

Ramon Rios Torres



PERSONAL DATA

Date of birth: 10th of May, 1974
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Mother tongue: Spanish, Catalan
Other languages: English, German (basic)
Research ID: B-8080-2009

EDUCATION

2000 PhD in Organic Chemistry.
Universitat de Barcelona.

1997 Master Degree in Chemistry.
Universitat de Barcelona.

1996 Bachelor of Science in Chemistry.
Universitat de Barcelona.

PROFESSIONAL EXPERIENCE

08/2012 – present Reader in Organic Chemistry
University of Southampton
Southampton, UK

09/2011 – 04/2013 Editor of Journal of Asymmetric Organocatalysis
Ed. Versitas

05/2011 – 07/2011 Visiting Professor (JSPS invitational)
Nagoya Institute of Technology

01/2008 – 08/2012 ICREA Junior Professor
Universitat de Barcelona

05/2006 – present Academic Collaboration with Prof. Jose Maria Alvarez-Pez
Grupo de Fotoquímica y Fotobiología
Universidad de Granada
Spain

04/2006 – 10/2007 Stockholm University
Post-doctoral researcher with Prof. Armando Cordova.
Organocatalysis

08/2004 – 04/2006 Max Planck Institute für Kohlenforschung
Post-doctoral researcher with Prof. Benjamin List.
Organocatalysis

09/2002 – 08/2004	J.C. Uriach S.A. Uriach Pharma Research Scientist Medicinal chemistry department Drug discovery
01/2002 – 08/2002	University of Barcelona Teaching Assistant <i>Study of heterobimetallic Pauson-Khand reaction.</i>
2001	University of Pennsylvania. Post-doctoral researcher with Prof. Patrick Walsh. <i>Study and synthesis of enantiopure atropisomeric amides</i> <i>Development of new catalyst for reduction of ketones with silanes.</i>
11/2000 - 01/2001	Universitat de Barcelona. Teaching Assistant
05/1999 - 09/1999	<i>Massachusetts Institute of Technology.</i> Stage with Prof. Gregory C. Fu. <i>Development of new planar chiral bipyridine ligands.</i>
07/1997 - 11/2000	<i>Universitat de Barcelona.</i> Graduate student with Prof. Albert Moyano. <i>Development of new asymmetric versions of the Pauson-Khand reaction.</i>
07/1996 - 07/1997	<i>Universitat de Barcelona</i> Master Degree student with Prof. Albert Moyano. <i>Study of the intramolecular Pauson-Khand reaction with electron deficient alkynes.</i>

AWARDS AND DISTINTIONS

2013	Career Integration Grant Award. (FP-7 European Framework)
2011	Acreditación Nacional para profesor titular de universidad
2011	Acreditació de Recerca Avançada (Generalitat de Catalunya)
2011	Andrea-Nekane Roig Alba was awarded with the IX Lilly award to the best PhD work in Organic Chemistry in Spain
2011	Daiko Fellowship
2011	Member of the international board of International Journal of Organic Chemistry
2011	JSPS Invitational Research Fellowship
2010	Andrea-Nekane Roig Alba was awarded with the "Sant Jordi Award" for her research work in my group.
2010	Member of International Scientific Board of 1 st Annual World Congress of Catalytic Asymmetric Synthesis-2010 (WCCAS-2010)

- 2009 Guest Editor special Issue Ferrocenes in Molecules
- 2008 ICREA Junior Academia.
- 2007 Wenner-Gren Fellowship (Sweden)
- 2007 Acreditacio de Recerca (Generalitat de Catalunya)
- 2006 JSPS Fellowship (Japan)
- 2005 JSPS Fellowship (Japan)
- 2004 Spanish Ministry of Education Postdoctoral Fellowship
- 2004 Informe favorable per a la contratacio de professor lector i col.laborador
- 2002 Spanish Ministry of Education, Torres Quevedo Fellowship
- 1996 Spanish Ministry of Education, Predoctoral Fellowship (Program of General Promotion of Knowledge)

GRANTS:

