

Curriculum vitae

Rubén Martín

February 2018

Name: Rubén Martín

Born: 16th December 1976; Barcelona (Spain)

Current Position *Group Leader (since Sept. 2008)*
ICREA Professor (since October 2013)

Address: Institute of Chemical Research of Catalonia (ICIQ)
Av. Països Catalans, 16
43007, Tarragona (Spain)
Office: +34-977-920248; FAX: +34-977-920823
rmartinromo@iciq.es

Research ID: www.researcherid.com/rid/M-2905-2014

Previous positions:

Massachusetts Institute of Technology (MIT), Cambridge, MA (USA) 05/2005-08/2008

M.E.C-Fulbright Postdoctoral Fellow; Advisor: Prof. Stephen L. Buchwald

Title: "Cu-catalyzed C-N and Pd-catalyzed C-C Bond-forming Reactions"

Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr (Germany) 01/2004-04/2005

Alexander von Humboldt Postdoctoral Fellow; Advisor: Prof. Alois Fürstner

Title: "Low-valent Iron Complexes in Cycloadditions and Cross-coupling Reactions"

Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr (Germany) 01/2003-04/2003

Visiting Fellow; Advisor: Prof. Alois Fürstner

Title: "Iron-catalyzed Reactions of Vinyl Epoxides and Grignard Reagents"

University of Barcelona, Barcelona (Spain) 01/1999-11/2003

Ph.D Research Fellow; Advisor: Prof. Antoni Riera Escalé

Title: "Enantioselective Total Synthesis of Glycosidases Inhibitors" (*Summa Cum Laude*)

Awards:

- 2017 Genentech Lectureship in Organic Chemistry
- 2017 Bristol-Myers-Squibb Lectureship
- 2017 Pharmaron Lectureship
- 2017 Liebig-Lectureship Award
- 2017 OMCOS Award
- 2017 Marcial Moreno Lectureship Award
- 2015 RSEQ Excellent Research Award
- 2013 ICREA Research Award
- 2011 ERC Starting Grant Award
- 2011 Eli Lilly Young Research Investigator Award
- 2011 Thieme Chemistry Journal Award
- 2010 Sigma Aldrich RSEQ Young Research Investigator Award
- 2008 Ramon y Cajal Award
- 2005 MEC/Fulbright Postdoctoral Fellow
- 2004 Alexander von Humboldt Postdoctoral Fellow

Teaching Experience:

- | | |
|-----------|---|
| 2000-2002 | <i>"Organic Synthesis"</i> ; 2nd year Chemistry Degree; University of Barcelona.
Credits given: 1.5 (15h) |
| 2009-2013 | <i>"Stereoselective and Asymmetric Synthesis"</i> ; Master Synthesis and Catalysis; Universitat Rovira i Virgili. Credits given: 3 (30 h) |
| 2013-2018 | <i>"Methods in Synthesis"</i> ; Master Synthesis and Catalysis; Universitat Rovira i Virgili.
Credits given: 3 (30 h) |

Organization of scientific meetings:

- | | |
|------|------------------|
| 2015 | Co-organization. |
|------|------------------|

Organometallic chemistry directed towards organic synthesis – OMCOS18

Sitges (Barcelona); Participants: 820

Main speakers: Bergman (Berkeley), Schwarz (Berlin), Sanford (Michigan), Hashmi (Heidelberg), Chatani (Osaka), Marer (Würzburg), Chang (KAIST), Zhu (EPFL), Szabó (Stockholm).

