

CV

PERSONAL INFORMATION

Family name, First name: **Francisco Juliá-Hernández**

Place and date of birth: Cieza (Murcia). Spain. 11th January 1984.

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ACADEMIC CAREER

- 2018/11– **Assistant Professor in Synthetic Organic Chemistry.** Department of Organic Chemistry. Stockholm University (Sweden).
- 2014/07–2018/08 **Postdoctoral Research Fellow (COFUND).** Institute of Chemical Research of Catalonia (ICIQ, Spain).
Supervisor: Prof Ruben Martin.
- 2012/05–2014/05 **Postdoctoral Research Assistant.** Queen Mary University of London (UK).
Supervisor: Prof Igor Larrosa.
- 2007/09–2012/03 **PhD in Chemistry.** University of Murcia (Spain).
Supervisors: Prof Jose Vicente and Prof Aurelia Arcas.
- 2007/09–2008/09 **MSc in Molecular Chemistry.** University of Murcia (Spain).
Supervisors: Prof Jose Vicente and Prof Aurelia Arcas by the University of
- 2002/09–2007/07 **BSc in Chemistry.** University of Murcia (Spain).

PUBLICATIONS

- (21) *Site-Selective, Remote C(sp³)-H Carboxylation Enabled by the Merger of Photoredox and Nickel Catalysis*
B. Sahoo, P. Bellotti, **F. Juliá-Hernández**, Q.-Y. Meng, S. Crespi, B. König,* R. Martin.*
Chem. Eur. J. **2019**, 25, 9001-9005.
- (20) *Transition Metal-Catalyzed Carboxylation Reactions with Carbon Dioxide.*
A. Tortajada, **F. Juliá-Hernández**, M. Borjesson, T. Moragas, R. Martin.*
Angew. Chem. Int. Ed. **2018**, doi: 10.1002/anie.201803186.
- (19) *Walking Metals for Remote Functionalization.*
F. Juliá-Hernández,† H. Sommer,† R. Martin*, I. Marek.*
† Equal contribution
ACS Cent. Sci. **2018**, 4, 153-165.

- (18) *Kinetics and Mechanistic Insights into the Acetate-Assisted Dimerization of Terminal Alkynes under Ruthenium and Acid Promoted (RAP) Catalysis.*
R. Salvio, **F. Juliá-Hernández**, L. Pisciotanni, R. Mendoza-Meroño, S. García-Granda, M. Bassetti.*
Organometallics **2017**, 36, 3830-3840.
- (17) *Site-Selective Catalytic Carboxylation of Unsaturated Hydrocarbons with CO₂ and Water.*
F. Juliá-Hernández,† T. Moragas,† M. Gaydou,† R. Martín.*
† Equal contribution
J. Am. Chem. Soc. **2017**, 139, 12161-12164.
(Among the most read JACS articles in September 2017)
- (16) *Remote Carboxylation of Halogenated Aliphatic Hydrocarbons with CO₂.*
F. Juliá-Hernández, T. Moragas, J. Cornella, R. Martín.*
Nature **2017**, 545, 84-89.
(Highlighted in [C&EN](#), [Chemistry World](#), [Chemistry Views](#) and [Nature News and Views](#))
- (15) *Visible Light-Promoted Atom Transfer Radical Cyclization of Unactivated Alkyl Iodides.*
Y. Shen, J. Cornella, **F. Juliá-Hernández**,* R. Martín.*
ACS Catal. **2017**, 7, 409-412.
(* F.J.-H. and R.M. as corresponding authors. Among the most accessed articles in January 2017)
- (14) *Ni- and Fe-catalyzed Carboxylation of Unsaturated Hydrocarbons with CO₂.*
F. Juliá-Hernández, M. Gaydou, E. Serrano, M. van Gemmeren, R. Martín.*
Top. Curr. Chem. (Z) **2016**, 374, 45.
- (13) *Pd-catalyzed C(sp³)-H Functionalization/Carbenoid Insertion: Quaternary Carbon Stereocenters via Multiple C–C Bond-Formation.*
A. Gutiérrez-Bonet, **F. Juliá-Hernández**, B. de Luis, R. Martín.*
J. Am. Chem. Soc. **2016**, 138, 6384-6387.
(Among the most read JACS articles in May 2016)
- (12) *Ru-Catalyzed C–H Arylation of Fluoroarenes with Aryl Halides.*
M. Simonetti, G. J. P. Perry, X. C. Cambeiro, **F. Juliá-Hernández**, J. N. Arokianathar, I. Larrosa.*
J. Am. Chem. Soc. **2016**, 138, 3596-3606.
- (11) *Room Temperature Direct β -Arylation of Thiophenes and Benzo[b]thiophenes and Kinetic Evidence for a Heck-type Pathway.*
C. Colletto, S. Islam, **F. Juliá-Hernández**, I. Larrosa.*
J. Am. Chem. Soc. **2016**, 138, 1677-1683.
- (10) *Nickel-catalyzed Chemo-, Regio- and Diastereoselective Bond Formation through Proximal C–C Cleavage of Benzocyclobutenones.*
F. Juliá-Hernández, A. Ziadi, A. Nishimura, R. Martín.*
Angew. Chem. Int. Ed. **2015**, 54, 9537-9541.
- (9) *Pd(II)-catalyzed deprotection of acetals and ketals containing acid sensitive functional groups.*
F. Juliá-Hernández, A. Arcas, J. Vicente.*
Tetrahedron Lett. **2014**, 55, 1141-1144.