- 2007 P07-FQM-3091 with Professor Jose Maria Alvarez Pez
- 2007 CTQ2007-61619BQU with Professor Jose Maria Alvarez Pez 200.000 Euros
- 2009 AYA2009-13920-C02-02 with Professor Albert Moyano 136.000 Euros
- 2013 CIG-Career Integration Grant 100.000 Euros

Advisor of 4 PhD:

Andrea Nekane Roig Alba	2012
Xavier Companyo	2013
Victor Ceban	2015
Marta Meazza	2015

Advisor of 5 Masters:

Andrea Nekane Roig Alba	2008
Guillem Valero	2009
Natalia Bravo	2010
Alex Zea	2010
Stephen Kellet	2013

PUBLICATIONS :

Hirsch's Index = 34 (December 2013)
 Total citations = 3000 (December 2013)

As a corresponding author (2007-Present)

98- "Expanding the scope of organocatalytic monofluorination of enals. Enantioselective synthesis of fluoroindanes and fluorochromanols" B. Wang, Y.-S. Kim, S. Kim, X. Companyó, J. W. Yang, Jing Li, A. Moyano, R. Rios, *Adv. Synth. Catal.* **2014**, *accepted*.

97- "Enantioselective methodologies with N-carbamoyl amines" Jan Vesely and Ramon Rios* *Chem. Soc. Rev.* **2013**, *In Press*.

96- "One-pot organocatalytic synthesis of α -methylene- γ -lactams", Xavier Companyó, P. Geant, A. Moyano, A. Mazzanti, A. Janecka, R. Rios* *Tetrahedron*, **2013**, *In press*.

- 95- "Three-component diastereoselective cascade synthesis of thiohydantoins" Victor Ceban, Kane Hands, Marta Meazza, Mark Light and Ramon Rios* *Tetrahedron Lett.* **2013**, 54, 7183-7187.
- 94- "First One-pot organocatalytic synthesis of α -methylene- γ -lactones" Xavier Companyó, A. Moyano, A. Mazzanti, A. Janecka, R. Rios* *Chem. Commun.* **2013**, 49(12), 1184-1186. **Highlighted in Synfacts (Synfacts; 02, 2013)**
- 93- "Enantioselective organocatalytic amination of Pyrazolone
s" M. Šimek, M. Remeš, J. Veselý* and R. Rios* *Asian, J. Org. Chem.* **2013**, 2(1), 64-68. **Top 25 downloaded paper in Asian J. Org. Chem. in 2013.**
- 92- "First enantioselective organocatalytic addition of nitromethylphenylsulfone to enals. Enantioselective synthesis of cyclohexen carbaldehydes bearing 3 consecutive chiral centers" R. Rios,* J. Vesely*, *Curr. Org. Synth.* **2013**, 10, 467-471.
- 91- "Exciting time in Organocatalysis" R. Rios and Tecla Gasperi *Asymmetric Organocatalysis* **2012**, DOI: 10.2478/asorg-2012-0001.
- 90- "Enantioselective Fluoromalonate Addition to MBH Carbonates" B. Wing, X. Companyo, A. Moyano, R. Rios, *Tetrahedron Lett.* **2012**, 53, 4124-4129.