2014 *ICIQ 10th anniversary symposium*

Tarragona (Spain); Participants: 237

Main speakers: Buchwald (MIT), Baran (Scripps), Yu (Scripps), MacMillan (Princeton), Carell (Münich), Rebek (Scripps), Pfaltz (Basel), Stang (Utah), Smith (Upenn)

2013 *ICIQ-UNICAT Summer School (organized between ICIQ and TU-Berlin)*

Tarragona (Spain); Participants: 174

Main speakers: Snyder (Scripps), Dixon (Oxford), Oestereich (TU-Berlin), Nakamura (Tokyo), Driess (TU-Berlin)

2012 *7th Asian-European Symposium on metal-mediated efficient organic synthesis*

Tarragona (Spain); Participants: 141

Main speakers: Chatani (Osaka), Sigman (Utah), Sanford (Michigan), Beller (Rostock), Itami (Nagoya), Hayashi (Nanyang), Plietker (Stuttgart), Fensterbank (Paris)

2011 *ICIQ Summer School*

Tarragona (Spain); Participants: 157

Main speakers: Knochel (Münich), Toste (Berkeley), Bode (ETH), Hartwig (Berkeley)

Institutional Responsibilities:

2017 Associate Editor Synlett

2013- Associate Professor (ICIQ)

2008-2013 Assistant Professor (ICIQ)

2010 Seminar Manager (ICIQ)

In charge of the 2010 seminar program at ICIQ: <http://www.iciq.org/agenda/?pyear=2010>

2008- Member of the jury of 15 PhD thesis at Spanish & International universities

2008- Board academic affairs (ICIQ)

Commissions of Trust:

2017	External Advisory Board (ACS Catalysis)
2015	International advisory board of Grant-in-aid for scientific research on innovative areas by JSPS (Japan society for the promotion of science)
2015	International advisory board of Chem (Cell Press)
2013	International advisory board of European Journal of Organic Chemistry (EurJOC)
2013	Consultant of Catalyst Group Resources TCGR S.A
2013	Consultant Galchimia S.A
2013	Committee Member of the Catalan Agency for Research (AGAUR)
2012 - 2015	Board member of the Catalan Section of the National Society of Chemistry – RSEQ
2009 - 2011	Committee member of the Spanish National Agency for Projects Evaluation – ANEP

Memberships of Scientific Societies :

2008-	Member of the National Society of Chemistry in Spain – RSEQ
2006-	Member of the American Chemical Society – ACS
2005-	Member of the Alexander von Humboldt Society – AvH

Publications :

→ As graduate student & postdoc:

- 1) “A concise enantioselective entry to the synthesis of deoxyazasugars”
Martín, R.; Moyano, A.; Pericàs, M. A.; Riera, A.
Org. Lett. **2000**, 2, 93.
- 2) “A new method for the enantioselective synthesis of *N*-Boc- α,α -disubstituted α -amino acids”
Martín, R.; Islas, G.; Moyano, A.; Pericàs, M. A.; Riera, A.
Tetrahedron **2001**, 57, 6367.
- 3) “Ring-closing metathesis of chiral allylamines. Enantioselective synthesis of (2*S*,3*R*,4*S*)-3,4-dihydroxyproline”
Martín, R.; Alcón, M.; Pericàs, M. A.; Riera, A.
J. Org. Chem. **2002**, 67, 6896.
- 4) “Cross-coupling of alkyl halides with aryl Grignard reagents catalyzed by a low-valent iron complex”
Martín, R.; Fürstner, A.
Angew. Chem., Int. Ed. **2004**, 43, 3955 (**VIP paper**).

