboa, Portugal

Date of event: 01/07/2013

End date: 07/07/2013

Organising entity: Faculty of Science and Technology. University of Lisbon

City organizing entity: Lisboa, Portugal

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Ana Belén Galán Abellán; Raúl De la Horra; José López Gómez; José Fernández Barrenechea; Mariano Marzo; Alfredo Arche; Violeta Borrue!. "Palaeogeographical significance in the Western Tethys of the Early Triassic fluvial-aeolian interaction in the Catalan Ranges, NE Spain". En: Ciências da Terra. Volume Especial VII. STRATI 2013. 7, pp. 183 - 184. 2013.

16 Title of the work: The Permian -Triassic rocks of the eastern Iberian Ranges: A general approach in the context of the first stages of the break-up of Pangea

Name of the conference: 10th International Field Workshop of the Pan- European Correlation of the Triassic

Type of event: Conference

Geographical area: Non EU International

Type of participation: Organizational - Scientific and organizing committee

Corresponding author: No

City of event: Cuenca, Spain

Date of event: 2013

Organising entity: Geoscience Institute (CSIC-UCM)

R. De la Horra; J. López-Gómez; A. Arche; M.J. Escudero Mozo; A.B. Galán-Abellán; J.F. Barrenechea; J. Martín-Chivelet; V. Borrue!-Abadía. "The Permian -Triassic rocks of the eastern Iberian Ranges: A general approach in the context of the first stages of the break-up of Pangea".

17 Title of the work: Propiedades magnéticas de sedimentos del Lago de Sanabria y su área fuente (NO España): implicaciones paleoambientales

Name of the conference: VIII Congreso Geológico de España

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Oviedo, Spain

Date of event: 17/07/2012

End date: 19/07/2012

Organising entity: Sociedad Geológica España. Universidad de Oviedo, Departamento Geología.



City organizing entity: Oviedo, Spain

Violeta Borrueal; Juan Cruz Larrasoña; Miriam Gomez Paccard; Maite Rico; Blas Valero Garcés; Ana Moreno; Ruth Soto.

18 Title of the work: Aplicación de técnicas paleomagnéticas en la datación e identificación de la variabilidad climática Holocena en sedimentos lacustres de la Península Ibérica: una declaración de intenciones.

Name of the conference: Congreso MAGIBER VI

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Puigcerdà, Spain

Date of event: 2010

Organising entity: Comisión de Paleomagnetismo de la Sociedad Geológica de España.

Violeta Borrueal; Juan Cruz Larrasoña; Miriam Gómez Paccard; Maite Rico; Blas Valero Garcés; Ana Moreno; Ruth Soto.

Other dissemination activities

Title of the work: Cuando Cuenca estaba en el Ecuador

Name of the event: Geología

Type of event: workshop for all audiences

City of event: Cuenca, Spain

Date of event: 09/05/2015

Organising entity: Universidad Complutense de Madrid and Instituto de Geociencias (CSIC-UCM)

R. De la Horra Del Barco; A.B. Galán Abellán; M.J. Escudero Mozo; V. Borrueal Abadía; M.B. Muñoz García; V. Santos García; L. Bustamante Soriano; J. López-Gómez.

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: The Permian-Triassic rocks of the Eastern Iberian Ranges: A general approach in the context of the first stages of the break-up of Pangea

Type of activity: Field workshop

Geographical area: Non EU International

Convening entity: Instituto de Geociencias, IGEO (CSIC-UCM)-Universidad Complutense de Madrid

Type of entity: Public Research Body

Type of participation: Organiser

Start-End date: 23/09/2013 - 27/03/2014

Duration: 5 days



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** University of Leeds **Type of entity:** University
Faculty, institute or centre: School of Earth and Environment
City of entity: Leeds, United Kingdom
Start-End date: 23/06/2015 - 22/09/2015 **Duration:** 92 days
Goals of the stay: Doctorate
Provable tasks: Secuential extractions of phosphorus and iron
- 2** **Entity:** Naturmuseon Südtirol **Type of entity:** R&D Centre
City of entity: Bolzano, Provincia Autonoma Bolzano/Bozen, Italy
Start-End date: 08/01/2014 - 09/04/2014 **Duration:** 92 days
Goals of the stay: Doctorate
Provable tasks: Taxonomy and taphonomy of macroflora associations of the Iberian Ranges (Spain). Cuticles analyses of Permian and Triassic flora.
- 3** **Entity:** Universidad de Castilla-La Mancha **Type of entity:** University
City of entity: Toledo, Castile-La Mancha, Spain
Start-End date: 04/11/2013 - 06/11/2013
Goals of the stay: Doctorate
Provable tasks: Analysis of major, minor and trace elements on whole-rock samples.
- 4** **Entity:** Instituto Geológico y Minero de España. **Type of entity:** Public Research Body
Unidad de Zaragoza
City of entity: Zaragoza, Spain
Start-End date: 01/07/2010 - 30/09/2010 **Duration:** 3 months
Goals of the stay: University practices
Provable tasks: Environmental paleomagnetism of lacustrine sediments
- 5** **Entity:** Instituto de Ciencias de la Tierra Jaume **Type of entity:** State agency
Almera
Start date: 26/07/2010 **Duration:** 19 days
Goals of the stay: Doctorate and Guest
Provable tasks: Environmental paleomagnetism. Magnetic susceptibility, NRM, IRM, HRM. Magnetostratigraphy.

Obtained grants and scholarships

- 1** **Name of the grant:** Formación de personal investigador (FPI). BES-2012-061959
Aims: Pre-doctoral
Awarding entity: Ministerio de Economía y Competitividad
Conferral date: 01/03/2012
End date: 28/02/2017
Entity where activity was carried out: Instituto de Geociencias (CSIC-UCM)



- 2** **Name of the grant:** Scholarships for predoctoral mobility for short stays in Spanish and foreign R & D centers. EEBB-I-15-10376
Aims: Pre-doctoral
Awarding entity: Ministerio de Economía y Competitividad
Conferral date: 23/06/2015 **Duration:** 92 days
End date: 22/09/2015
Entity where activity was carried out: School Earth and Environment, University of Leeds (Leeds, UK)
- 3** **Name of the grant:** Scholarships for predoctoral mobility for short stays in Spanish and foreign R & D centers. EEBB-I-14-08190
Aims: Pre-doctoral
Awarding entity: Ministerio de Economía y Competitividad
Conferral date: 09/01/2014 **Duration:** 92 days
End date: 10/04/2014
Entity where activity was carried out: Natur Museon Südtirol

Prizes, mentions and distinctions

Description: Special Doctorate Award
Awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Conferral date: 18/09/2018

Summary of other achievements

- 1** **Description of the achievement:** Course: Science and Past: Materials Dating
Accrediting entity: Universidad de Zaragoza **Type of entity:** University
Conferral date: 14/11/2011
- 2** **Description of the achievement:** Course: La Geología de los Pirineos: un laboratorio natural para la investigación geológica
Accrediting entity: Universidad de Zaragoza **Type of entity:** University
Conferral date: 06/07/2009