- 89- "Organocatalytic α -alkylation of aldehydes" J. Vesely*, R.Rios*, *ChemCatChem* **2012**, 4(7), 942-953.
- 88- "Enantioselective methodologies for the synthesis of spiro compounds" R. Rios*, *Chem. Soc. Rev.* **2012**, 41, 1060-1074.
- 87- "Organocatalytic enantioselective Pyrazol-3-one addition to maleimides" A. Mazzanti, T. Calvet, M. Font-Bardía, A. Moyano, R. Rios*, *Org. Biomol. Chem.* **2012**, 1645-1652.
- 86- "Organocatalytic enantioselective methodologies using Morita-Baylis-Hillman carbonates and acetates" R. Rios*, *Catal. Sci. Technol.* **2012**, 2, 267-278. **(Hot paper by RSC)**
- 85- "Enantioselective addition of oxazolones to maleimides. An easy entry to quaternary aminoacids" A.-N. R. Alba, G. Valero, T. Calbet, M. Font-Bardía, A. Moyano* and R. Rios*. *New J. Chem.* **2012**, 36, 613-618.
- 84- "Enantioselective Organocatalytic Oxyamination of Unprotected 3-Substituted Oxindoles" X. Companyó, G. Valero, O. Pineda, T. Calvet, M. Font-Bardía, A. Moyano,* and R. Rios*, *Org. Biomol. Chem.* **2012**, 10, 431-439.
- 83- "Enantioselective organocatalytic asymmetric allylic alkylation. Bis(phenylsulfonyl)methane addition to MBH carbonates" X. Companyo, G. Valero, V. Ceban, T. Calbet, M. FontBardía, A. Moyano, R. Rios, *Org. Biomol. Chem.* **2011**, 9, 7986-7899.
- 82- "Highly enantioselective organocatalytic cascade reaction for the synthesis of piperidines and oxazolidines" S. Číhalová, G. Valero, J. Schimer, M. Humpl, M. Dračinský, A. Moyano, R. Rios,* and J. Veselý*, *Tetrahedron* **2011**, 67, 8942-8950. **Highlighted in Synfacts (Synfacts; 01, 2012)**
- 81- "Highly enantioselective cascade synthesis of spiropyrazolones" A. Zea, A.-N. R. Alba, A. Mazzanti, A. Moyano, R. Rios*, *Org. Biomol. Chem.* **2011**, 9, 6519-6523.
- 80- "Asymmetric Organocatalytic Cyclization and Cycloaddition Reactions" A. Moyano*, R. Rios*, *Chem. Rev.* **2011**, 111, 4703-4832.
- 79- "Asymmetric Organocatalytic Anthrone Additions to Activated Alkenes" A. Zea, A.-N. R. Alba, N. Bravo, A. Moyano*, R. Rios*, *Tetrahedron* **2011**, 67, 2513-2529.
- 78- "Alkylation of oxazolones and related heterocycles via a S_N1 reaction" A.-N. R. Alba, T. Calbet, M. Font-Bardía, A. Moyano, R. Rios*. *Eur. J. Org. Chem.* **2011**, 2053-2056.