- 5) "General approach to glycosidase inhibitors. Enantioselective synthesis of deoxymannojirimycin and Swainsonine"
Martín, R.; Murruzzu, C.; Pericàs, M. A.; Riera, A.
J. Org. Chem. **2005**, *70*, 2325.
- 6) "Advances in iron-catalyzed cross-coupling reactions"
Fürstner, A.; Martín, R
Chem. Lett. **2005**, *34*, 624.
- 7) "Cycloisomerization of enynes catalyzed by iron(0)-ate complexes"
Fürstner, A.; Martín, R.; Majima, K.
J. Am. Chem. Soc. **2005**, *127*, 12236.
- 8) "Domino Cu-catalyzed C-N coupling/hydroamidation: a highly efficient synthesis of nitrogen heterocycles"
Martín, R.; Rivero, M. R.; Buchwald, S. L.
Angew. Chem., Int. Ed. **2006**, *45*, 7079 (**Hot paper**).
• **Highlighted in Synfacts 2007**, Issue 1
- 9) "Pd-catalyzed Kumada-Corriu cross-coupling reactions at low temperatures allow the use of Knochel-type Grignard reagents"
Martín, R.; Buchwald, S. L.
J. Am. Chem. Soc. **2007**, *129*, 3844.
• **Highlighted at** <http://www.tcieurope.eu/en/catalog/B1374.html>
• **Highlighted in SynFacts 2007**, Issue 6
- 10) "Cu-catalyzed tandem C-N bond formation for the synthesis of pirroles and heteroarylpyrroles"
Martín, R.; Larsen, C. H.; Cuenca, A.; Buchwald, S. L
Org. Lett. **2007**, *9*, 3379.
- 11) "Sequential copper-catalyzed vinylation/cyclization: an efficient synthesis of functionalized oxazoles"
Martín, R.; Cuenca, A.; Buchwald, S. L
Org. Lett. **2007**, *9*, 5521.
- 12) "A general method for the direct α -arylation of aldehydes with aryl bromides and chlorides"
Martín, R.; Buchwald, S. L.
Angew. Chem., Int. Ed. **2007**, *38*, 7236 (**Hot paper**).
- 13) "A cheap metal for a "noble" task: preparative and mechanistic aspects of cycloisomerization and cycloaddition reactions catalyzed by low-valent iron complexes"
Fürstner, A.; Majima, K.; Martín, R.; Krause, H.; Kattinig, E.; Goddard, R.; Lehmann, C. W
J. Am. Chem. Soc. **2008**, *130*, 1992.

- 14) "Preparation, structure, and reactivity of nonstabilized organoiron compounds. Implications for iron-catalyzed cross-coupling reactions"
Fürstner, A.; Martín, R.; Krause, H.; Seidel, G.; Goddard, R.; Lehmann, C. W.
J. Am. Chem. Soc. **2008**, *130*, 8773.
- 15) "Palladium-catalyzed Suzuki-Miyaura cross-coupling reactions employing dialkylbiaryl phosphine ligands"
Martín, R.; Buchwald, S. L.
Acc. Chem. Res. **2008**, *41*, 1461.
- 16) "An improved protocol for the Pd-catalyzed α -arylation of aldehydes with aryl halides"
Martín, R.; Buchwald, S. L.
Org. Lett. **2008**, *10*, 4561.

→ **As group leader at ICIQ (since October 2008):**

- 17) "Metal-catalyzed carboxylation of organometallic reagents with carbon dioxide"
Correa, A.; Martín, R.*
Angew. Chem. Int. Ed. **2009**, *48*, 6201.
- 18) "Palladium-catalyzed direct carboxylation of aryl bromides with carbon dioxide"
Correa, A.; Martín, R.*
J. Am. Chem. Soc. **2009**, *131*, 15974.
- **Highlighted in SynFacts 2010**
 - **Highlighted in Nature Chem. 2010**, *2*, 710
 - **Highlighted** <http://www.plataformasinc.es/index.php/esl/Noticias/Una-via-para-reciclar-el-CO2>
- 19) "Pd-catalyzed intramolecular acylation of aryl bromides via C-H functionalization: a highly efficient synthesis of benzocyclobutenones"
Alvarez-Bercedo, P.; Flores-Gaspar, A.; Correa, A.; Martín, R.*
J. Am. Chem. Soc. **2010**, *132*, 466.
- 20) "Ni-catalyzed reduction of inert C-O bonds: a new strategy for using aryl ethers as easily removable directing groups"
Alvarez-Bercedo, P.; Martín, R.*
J. Am. Chem. Soc. **2010**, *132*, 17352.
- **Selected to be the cover page of J. Am. Chem. Soc.**
 - **Highlighted in SynFacts 2011**, Issue 3