- (8) *Metalation dictates remote regioselectivity: Ruthenium-catalyzed functionalization of meta aryl C–H bonds.*
F. Juliá-Hernández, M. Simonetti, I. Larrosa.*
Angew. Chem. Int. Ed. **2013**, 52, 11458-11460.
- (7) *Synthesis and hydrolysis of cationic Palladium(II) 2,6-diacetylpyridine dimethyl ketal complexes. Cyclopalladation of 2,6-diacetylpyridine. Palladium-catalyzed synthesis of a 1,5-benzodiazepine.*
F. Juliá-Hernández, A. Arcas, D. Bautista, J. Vicente.*
Organometallics **2012**, 31, 3736-3744.
- (6) *Providing support in favour of the existence of a Pd(II)/Pd(IV) catalytic cycle in a Heck-type reaction.*
F. Juliá-Hernández, A. Arcas, J. Vicente.*
Chem. Eur. J. **2012**, 18, 7780-7786.
- (5) *Synthesis of a Palladium(IV) complex by oxidative addition of an aryl halide to Palladium(II) and its use as precatalyst in a C–C coupling reaction.*
 J. Vicente,* A. Arcas, **F. Juliá-Hernández**, D. Bautista.
Angew. Chem. Int. Ed. **2011**, 50, 6896-6899.
 (Selected as Hot Paper in Angewandte Chemie)
- (4) *Synthesis, isolation and characterization of a triiodo organometallic Palladium(IV) complex. Quantitative and regioselective synthesis of two C–I reductive elimination products.*
 J. Vicente,* A. Arcas, **F. Juliá-Hernández**, D. Bautista.
Inorg. Chem. **2011**, 50, 5339-5341.
- (3) *Quantitative synthesis and full characterization of the first isolated and stable pincer Palladium(IV) complexes. Quantitative and regioselective synthesis of the C–X (X = Cl, Br) reductive elimination products.* J. Vicente,* A. Arcas, **F. Juliá-Hernández**, D. Bautista.
Chem. Commun. **2010**, 46, 7253-7255.
- (2) *Organometallic complexes of Palladium(II) derived from 2,6-diacetylpyridine dimethylketal.*
 J. Vicente,* A. Arcas, **F. Juliá-Hernández**, D. Bautista, P. G. Jones.
Organometallics **2010**, 29, 3066-3076.
- (1) *Synthesis of bis(2,6-dinitroaryl)palladium(II) and mono(2,6-dinitroaryl)platinum(II) complexes. A new example of the transphobia effect and of transmetallation from Pt to Hg.*
 J. Vicente,* A. Arcas, M. D. Gálvez-López, **F. Juliá-Hernández**, D. Bautista, P. G. Jones.
Organometallics **2008**, 27, 1582-1590.

PATENTS

- (2) *Catalytic Carboxylation of Activated Alkanes and/or Olefins.*
F. Juliá-Hernández, J. Cornella, R. Martín. EP16382336 (2016).
- (1) *Organometallic Pd(II) complex and its use in the hydrolysis of ketals and acetals.*
 J. Vicente, A. Arcas, **F. Juliá-Hernández**. ES20100031021 20100702.

INVITED TALKS

(2) *Remote Carboxylation of Halogenated Aliphatic Hydrocarbons with Carbon Dioxide*.
XV Symposium Young Researchers RSEQ/JIQ-Merck. Toledo (Spain). November **2018**.
Invited plenary speaker.

(1) *Catalytic Carboxylation of Aliphatic Hydrocarbons with Carbon Dioxide*.
Department of Organic Chemistry Seminar Series. Stockholm University. June **2018**.

FELLOWSHIPS and AWARDS

<u>2020</u>	2020 Thieme Chemistry Journals Award.
<u>2019</u>	Swedish Research Council (Vetenskapsrådet) Starting Research Grant.
<u>2018</u>	Assistant Professorship at Stockholm University (Sweden).
<u>2018</u>	“X SusChem Young Chemists Awards” in the category PostDoc.
<u>2014</u>	COFUND-IPMP (European Research Council–Marie Curie Actions).
<u>2014</u>	Best PhD Thesis in Chemistry Award. University of Murcia (Spain).
<u>2012</u>	Finalist in the “IV SusChem Young Chemists Awards” in the category PreDoc.
<u>2009</u>	Travel Scholarship for visiting foreign research institutions. Fundación Séneca-Región de Murcia (Spain).
<u>2007</u>	Research Scholarship. Fundación Séneca-Región de Murcia (Spain).
<u>2007</u>	Research Scholarship. University of Murcia (Spain).