

Currículum vitae

Name: M. Carmen Ruiz Delgado

Date: 15-09-2017

PERSONAL DATA

Family name: Ruiz Delgado Forename: M^a del Carmen
ID/Passport no: 77469096-J Date of birth : May 7, 1977 Gender: Female
Nationality: Spain
Profession: Associate Professor, Department of Physical Chemistry, Faculty of Sciences, University of Málaga, 29071 Campus de Teatinos
Researcher ID F-7038-2013
Código Orcid 0000-0001-8180-7153

ACADEMIC BACKGROUND

Bachelor	Centre	Date
Chemical Engineering	University of Málaga	04/04/2001

Ph.D. Date	Centre	Thesis Supervisor
Doctor	University of Málaga	Prof. Dr. Juan Teodomiro Navarrete Prof. Dr. Víctor Hernández Jolín Prof. Dr. Juan Casado Cordon

PAST SCIENTIFIC EXPERIENCE (*)

Position	R&D Centre	Institution (**)	Start date	End date
Post-Bachelor Research Fellow (MEC)	Department of Chemical Engineering	University of Málaga	01/09/1999	31/08/2000
Research Fellow (FQM-0159)	Department of Physical Chemistry	University of Málaga	01/05/2002	31/12/2002
FPU Research Fellow (MEC)	Department of Physical Chemistry	University of Málaga	01/01/2003	31/12/2006
Research Associate	Department of Physical Chemistry	University of Málaga	12/02/2007	23/03/2007
Visiting Postdoctoral Scholar (UMA Research Fellow)	Institute of Materials Science of Aragón	University of Zaragoza (Spain)	15/01/2007	23/03/2007
Postdoctoral Fellow (MEC/Fulbright)	School of Chemistry and Biochemistry	Georgia Institute of Technology (USA)	01/04/2007	31/03/2009
Postdoctoral Research Fellow	School of Chemistry and Biochemistry	Georgia Institute of Technology (USA)	01/04/2009	31/03/2010
Postdoctoral Research Fellow	Department of Physical Chemistry	University of Málaga	08/04/2010	18/11/2010

Ramón y Cajal Researcher	Department of Physical Chemistry	University of Málaga	19/11/2010	26/02/2017-
Associate Professor	Department of Physical Chemistry	University of Málaga	27/02/2017	-

PARTICIPATION IN RESEARCH PROJECTS

PROJECT TITLE: Materials for Molecular Electronics and Photonics: Fabrication and Characterization of Organic Field-Effect Transistors (OFETs)

FINANCIAL ENTITY: Proyecto de Investigación de Excelencia (Junta de Andalucía). P06-FQM-0478

LENGHT FROM: 01/02/2010 TO: 31/01/2014

PRINCIPAL INVESTIGATOR: Prof. Dr. Juan Teodomiro López Navarrete

Total amount: 207.923,68 euros

PROJECT TITLE: Estudio Espectroscópico y Teórico de Materiales Orgánicos para Electrónica Orgánica

FINANCIAL ENTITY: Proyecto del Plan Nacional de I+D+I (MCINN) CTQ2012-33733

LENGHT FROM: 01/01/2013 TO: 31/12/2015

PRINCIPAL INVESTIGATOR: Prof. Dr. Juan Teodomiro López Navarrete

Total amount: 284.310 euros

PROJECT TITLE: Organic Optoelectronic Interfaces (IRG-2)

FINANCIAL ENTITY: University of Minnesota, Materials Research Science and Engineering Center (MRSEC) Program of the National Science Foundation (NSF) under Award DMR-0212302 and DMR-0819885.

LENGHT FROM: 01/04/2007 TO: 31/03/2010

PRINCIPAL INVESTIGATOR: Prof. Dr. C. D. Frisbie and Prof. Dr. Jean-Luc Brédas.