- **Highlighted in SynForm 2011, Issue 4**

- **Most read article in November 2011**

- 21) "Mechanistic switch via subtle ligand modulation: palladium-catalyzed synthesis of α,β -substituted styrenes via C-H bond functionalization"
Flores-Gaspar, A.; Martin, R.*
Adv. Synth. Cat. **2011**, 353, 1223.
- 22) "Pd-catalyzed α -arylation and related compounds: recent developments and perspectives"
Novák, P.; Martin, R.*
Curr. Org. Chem. **2011**, 15, 3233.
- 23) "Myth of reality? Fixation of carbon dioxide into complex organic matter under mild conditions"
Kleij, A.; Martin, R.*
ChemSusChem. **2011**, 4, 1259.
- 24) "Synergistic palladium-catalyzed C(sp³)-H activation/C(sp³)-O bond formation: a direct, step-economical route to benzolactones"
Novák, P.; Correa, A.; Gallardo-Donaire, J.; Martin, R.*
Angew. Chem. Int. Ed. **2011**, 50, 12236.
- 25) "Synthesis of 8,8-dipropylbicyclo[4.2.0]octa-1,3,5-trien-7-one via Pd-catalyzed intramolecular C-H bond-acylation"
Flores-Gaspar, A.; Martin, R.*
Org. Synth. **2012**, 89, 159.
- 26) "Ligand-free Ni-catalyzed reductive cleavage of inert carbon-sulfur bonds"
Barbero, N.; Martin, R.*
Org. Lett. **2012**, 14, 796.
- 27) "Ligand-accelerated Pd-catalyzed ketone γ -arylation via C-C cleavage with aryl chlorides"
Ziadi, A.; Martin, R.*
Org. Lett. **2012**, 14, 1266.
- 28) "N-heterocyclic carbene dichotomy in Pd-catalyzed acylation of aryl chlorides via C-H bond functionalization"
Flores-Gaspar, A.; Gutiérrez-Bonet, A.; Martin, R.*
Org. Lett. **2012**, 14, 5234.
- 29) "Formal γ -alkynylation of ketones via Pd-catalyzed C-C cleavage"
Ziadi, A.; Correa, A.; Martin, R.*
Chem. Commun. **2013**, 49, 4286

- 30) “Ni-catalyzed direct carboxylation of benzyl halides with CO₂”
Leon, T.; Correa, A.; Martin, R.*
J. Am. Chem. Soc. **2013**, 135, 1221
• **Most read article in January 2013**
- 31) “Combined experimental and theoretical study on the reductive cleavage of inert C-O bonds with silanes: ruling out a classical Ni(0)/Ni(II) catalytic couple and evidence for Ni(I) intermediates”
Cornellà, J.; Gómez-Bengo, E.; Martín, R.*
J. Am. Chem. Soc. **2013**, 135, 1997
- 32) “Nickel-catalyzed decarbonylative C-H coupling reaction: a strategy for preparing bis(heteroaryl)backbones”
Correa, A.; Cornellà, J.; Martín, R.*
Angew. Chem. Int. Ed. **2013**, 52, 1878
• **Most read article in January 2013**
- 33) “Recent advances in the synthesis and application of benzocyclobutenones and related compounds”
Flores-Gaspar, A.; Martin, R.*
Synthesis **2013**, 45, 563
- 34) “Cu-catalyzed mild C(sp²)-H functionalization assisted by carboxylic acids en route to hydroxylated arenes”
Gallardo Donaire, J.; Martin, R.*
J. Am. Chem. Soc. **2013**, 135, 9350
• **Most read article in June 2013**
- 35) “Fe-catalyzed regiodivergent [1,2]-shift of α -aryl aldehydes”
Gutiérrez-Bonet, A.; Flores-Gaspar, A.; Martin, R.*
J. Am. Chem. Soc. **2013**, 135, 12576
• **Most read article in August 2013**
- 36) “Ni-catalyzed stereoselective arylation of inert C-O bonds at low temperatures”
Cornellà, J.; Martin, R.*
Org. Lett. **2013**, 15, 6298
• **Highlighted in SynFacts 2014, Issue 3**
- 37) “Stereoselective synthesis of 2-acetamido-1,2-dideoxyallonojirimycin (DAJNAc), a new potent hexosaminidase inhibitor”
de la Fuente, A.; Martin, R.; Mena-Barragán, T.; Verdaguer, X.; García-Fernández, J. M.; Mellet, C.