- 77- "Highly stereoselective synthesis of spiropyrazolones" A. Zea, A.-N. R. Alba, G. Valero, T. Calbet, M. Font-Bardía, A. Moyano, R. Rios*. *Eur. J. Org. Chem.* **2011**, 1318-1334.
- 76- "Enantioselective Organocatalytic Synthesis of 5 and 6 Heterocycles" J. Vesely*, R. Rios*. *Current Organic Chemistry* **2011**, 4046-4082.
- 75- "Oxazolones in Organocatalysis, New Tricks for an Old Reagent" A.-N. R. Alba, R. Rios*. *Chem. Asian J.* **2011**, 720.
- 74- "Enantioselective Organocatalytic Synthesis of Fluorinated Molecules" G. Valero, X. Companyó, R. Rios*. *Chem. Eur. J.* **2011**, 17, 2018-2037.
- 73- "Organocatalytic synthesis of spiro compounds via a cascade Michael-Michael-Aldol reaction" X. Companyó, A. Zea, A.-N. R. Alba, A. Mazzanti, A. Moyano and R. Rios*. *Chem. Commun.* **2010**, 46, 6953-6955.
- 72- "Asymmetric Organocatalytic Michael Addition of Azlactones to cis-1,2-Bis(phenylsulfonyl)ethene. A Simple Entry to Quaternary alpha-Amino Acids" G. Valero, N. Bravo, A.-N. R. Alba, X. Companyó, A. Moyano*, R. Rios*. *New J. Chem* **2010**, 34, 1816-1819.
- 71- "Searching for Untrodden Paths in the Organocatalysis Territory" G. Valero, N. Bravo, A.-N. R. Alba, X. Companyó, A. Moyano*, R. Rios*. *Synlett* **2010**, 1883-1908.
- 70- "Highly enantioselective addition of 1-fluoro-1-nitro(phenylsulfonyl)methane to alpha-beta-unsaturated aldehydes" M. Kamlar, N. Bravo, A.-N. R. Alba, S. Hybelbauerová, I. Císařová, J. Vesely*, A. Moyano*, R. Rios* *Eur. JOC* **2010**, 5464-5470.
- 69- "Bifunctional thiourea-catalyzed asymmetric addition of anthrones to maleimides" A. Zea, G. Valero, A.-N. R. Alba, A. Moyano, R. Rios. *Adv. Synth. Catal.*, **2010**, 352, 1102-1106.
- 68- "Enantioselective organocatalytic addition of azlactones to maleimides: A highly stereocontrolled entry to 2,2-disubstituted-2H-oxazol-5-ones" A.-N. R. Alba, G. Valero, T. Calvet, M. Font-Bardía, A. Moyano*, R. Rios*. *Chem. Eur. J.* **2010**, 16, 9884-9889.
- 67- "Sulfones: New reagents in Organocatalysis" A.-N. R. Alba, X. Companyó, R. Rios*. *Chem. Soc. Rev.* **2010**, 39, 2018-2033.
- 66- "Enantioselective Organocatalytic Addition of Oxazolones to 1,1-Bis(phenylsulfonyl)ethylene: A Convenient Asymmetric Synthesis of Quaternary alpha-Amino Acids". A.-N. R. Alba, X. Companyó, G. Valero, A. Moyano, R. Rios. *Chem. Eur. J.* **2010**, 16, 5354-5361.
- 65- "Substrate-dependent nonlinear effects in proline-thiourea catalyzed aldol reactions. Unraveling the role of the thiourea co-catalyst". N. El-Hamdouni, X. Companyó, R. Rios*, A. Moyano*. *Chem. Eur. J.* **2010**, 16, 1142-1148.
- 64- "Improving Organocatalysts via supramolecular interactions". X. Companyó, M. Viciano, R. Rios. *Mini Reviews in Organic Chemistry* **2010**, 1-7.
- 63- "Highly Z- and Enantioselective Ring-Opening/Cross-Metathesis and Z-Selective Ring-Opening Metathesis Polymerization". A. Córdova, R. Rios. *Angew. Chem.* **2009**, 48, 8827-8831.
- 62- "Asymmetric Organocatalytic Cyclopropanation. Highly Stereocontrolled Synthesis of Chiral Cyclopropanes with Quaternary Stereocenters". X. Companyó, A.-N. Balaguer, F. Cárdenas, A. Moyano, R. Rios. *Eur. J. Org. Chem.* **2009**, 3075-3080.
- 61- "A First Highly Regio- and Diastereoselective Oxazolone Addition to Nitrostyrenes". A.-N. Balaguer, X. Companyó, T. Calvet, M. Font-Bardía, A. Moyano, R. Rios. *Eur. J. Org. Chem.* **2009**, 199-203.
- 60- "A mild and convenient Synthesis of 4-Tosyl-2-oxazolines". X. Companyó, A. Moyano, R. Rios. *Letters in Organic Chemistry* **2009**, 293-296.

