
PERSONAL INFORMATION

Family name, First name: Ruiz Carretero, Amparo

ORCID: 0000-0002-7336-2868

Date of birth: 02/02/1982

Nationality: Spanish

URL for web site:

<https://www.ics-cnrs.unistra.fr/member-531-Ruiz%20Carretero%20Amparo.html>



EDUCATION

- 2021 Habilitation to direct research (HDR): "Total landscape of hydrogen-bonding and supramolecular chirality in organic electronics". University of Strasbourg, France
- 2005-2009 PhD "Sustainable synthesis of triazine derivatives and analogues with applications in Supramolecular Chemistry". University of Castilla – La Mancha, Spain. Supervised by Prof. Antonio de la Hoz and Prof. Ana M. Sánchez-Migallón
- 2000-2005 Chemistry degree. Graduated as valedictorian

CURRENT POSITION

2016 –Present CNRS Researcher, Institute Charles Sadron, Strasbourg, France

PREVIOUS POSITIONS

- 2013–2015 Postdoctoral researcher, Marie Curie IEF. Institut des Science et d'Ingénieries Supramoléculaires (ISIS), University of Strasbourg, France. Supervisor: Prof. Luisa De Cola
- 2010–2012 Postdoctoral researcher, Castilla – La Mancha Fellowship. Northwestern University, Chicago (IL, USA). Supervisor: Prof. Samuel I. Stupp
- 2009-2010 Postdoctoral researcher, Technical University of Eindhoven (The Netherlands). Supervisor: Prof. Albert Schenning
- 2008 Visiting scholar, Technical University of Eindhoven (The Netherlands). Supervisors: Prof. E. W. Meijer and Prof. Albert Schenning
- 2007 Visiting scholar, Technical University of Eindhoven (The Netherlands). Supervisors: Prof. E. W. Meijer and Prof. Albert Schenning
- 2005 Internship at Castilla – La Mancha University (Spain). Supervised by Prof. Ana M. Sánchez-Migallón

FIVE SELECTED PUBLICATIONS

- 1) Hydrogen-bonded organic semiconductors with long charge carrier lifetime. *J. Phys. Chem. C.* **2022**, 126, 10932-10939. N. R. Avila-Rovelo, G. Martinez, W. Matsuda, S. Sinn, P. Lévêque, D. Schwaller, P. Mésini, S. Seki, A. Ruiz-Carretero*.
- 2) Chirality inversion in hydrogen-bonded rhodanine-oligothiophene derivatives by solvent and temperature. A. M. Garcia, A. Ruiz-Carretero*. *ChemCommun*, **2022**, 58, 529-532. **Emerging Investigators Issue 2022**.
- 3) Impact of chirality on hydrogen-bonded supramolecular assemblies and photoconductivity of diketopyrrolopyrrole derivatives. S. Militzer, N. Nishimura, R. Ávila-Rovelo, W. Matsuda, D. Schwaller, P. Mésini, S. Seki, A. Ruiz-Carretero*. *Chem. Eur. J.* **2020**, 26, 9998-10004. **Young Chemists Issue 2020**.
- 4) Hydrogen-bonded diketopyrrolopyrrole derivatives for energy-related applications. A. Ruiz Carretero*, N. R. Ávila-Rovelo, S. Militzer, P. Mésini. *J. Mater. Chem. A.* **2019**, 7, 23451. **Emerging Investigators Issue 2019**.
- 5) Improving solar cell efficiency through hydrogen bonding: a method for tuning active layer morphology. T. Aytun, L. Barreda, A. Ruiz-Carretero, J. A. Lehrman, S. I. Stupp. *Chem. Mater.* **2015**, 27, 1201.