- O.; Riera, A.
Org. Lett. **2013**, *15*, 3638
- 38) “Ni-catalyzed carboxylation of C(sp²)- and C(sp³)-O bonds with CO₂”
Correa, A.; León, T.; Martin, R.*
J. Am. Chem. Soc. **2014**, *136*, 1062
• **Most read article in January 2014**
- 39) “A mild Ni/Cu-catalyzed silylation via C-O cleavage”
Zarate, C.; Martin, R.*
J. Am. Chem. Soc. **2014**, *136*, 223
• **Most read article in February 2014**
- 40) “Ni-catalyzed direct reductive amidation via C-O bond-cleavage”
Correa, A.; Martin, R.*
J. Am. Chem. Soc. **2014**, *136*, 7253
• **Most read article in May 2014**
- 41) “Metal-catalyzed reductive coupling reactions of organic halides with carbonyl-type compounds”
Moragas, T.; Correa, A.; Martin, R.*
Chem. Eur. J. **2014**, *20*, 8242
• **Most accessed paper in June 2014**
- 42) “Ni-catalyzed carboxylation of unactivated primary alkyl bromides and sulfonates with CO₂”
Liu, Y.; Cornellà, J.; Martin, R.*
J. Am. Chem. Soc. **2014**, *136*, 11212
• **Most accessed paper in August 2014**
- 43) “Ni-catalyzed reductive cleavage of methyl 3-methoxy-2-naphthoate”
Cornellà, J.; Zarate, C.; Martin, R.*
Org. Synth. **2014**, *91*, 260
- 44) “Mild ArI-catalyzed C(sp²)-H or C(sp³)-H functionalization/C-O formation: a intriguing catalyst-controlled selectivity switch”
Wang, X.; Gallardo-Donaire, J.; Martin, R.*
Angew. Chem. Int. Ed. **2014**, *53*, 11084
• **Highlighted in SynFacts 2014, Issue 2**
- 45) “Metal-catalyzed activation of ethers via C-O bond-cleavage: a new strategy for molecular diversity”

Cornellà, J.; Zarate, C.; Martin, R.*

Chem. Soc. Rev. **2014**, 43,8081

• **Most read article in August 2014**

- 46) “*Ligand-controlled regiodivergent Ni-catalyzed reductive carboxylation of allyl esters with CO₂*”

Moragas, T.; Cornellà, J.; Martin, R.*

J. Am. Chem. Soc. **2014**, 136, 17702

• **Most read article in December 2014**

- 47) “*Nickel-catalyzed enantioselective C-C bond-formation through C(sp²)-O cleavage in aryl esters*”

Cornella, J.; Jackson, E.; Martin, R.*

Angew. Chem. Int. Ed. **2015**, 54, 4075

• **Highlighted in Synfacts 2015, issue 4, 389**

- 48) “*Nickel-catalyzed chemo-, regio- and diastereoselective bond-formation through proximal C-C cleavage of benzocyclobutenones*”

Juliá-Hernández, F.; Ziadi, A.; Nishimura, A.; Martin, R.*

Angew. Chem. Int. Ed. **2015**, 54, 9537

- 49) “*Ni-catalyzed divergent cyclization/carboxylation of unactivated primary and secondary alkyl halides with CO₂*”