- 59- "Highly enantioselective organocatalytic synthesis of piperidines. Formal synthesis of (-)-Paroxitene". G. Valero, J. Schimer, I. Cisarova, J. Vesely, A. Moyano, R. Rios. *Tetrahedron Letters* **2009**, 50, 1943-1946.
- 58- "Highly Enantio- and Diastereoselective Organocatalytic Desymmetrization of Prochiral Cyclohexanones by Simple Direct Aldol Reaction Catalyzed by Proline". X. Companyó, G. Valero, L. Crovetto, A. Moyano, R. Rios. *Chem. Eur. J.* **2009**, 15, 6556-6558.
- 57- "Enantioselective addition of anthrones to α,β -unsaturated aldehydes". A.-N. Alba, N. Bravo, A. Moyano, R. Rios. *Tetrahedron Letters* **2009**, 50, 3067-3069.
- 56- "Organocatalytic kinetic resolution of a planar-chiral ferrocenecarbaldehyde". A.-N. Alba, P. Gomez-Sal, R. Rios, A. Moyano. *Tetrahedron Asymmetry* **2009**, 20, 1314-1318.
- 55- "Formal Highly Enantioselective Organocatalytic Addition of Fluoromethyl anion to α,β -unsaturated Aldehydes". A.-N. Alba, X. Companyó, A. Moyano, R. Rios. *Chem Eur. J.* **2009**, 15, 7035-7038.
- 54- "Organocatalytic Tandem Reactions". A.-N. Alba, X. Companyó, M. Viciano, R. Rios. *Current Organic Chemistry* **2009**, 1432-1474.
- 53- "Highly Enantioselective 2-fluoromalonate Addition to α,β -unsaturated aldehydes". X. Companyó, M. Hejnová, M. Kamlar, J. Vesely, A. Moyano, R. Rios. *Tetrahedron Lett.* **2009**, 50, 5021-5024.
- 52- "Formal highly enantioselective organocatalytic addition of alkyl anions to α,β -unsaturated aldehydes. Application to the synthesis of isotope-enantiomers". A.-N. Alba, X. Companyó, A. Moyano, R. Rios. *Chem. Eur. J.* **2009**, 15, 11095-11099.
- 51- "Asymmetric Amine Synthesis". R. Rios, A. Cordova. *Current Opinion in drug discovery and development* **2009**, 12, 824-847.
- 50- "The Holy Grail of Organocatalysis achieved: Intermolecular α -Alkylation of aldehydes becomes true". A.-N. Alba, M. Viciano, R. Rios. *Chem. Cat. Chem.* **2009**, 1, 437-442.
- 49- "Enantioselective addition of oxindoles to aliphatic α,β -unsaturated aldehydes". N. Bravo, I. Mon, X. Companyó, A.-N. Alba, A. Moyano, R. Rios. *Tetrahedron Lett.* **2009**, 50, 6432-6435.
- 48- "Kinetic Resolution: A powerful tool for the synthesis of Planar-Chiral Ferrocenes Sulfones". A.-N. R. Alba, R. Rios. *Molecules* **2009**, 14, 4747-4757.
- 47- "Three component, highly diastereoselective metal free synthesis of 2,3,4,5 tetrasubstituted pyrrolidines". L. Crovetto, R. Rios. *Synlett* **2008**, 12, 1840-1844. **Highlighted in Synfacts (Synfacts; 10, 2008)**
- 46- "Enantioselective Organocatalytic Mannich Reactions of Ferrocenecarbaldehyde". G. Valero, A.-N. Balaguer, A. Moyano, R. Rios. *Tetrahedron Lett.* **2008**, 49, 6559-6562.
- 45- "Organocatalytic asymmetric 5-hydroxypyrrolidine synthesis: a highly enantioselective route to 3-substituted proline derivatives". R. Rios, I. Ibrahim, J. Vesely, A. Cordova. *Tetrahedron Letters* **2007**, 48, 8695-8699.