PROJECT TITLE: Ramon y Cajal Research Contract (RYC-2010-07186)

FINANCIAL ENTITY: Ministerio de Ciencia e Innovación

LENGHT FROM: 19/11/2010 TO: 18/11/2015

Funding: 192.480,00 euros

PRINCIPAL INVESTIGATOR: Dr. María del Carmen Ruiz Delgado

RELEVANT PUBLICATIONS

1. Mobility versus Alignment of a Semiconducting *pi*-Extended Discotic Liquid-Crystalline Triindole

Constanza Ruiz, Upendra K. Pandey; Roberto Termine; Eva Garcia-Frutos, Guzmán Lopez-Espejo, Rocio Ponce Ortiz, Rocio, Wei Huang, Tobin J. Marks, Antonio Facchetti, M. Carmen Ruiz Delgado, Atilio Golemme, Berta Gomez-Lor
ACS APPLIED MATERIALS & INTERFACES, 8, 26964 (2016)

2. The Raman fingerprint of cyclic conjugation: the case of the stabilization of cations and dications in cycloparaphenylenes

Miriam Peña Alvarez, M. Carmen Ruiz Delgado, Mercedes Taravillo, Valentin G. Baonza; Juan T. López Navarrete ; Paul Evans, Ramesh Jasti, Shigeru Yamago, Miklos Kertesz, Juan Casado
CHEMICAL SCIENCE, 7, 3494 (2016)

3. Triindole-Bridge-Triindole Dimers as Models for Two Dimensional Microporous Polymers

Constanza Ruiz; Juan T. López Navarrete; M. Carmen Ruiz Delgado, Berta Gomez-Lor
ORGANIC LETTERS, 17, 2258 (2015)

4. Multistep *pi*-Dimerization of Tetrakis(*n*-decyl)-heptathienoacene Radical Cations: A Combined Experimental and Theoretical Study

Cristina Capel Ferrón; Marçal Capdevila-Cortada; Russell Balster; František Hartl; Weijun Niu; Mingqian He; Juan J. Novoa; Juan T. López Navarrete; Víctor Hernández; M. Carmen Ruiz Delgado
Chemistry A European Journal, 20, 10351 (2014)

5. Interplay of *alpha, alpha* versus *alpha, beta* conjugation into the Excited States and Charged Defects of Branched Oligothiophenes as Models for Dendrimeric Materials

Rafael C. González-Cano; G. Saini; J. Jacob; Juan T. López Navarrete; Juan Casado; M. Carmen Ruiz Delgado
Chemistry A European Journal 19, 17165 (2013)

6. *alpha*-Oligofurans show a sizeable extent of *alpha*-conjugation as probed by Raman spectroscopy

Cristina Capel Ferrón; M. Carmen Ruiz Delgado; Ori Gidron; Sagar Sharma; Dennis Sheberla; Yana Sheynin; Michael Bendikov; Juan T. López Navarrete; Víctor Hernández
Chemical Communications, Chem. Commun. 48, 6732–6734 (2012)

7. Delocalization-to-Localization Charge Transition in Diferrocenyl-Oligothiophene-Vinylene Molecular Wires as a Function of the Size by Raman Spectroscopy

Sandra Rodríguez González; M. Carmen Ruiz Delgado; Rubén Caballero; Pilar De la Cruz; Fernando Langa; Juan T. López Navarrete; Juan Casado
Journal of American Chemical Society, 134, 5675–5681 (2012)

8. Substituent and counterion effects on the formation of *pi*-dimer dications of end-capped heptathienoacenes

C. Capel Ferrón; M. C. Ruiz Delgado; V. Hernández; J. T. López Navarrete; B. Vercelli; G. Zotti; M. Capdevila Cortada; J. J. Novoa; W. Niu; M. He; F. Hartl ; J. T. López Navarrete
Chemical Communications, 2011, 47, 12622–12624 (2011)

9. Oligothiophene Tetracyanobutadienes: Alternative Donor-Acceptor Architectures for Molecular and Polymeric Materials

Ted M. Pappenfus; Deborah K. Schneiderman; Juan Casado; Juan T. López Navarrete; M. Carmen Ruiz Delgado; Gianni Zotti; Barbara Vercelli; Matthew D. Lovander; Lindsay M. Hinkle; Jon N. Bohnsack; Kent R. Mann

Chemistry of Materials 23, 823-831 (2011)

10. Hexaazatriphenylene (HAT) versus tri-HAT: The Bigger the Better?

R. Juárez; M. Moreno Oliva; M. Ramos; J. L. Segura; C. Alemán; F. Rodríguez-Ropero; D. Curcó; F. Montilla; V. Coropceanu; J.L. Brédas; Y. Qi; A. Kahn; M. C. Ruiz Delgado; J. Casado; J. T. López Navarrete

Chemistry A European Journal 17, 10312 – 10322 (2011)