Wang, X.; Liu, Y.; Martin, R.*

J. Am. Chem. Soc. **2015**, 137, 6476

• **Most read article in May 2015**

- 50) “*Ipsoborylation of aryl ethers via Ni-catalyzed C-OMe cleavage*”

Zarate, C.; Manzano, R.; Martin, R.*

J. Am. Chem. Soc. **2015**, 137, 6754

• **Most read article in May 2015**

- 51) “*Ni-catalyzed regioselective hydrocarboxylation of alkynes with CO₂ by using simple alcohols as proton sources*”

Wang, X.; Nakajima, M.; Martin, R.*

J. Am. Chem. Soc. **2015**, 137, 8924

• **Most read article in July 2015**

- 52) “*Ni-catalyzed borylation of aryl fluorides via C-F cleavage*”

Liu, X.-W.; Echavarren, J.; Zarate, C.; Martin, R.*

- J. Am. Chem. Soc.* **2015**, 137, 12470
- **Most accessed article in September 2015**
- 53) “Ni-catalyzed carboxylation of benzylic C-N bonds with CO₂”
Moragas, T.; Gaydou, M.; Martin, R*
Angew. Chem. Int. Ed. **2016**, 55, 5053
- **Most read article in March 2016**
- 54) “Pd-catalyzed C(sp³)-H functionalization/carbenoid insertion: all-carbon quaternary centers via multiple C-C bond formation”
Gutiérrez-Bonet, A.; Juliá-Hernández, F.; de Luis, B.; Martin, R*
J. Am. Chem. Soc. **2016**, 138, 6384-6387
- **Most read article in May 2016**
- 55) “Nickel-catalyzed reductive amidation of unactivated alkyl bromides”
Serrano, E.; Martin, R*
Angew. Chem. Int. Ed. **2016**, 55, 11207-11211
- **Selected as very Important Paper**
 - **Most accessed articles in July 2016**
- 56) “Ni-catalyzed carboxylation of unactivated alkyl chlorides with CO₂”
Börjesson, M.; Moragas, T.; Martin, R*
J. Am. Chem. Soc. **2016**, 138, 7504-7507
- **Most read article in June 2016**
 - **Highlighted in Science, vol.353, issue 6295, pp.134**
- 57) “Ni-catalyzed reductive carboxylation of cyclopropyl motifs with carbon dioxide”
Moragas, T.; Martin, R*
Synthesis. **2016**, 48, 2816
- 58) “Ni- and Fe-catalyzed carboxylation of unsaturated hydrocarbons with CO₂”
Juliá-Hernández, F.; Gaydou, M.; Serrano, E.; Van Gemmeren, M.; Martin, R*
Top Curr Chem. **2016**, 374:45
- 59) “Metal-catalyzed carboxylation of organic (pseudo)halides with CO₂”

Börjesson, M.; Moragas, T.; Gallego, D.; Martin, R*

ACS Catal. **2016**, 6739-6749

• **ACS Editor's Choice**

• **Most read article in October 2016**

60) "Phenol derivatives: modern electrophiles in cross-coupling reactions"

Zárate, C.; van Gemmeren, M.; Somerville, R.J. ; Martin,R*

Advances in Organometallic Chemistry, Elsevier, **2016**, 66, 143

61) "Alkyl bromides as mild hydride sources in Ni-catalyzed hydroamidation of alkynes with isocyanates"

Wang, X.; Nakajima, M.; Serrano, E.; Martin, R*

J. Am. Chem. Soc. **2016**, 138, 15531

• **Most read article in December 2016**

62) "Visible light-promoted atom transfer radical cyclization of unactivated alkyl iodides"

Shen, Y.; Cornella, J.; Juliá-Hernández, F.; Martin, R*

ACS Catal. **2017**, 7, 409-412

• **Most read article in January 2017**

63) "Versatile synthesis and enlargement of functionalized distorted heptagon-containing nanographenes"