As co-author (1999-present)

- 44- "Catalytic Asymmetric Aziridination of α,β -Unsaturated Aldehydes" L. Deiana, P. Dzedzic, G.-L. Zhao, J. Vesely, I. Ibrahim, R. Rios, J. Sun, A. Córdoba*. *Chem. Eur. J.* **2011**, 17, 7904-7917.
- 43- "Nonlinear Effects in Asymmetric Amino Acid Catalysis by Multiple Interconnected Stereoselective Catalytic Networks" R. Rios, P. Schyman, H. Sundén, G.-L. Zhao, F. Ullah, L. Chen, A. Laaksonen, A. Cordova*. *Chem. Eur. J.* **2010**, 16, 13935-13940.

- 42- "Photophysics of a fluorescent xanthenic derivative useful to label amine residues" P. Lozano-Velez, A. Orte, L. Crovetto, J. M. Paredes, R. Rios, J. M. Alvarez-Pez*, E. M. Talavera. *Luminiscence* **2010**, 25, 86-87.
- 41- "Kinetic Uniformity Between Buffer-Mediated Ground- and Excited-State Proton Exchange Reactions". J. M. Paredes, A. Orte, L. Crovetto, J. M. Alvarez-Pez, R. Rios, M. J. Ruedas-Rama, E. M. Talavera. *Phys. Chem. Chem. Phys.* **2010**, 323-327.
- 40- "One-pot highly enantioselective catalytic Mannich-type reactions between aldehydes and stable α -amido sulfones: Asymmetric synthesis of beta-amino aldehydes and beta-amino acids". L. Deiana, G.-L. Zhao, P. Dzedzic, R. Rios, J. Vesely, J. Ekström, A. Córdova. *Tetrahedron Lett.* **2010**, 51, 234-237.
- 39- "En Route to New Chiral Ferrocene Derivatives: Dead-ends, Detours, and Avenues". A. Moyano, R. Rios, *Synlett* **2009**, 1863-1886.
- 38- "Tuned Lifetime, at the ensemble and single molecule level, of a Xanthenic Fluorescent Dye by Means of Buffer-Mediated Excited-State Proton Exchange Reaction". J. M. Paredes, L. Crovetto, R. Rios, A. Orte, J. M. Alvarez-Pez, E. M. Talavera. *Phys. Chem. Chem. Phys.* **2009**, 29, 5400-5407.
- 37- "Highly diastereo- and enantioselective catalytic domino Michael/Aldol reactions: synthesis of benzothiopyrans with three contiguous chiral centers". G.-L. Zhao, J. Vesely, R. Rios, I. Ibrahim, H. Sundén, A. Cordova *Adv. Synth. Cat.* **2008**, 350, 237-242.
- 36- "A one-pot catalytic asymmetric cascade synthesis of highly substituted cycloheptanes". J. Vesely, R. Rios, I. Ibrahim, G.-L. Zhao, L. Eriksson, A. Córdova, *Chem. Eur. J.* **2008**, 14, 2693-2698.
- 35- "Catalytic Enantioselective 5-hydroxyisoxazolidine Synthesis: An Asymmetric Entry to beta-Amino Acids". I. Ibrahim, R. Rios, J. Vesely, G.-L. Zhao, A. Córdova; *Synthesis* **2008**, 7, 1152-1157.
- 34- "Proline and Lewis base co-catalyzed addition of alpha,beta-unsaturated aldehydes to nitrostyrenes". J. Vesely, R. Rios, A. Córdova, *Tetrahedron Letters* **2008**, 49, 1137-1140.
- 33- "Synthesis of a Fluorescent Xanthenic Derivative Useful for Labeling Amine Residues". L. Crovetto, R. Rios, J. M. Alvarez-Pez, J. M. Paredes, P. Lozano-Velez, C. del Valle, E. M. Talavera. *J. Phys. Chem. B* **2008**, 112, 10082-10085.
- 32- "One-Pot Organocatalytic Domino Michael/alpha-Alkylation Reactions: Direct Catalytic Enantioselective Cyclopropanation and Cyclopentanation Reactions". I. Ibrahim, G.-L. Zhao, R. Rios, J. Vesely, H. Sundén, P. Dzedzic, A. Córdova; *Chem. Eur. J.* **2008**, 14, 7867-7879.
- 31- "Organocatalytic Asymmetric Hydrophosphination of alpha,beta-unsaturated aldehydes: Development, Mechanism and DFT Calculations". I. Ibrahim, P. Hammar, J. Vesely, R. Rios, L. Erickson, A. Cordova; *Adv. Synth. Catal.* **2008**, 350, 1875-1884.
- 30- "Organocatalytic Enantioselective Aminosulfonylation of alpha,beta-unsaturated aldehydes". G.-L. Zhao, R. Rios, J. Vesely, L. Erickson, A. Córdova. *Angew. Chem.* **2008**, 47, 8468-8472. **Highlighted in Synfacts (Synfacts; 12, 2008)**
- 29 - "A Highly Enantioselective Catalytic Domino aza-Michael/Aldol Reaction: One Pot Organocatalytic Asymmetric Synthesis of 1,2-Dehydroquinolines". H. Sundén, R. Rios, I. Ibrahim, G.-L. Zhao, L. Eriksson, A. Córdova. *Adv. Synth. Cat.*, **2007**, 349, 827-832.
- 28- "Highly Enantioselective Synthesis of 2H-1-Benzothiopyrans by a Catalytic Domino Reaction". R. Rios, H. Sundén, I. Ibrahim, G.-L. Zhao, L. Eriksson, A. Córdova. *Tetrahedron Lett.*, **2006**, 47, 8679-8682. **Highlighted in Synfacts (Synfacts; 01, 2007)**
- 27- "Organocatalytic Asymmetric 5-Hydroxyisoxazolidine Synthesis: A Highly Enantioselective Route to beta-Amino Acids". I. Ibrahim, R. Rios, J. Vesely, G.-L. Zhao, A. Córdova. *Chem. Commun.*, **2007**, 849-852. **Synfacts of the Month (Synfacts; 02, 2007).**