INVITED TALKS

- 15 invited talks (GFP Colloque National 2023, Wilhelm und Else Heraeus-Stiftung CISS seminar, Bad-Honnef, Germany, 2022; Journées de la chiralité André Collet, 2022 Biarritz; Journées de Chimie Supramoléculaire de la SCF, Lyon, France, 2022; 2nd International Conference on Noncovalent Interactions, ICNI, Strasbourg, France, 2022; Japan gateway program, Kyoto University, Japan, 2022; Chiral Induced Spin Selectivity (CISS) seminars of the Weizmann Institute, Israel, 2021; Fall ACS Meeting, Structure to function in supramolecular polymers and materials symposium, 2021; International Chemical Congress of Pacific Basin Societies, 2021; Spring ACS Meeting, Structure to function in supramolecular polymers and materials, 2020; Falling Walls Lab finalist, Berlin, Germany 2015 and others).
- 1 keynote invitation (SupraParis 2024)
- More than 15 contributions in conferences (ElecMol 2014 et 2018, GRC Supramolecular Chemistry and Self-Assembly 2015 et 2019, International conference of Green Chemistry 2009, 21st International Symposium of Photophysics and Photochemistry of Coordination Compounds, EMRS 2017, SPIC 2019)

FELLOWSHIPS AND AWARDS

2020	University of Strasbourg Institute for Advanced Science (USIAS) fellowship, France.
2020	7 th Young European Scientists (YES) Workshop, European Polymer Federation.
2016–2020	Scientific excellence prime CNRS
2013-2015	Marie Curie IEF postdoctoral fellowship
2010-2012	Postdoctoral fellowship Junta de Comunidades de Castilla – La Mancha (Spain)
2005-2009	Predocctoral national fellowship, Ministry of Science and Education (Spain)
2005	Valedictorian (graduated with honors)

SUPERVISION AT THE CNRS

Postdocs (4) Ana M. Garcia (2020-2021), Joshua Humphreys (2021-2022), Kyeong-Im Hong (2022-present), Christian Carmona Vargas (2022-present). PhDs (5) Swann Militzer (2016-2019), Nelson Ricardo Ávila-Rovelo (2018-2021); Gabriel Martínez Álvarez (2020-2023), Imrane Id-Boubrik (2021-2024); Victor Vázquez Villar (2021, visiting student) Master students (10)

FUNDING AS PRINCIPAL INVESTIGATOR

2022: IdEx Exploratoire (CHIROTRONICS) (30 k€); 2021: Projet doctorale Grand Est (50 k€); 2020: Projet de l'Agence National de la Recherche Jeune Chercheuse (ANR JCJC) (237 k€). (TOTALBOND); 2020: PhD funds from the Complex Systems Chemistry Graduate School (Strasbourg) (120 k€). 2020: International Emerging Actions (IEA, CNRS). (14 k€); 2020: University of Strasbourg Institute for Advanced Science (USIAS) fellow (167 k€). 2018: LabEx CSC (Complex Systems Chemistry) Emerging Investigator (120 k€); 2016: IdEx, Investissement (30 k€); 2016: PEPS Cellule Energie CNRS (15 k€).

INSTITUTIONAL RESPONSIBILITIES

2017–present Elected member of the laboratory council, Institute Charles Sadron, Strasbourg, France.
2017–present Member of communication commission, Institute Charles Sadron, Strasbourg, France
2021–present Executive committee member of the Cluster of Excellence (ITI) “Hierarchical and Functional Materials,” University of Strasbourg and University Haut Alsace, France.
2021–present Member of the equality commission (EgalITI) of the Cluster of Excellence “Hierarchical and Functional Materials” University of Strasbourg and University Haut Alsace, France.
2019-present Co-organizer of the IUPAC Global Women Breakfast of Institute Charles Sadron
2022-present Member of the jury of international relations of the Faculty of Physics and Engineering
2022 Member of the PhD grants jury of the doctoral school of physics and physical-chemistry
2022- Chief d'équipe SYCOMMOR (SYstèmes COMplexes Moléculaires et Macromoléculaires ORganisés)