Marquez,I; Fuentes,N; Cruz,C; Puente-Muñoz,V; Sotorrios,L; Marcos,M.L; Choquesillo-Lazarte,D;

Biel,B; Crovetto,L; Gomez-Bengoia,E; Gonzalez,M.T; Martín,R*; Cuerva,J.M; G.Campaña,A

Chem. Sci. **2017**, 8, 1068-1074

• **Highlighted in SynFacts, Issue 13, 34**

64) "A mild and ligand-free Ni-catalyzed silylation via C-OMe cleavage"

Zarate, C.; Nakajima, M.; Martin, R.*

J. Am. Chem. Soc. **2017**, 139, 1191-1197

• **Most read article in January 2017**

65) "Ni-catalyzed stannylation of aryl esters via C-O bond cleavage"

Gu, Y.; Martin, R.*

Angew. Chem. Int. Ed. **2017**, *56*, 3187-3190

• **Most accessed articles in February 2017**

- 66) “Switchable Site-Selective Catalytic Carboxylation of Allylic Alcohols with CO₂”
van Gemmeren, M.; Börjesson, M.; Tortajada, A.; Sun, S-Z.; Okura, K.; Martin, R.*
Angew. Chem. Int. Ed. **2017**, *56*, (23), 6558-6562

• **Most accessed articles in May 2017**

- 67) “Forging C-C bonds through decarbonylation of aryl ketones”
Somerville, R.J.; Martin, R.*
Angew. Chem. Int. Ed. **2017**, *56*, (24), 6708-6710

• **Most accessed articles in May 2017**

- 68) “Remote Carboxylation of Halogenated Aliphatic Hydrocarbons with Carbon Dioxide”
Juliá-Hernández, F.; Moragas, T.; Martin, R.*
Nature **2017**, *545*, 84-88

***Highlighted in C&EN, Chemistry World, Chemistry Views and Nature News and Views.**

- 69) “Visible-Light-Driven Carboxylation of Aryl Halides by the Combined Use of Palladium and Photoredox Catalysts”
Shimomaki, K.; Murata, K.; Martin, R.; Iwasawa, N.
J. Am. Chem. Soc. **2017**, DOI: 10.1021/jacs.7b04838.

• **Most accessed articles in July 2017**

- 70) “Catalytic Intermolecular Dicarbofunctionalization of Styrenes with CO₂ and Radical Precursors”
Yatham, V.R.; Shen, Y.; Martin, R.*
Angew. Chem. Int. Ed. **2017**, DOI: 10.1002/anie.201706263R1.

• **Most accessed articles in August 2017**

- 71) “Site-Selective Catalytic Carboxylation of Unsaturated Hydrocarbons with CO₂ and Water”
Gaydou, M.; Moragas, T.; Juliá-Hernandez, F.; Martin, R.*
J. Am. Chem. Soc. **2017**, DOI: 10.1021/jacs.7b07637.

• **Most accessed articles in August 2017**

- 72) “Stereospecific Nickel-Catalyzed Borylation of Secondary Benzyl Pivalates”

Martin-Montero, R.; Krolikowski, T.; Zárate, C.; Martin, R*

Synlett **2017**, DOI:10.1055/s-0036-1590962

- **Invited article for the “Cluster C-O Activation”**

73) “Author Profile-Rubén Martin”

Angew. Chem. Int. Ed. **2017**, DOI: 10.1002/anie.201709707

74) “Walking Metals for Remote Functionalization”

ACS Cent. Sci. **2018**, DOI: 10.1021/acscentsci.8b00005.

- **Most read article in February 2018**

75) “Ni-Catalyzed Site-Selective Dicarboxylation of 1,3-Dienes with CO₂”

J. Am. Chem. Soc. **2018**, DOI: 10.1021/jacs.7b13220.

- **Most read article in February 2018**

Patents:

Palladium-catalyzed direct carboxylation of aryl bromides with carbon dioxide

Correa, A.; Martin, R

Institut Català d'Investigació Química (2009)

EP0938227

Catalytic carboxylation of activated alkanes and/or olefins

Juliá-Hernández, F.; Cornella, J.; Martin, R.