- 26- "Organocatalytic Enantioselective Aziridination of α,β -unsaturated Aldehydes". J. Vesely, I. Ibrahim, G.-L. Zhao, R. Rios, A. Córdova. *Angew. Chem.* **2007**, *46*, 778-781. **Highlighted in Synfacts (Synfacts; 03, 2007)**
- 25- "A Simple Organocatalytic Enantioselective cyclopropanation of α,β -unsaturated Aldehydes". R. Rios, H. Sundén, J. Vesely, G.-L. Zhao, P. Dziejcz, A. Córdova, *Adv. Synth. Cat.*, **2007**, *349*, 1028-1032. **Highlighted in Synfacts (Synfacts; 08, 2007)**
- 24- "Highly enantioselective organocatalytic addition of unmodified aldehydes to *N*-BOC protected imines: one-pot asymmetric synthesis of β -amino acids". J. Vesely, R. Rios, I. Ibrahim, A. Córdova. *Tetrahedron Letters* **2007**, *48*, 421-425.
- 23- "A simple and concise asymmetric entry to tetrahydroxanthones". R. Rios, H. Sundén, I. Ibrahim, A. Córdova. *Tetrahedron Letters*, **2007**, *48*, 2181-2184.
- 22- "Enantioselective organocatalytic conjugate addition of amines to α,β -unsaturated aldehydes: one-pot asymmetric synthesis of β -amino acids and 1,3-diamines". J. Vesely, I. Ibrahim, R. Rios G.-L. Zhao, Y. Xu, A. Córdova. *Tetrahedron Letters* **2007**, *48*, 2193-2198.
- 21- "Direct enantioselective synthesis of bicyclic Diels-Alder products". H. Sundén, R. Rios, Y. Xu, L. Eriksson, A. Córdova. *Adv. Synth. Cat.* **2007**, *349*, 2549-2555. **Highlighted in Synfacts (Synfacts; 02, 2008)**
- 20- "Asymmetric Amplification in the Amino Acid-Catalyzed Amino Acid Synthesis". I. Ibrahim, H. Sundén, P. Dziejcz, R. Rios, A. Córdova. *Adv. Synth. Cat.* **2007**, *349*, 1858-1872.
- 19- "Enantioselective Organocatalytic Hydrophosphination of α,β -Unsaturated Aldehydes". I. Ibrahim, R. Rios, J. Vesely, P. Hammar, L. Eriksson, F. Himo, A. Córdova. *Angew. Chem.* **2007**, *46*, 4507-4510.
- 18- "A simple one-pot, three component, highly enantioselective isoxazolidine synthesis". R. Rios, Ismail Ibrahim, Jan Vesely, and Armando Cordova. *Tetrahedron Letters* **2007**, *48*, 5701-5705.
- 17- "One pot organocatalytic domino Michael/ α -alkylation reactions. Highly enantioselective synthesis of functionalized cyclopentanones and cyclopentanol". R. Rios, H. Sundén, J. Vesely, G.-L. Zhao, I. Ibrahim, A. Córdova *Tetrahedron Letters* **2007**, *48*, 5835-5839.
- 16- "Organocatalytic asymmetric multi-component [C+NC+CC] synthesis of highly functionalized pyrrolidine". I. Ibrahim, R. Rios, J. Vesely, A. Cordova. *Tetrahedron Letters* **2007**, *48*, 6252-6257.
- 15- "Highly Organocatalytic Enantioselective α -Selenylation of aldehydes". H. Sunden, R. Rios, A. Cordova. *Tetrahedron Letters* **2007**, *48*, 7865-7869.
- 14- "One Pot Pyrrolidine-Catalyzed Synthesis of Benzopyranes, Benzothiopyranes and Dihydroquinolidines". I. Ibrahim, H. Sunden, R. Rios, G.-L. Zhao, A. Cordova. *Chimia*, **2007**, *61* (5), 221-228.
- 13- "Photophysics of a Xanthenic Derivative Dye Useful as "on/of" Fluorescence Probe". L. Crovetto, J. M. Paredes, R. Rios, E. M. Talavera, J. M. Alvarez-Pez. *J. Phys. Chem. A* **2007**, *111*, 13311-13320.
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- 2- *Direct Catalytic Asymmetric Mannich Reactions and Surroundings*. Armando Córdova, and Ramon Rios. Chapter. *Amino Group Chemistry. From Synthesis to the life Sciences*. WCH, **2007**, ISBN: 978-3-527-31741-7.
- 3- *Asymmetric Synthesis of pyrrolidines and piperidines*. Xavier Companyó, Andrea-Nekane Alba, Ramon Rios, Springer, *Targets in Heterocyclic Systems*. ISBN 978-88-86208-52-9. **2009**, 13, 1414-1434
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- 7- *The Pauson-Khand Reaction*. Editor: Ramon Rios. WCH **2012**. ISBN-10: 0470970766 | ISBN-13: 978-0-47097-0768
- 8- *Stereoselective Orgnocatalysis*. Editor: Ramon Rios. WCH **2013**. ISBN-10: 1118203534 | ISBN-13: 978-1-11820-3538

9- Addition to α,β -unsaturated aldehydes and ketones R. Rios Chapter in "Comprehensive Enantioselective Organocatalysis: Catalysts, Reactions, and Applications" WCH 2013, ISBN-10: 3527332367 | ISBN-13: 978-3527332366.

10- Benzenesulfonyl chloride. By Norios Shibata and Ramon Rios. From e-EROS Encyclopedia of Reagents for Organic Synthesis (2013) ISBN: 978-0470842898 doi: 10.1002/047084289X

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45- *"Pyrazolones a new reagent for organocatalysis"*. Rios, Ramon; Abstracts of Papers, 241th ACS National Meeting, Anaheim, CA, United States, March 27-31, **2011**.

46- *"Catalytic asymmetric aziridination of α , β -unsaturated aldehydes"* Deiana, Luca; Cordova, Armando; Dziejczak, Pawel; Zhao, Gui-Ling; Vesely, Jan; Ibrahim, Ismail; Rios, Ramon; Sun, Junliang, Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, **2011**

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INVITED LECTURES

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Spain

April 2008

Charles Prague University	Czech Republik	April 2008
CSIC (Madrid)	Spain	May 2010
Universidad Autonoma Madrid	Spain	May 2010
Nagoya Institute of Technology	Japan	May 2011
Tokyo University	Japan	June 2011
Tokyo University of Science	Japan	June 2011
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Kyoto University	Japan	June 2011
Tottori University	Japan	July 2011
Groningen University	The Netherlands	December 2011
Southampton University	UK	December 2011
East China Normal University	China	May 2012
East China University of Science & Technology	China	May 2012
Shanghai Institute for Organic Chemistry	China	May 2012
Soochow University	China	May 2012
University of St Andrews	UK	August 2012
Caen University	France	December 2012
Cardiff University	UK	January 2013
Bader Award (Southampton University)	UK	April 2013
Gregynog Symposium	UK	September 2013
Leicester University	UK	October 2013