Institut Català d'Investigació Química (2016)

163823362-1451

Photocatalyst system and use thereof in a photocatalytic process

Shen, Y.; Gu, Y.; Martin, R

Institut Català d'Investigació Química (2017)

EP17382772

Production of adipic acid and derivatives thereof

Tortajada, A.; Martin, R

Institut Català d'Investigació Química (2017)

Supervised PhD thesis:

- 1) **Selectivity Control in Pd-Catalyzed C-H functionalization reactions** (16/04/2013)
Areli Flores; Universitat Rovira i Virgili
- 2) **Synthesis of phthalides and benzolactones via catalytic C-H functionalization/C-O bond-formation** (12/06/2014)
Juan Gallardo; Universitat Rovira i Virgili
- 3) **Metal-catalyzed carbon-carbon bond-activation of strained molecules** (10/11/2014)
Asraa Ziadi; Universitat Rovira i Virgili
- 4) **Pd-catalyzed C-H Functionalization Reactions via the Intermediacy of Strained Metallacycles** (15/01/2016)
Álvaro Gutiérrez; Universitat Rovira i Virgili
- 5) **Ni-catalyzed Fixation of Heterocumulenes into Organic Matter and C-H Functionalization Reactions** (15/11/15)
Xueqiang Wang; Universitat Rovira i Virgili
- 6) **From Click Chemistry to Catalytic Cleavage of Unstrained C-C Bonds** (22/07/2016)
Míriam Sau; Universitat Rovira i Virgili
- 7) **C-heteroatom bond-formation via Ni-catalyzed C-O bond-cleavage** (27/01/2017)
Cayetana Zárata; Universitat Rovira i Virgili

PhD thesis committees:

2008	Eloísa Jimenéz Núñez (Universidad Autónoma de Madrid)
2009	Sílvia Subirats Benet (ICIQ-Universitat Rovira i Virgili)
2010	Verónica López Carrillo (ICIQ-Universitat Rovira i Virgili)
2011	Esther Alza Barrios (ICIQ-Universitat Rovira i Virgili)
2011	Alejandro Varela Fernandez (ICIQ-Universitat Rovira i Virgili)
2011	Antonio Bermejo Gómez (Universidad de Sevilla)
2011	Claudio Martínez Fernández (Universidad de Vigo)
2011	César Rogelio Solorio (ICIQ-Universitat Rovira i Virgili)
2011	Thomas M. Gogsing (Aarhus University)
2012	Rubén Tato (Universidad A Coruña)
2012	Peng Ren (EPFL, Lausanne)

2013	Tania Jimenez Trujillo (Universidad de Granada)
2013	Abraham López (Universidad Autónoma de Madrid)
2014	Carla Obradors (ICIQ-Universitat Rovira i Virgili)
2015	David Bastida (ICIQ-Universitat Rovira i Virgili)
2015	Zhong Lian (Aarhus University)
2015	Irina Sagamanova (ICIQ-Universitat Rovira i Virgili)
2016	Joachim Ahlin (EPFL, Lausanne)
2017	Lorena Mendive (Universitat de Barcelona)
2017	Bart Herlé (ICIQ-Universitat Rovira i Virgili)
2017	Gustavo Borrajo (Université de Genève)
2018	Shaoulei Wang (ICIQ-Universitat Rovira i Virgili)

Awards Received by Group Members :

Arkaitz Correa (2011-2014) –Ramon y Cajal 2014

Cayetana Zárata (2015)- Suschem PhD award

Xueqiang Wang (2015) -Eli Lilly PhD award

Cayetana Zárata (2016) -Eli Lilly PhD award

Eloísa Serrano (2017)-Eli Lilly PhD award