

## LIST OF PUBLICATIONS of Univ.-Prof. Dr. Nuno MAULIDE (May 23, 2014)

### **Independent Career:**

- 1) Juliette Sabbatani, Xueliang Huang, Luís F. Veiros and **Nuno Maulide\***, *Chemistry – A European Journal* **2014**, *accepted*.
- 2) Antonio Misale, Supaporn Niyomchon, Marco Luparia and **Nuno Maulide\***, *Angewandte Chemie* **2014**, *accepted*.
- 3) **Nuno Maulide\***, “Author Profile”, *Angewandte Chemie* **2014**, *Early View*. ([DOI: 10.1002/anie.201402747](https://doi.org/10.1002/anie.201402747) and [10.1002/ange.201402747](https://doi.org/10.1002/ange.201402747))
- 4) Bo Peng, Danny Geerdink, Christophe Farès and **Nuno Maulide\***, “Chemoselective Intermolecular  $\alpha$ -Arylation of Amides”, *Angewandte Chemie* **2014**, *accepted* ([DOI: 10.1002/anie.201402229](https://doi.org/10.1002/anie.201402229) and [10.1002/ange.201402229](https://doi.org/10.1002/ange.201402229)). (Selected as a *VIP –Very Important Paper- article* by the Editorial Team)
- 5) Bo Peng, Xueliang Huang, Lan-Gui Xie and **Nuno Maulide\***, “A Bronsted Acid-Catalyzed Redox Arylation”, *Angewandte Chemie International Edition* **2014**, *Early View* ([DOI:10.1002/anie.201310865](https://doi.org/10.1002/anie.201310865) and [DOI:10.1002/ange.201310865](https://doi.org/10.1002/ange.201310865)). (Selected as a *Hot paper* by the Editorial Team)
- 6) Bo Peng, Danny Geerdink and **Nuno Maulide\***, “Electrophilic Rearrangements of Chiral Amides: a Traceless Asymmetric  $\alpha$ -Allylation”, *Journal of the American Chemical Society* **2013**, *135*, 14968-14971.
- 7) Maria Teresa Oliveira, Marco Luparia, Davide Audisio and **Nuno Maulide\***, “Dual Catalysis made Diastereodivergent”, *Angewandte Chemie International Edition* **2013**, *52*, 13149-13152. *Angewandte Chemie* **2013**, *125*, 13387-13390.
- 8) Bo Peng and **Nuno Maulide\***, “The Redox-Neutral Approach to C-H Functionalisation”, *Chemistry – A European Journal* **2013**, *19*, 13274-13287.
- 9) Saad Shabaan, Bo Peng and **Nuno Maulide\***, “Base-Promoted Internal Redox Cyclization Reactions”, *Synlett* **2013**, *24*, 1722-1724.
- 10) Caroline Souris, Frédéric Frébault, Ashay Patel, Davide Audisio, K. N. Houk and **Nuno Maulide\***, “Stereoselective Synthesis of Dienyl-Carboxylate Building Blocks: Formal Synthesis of Inthomycin C”, *Organic Letters* **2013**, *15*, 3242-3245.
- 11) Supaporn Niyomchon, Davide Audisio, Marco Luparia and **Nuno Maulide\***, “Regio- and Stereoselective Cyclobutene Allylations”, *Organic Letters* **2013**, *15*, 2318-2321.
- 12) Xueliang Huang, Mahendra Patil, Christophe Farès, Walter Thiel and **Nuno Maulide\***, “Sulfur(IV)-Mediated Transformations: From Ylide Transfer to Metal-Free Arylation of Carbonyl Compounds”, *Journal of the American Chemical Society* **2013**, *135*, 7312-7323.
- 13) Caroline Souris, Frédéric Frébault, Davide Audisio, Christophe Farès and **Nuno Maulide\***, “Direct Domino Synthesis of Azidodienoic Acids: Potential Linker Units”, *Synlett* **2013**, *24*, 1286-1290.
- 14) Davide Audisio, Gopinadhanpillai Gopakumar, Lan-Gui Xie, Luís G. Alves, Cornelia Wirtz, Ana M. Martins, Walter Thiel, Christophe Farès and **Nuno Maulide\***, “Palladium-Catalyzed Allylic Substitution at Four Membered Cyclic Systems: Formation of ( $\eta$ )<sup>1</sup>-allyl Complexes and Electrocyclic Ring Opening”, *Angewandte Chemie International Edition* **2013**, *52*, 6313–6316. *Angewandte Chemie* **2013**, *125*, 6434-6438.
- 15) Caroline Souris, Frédéric Frébault, Davide Audisio, Christophe Farès, Richard Goddard and **Nuno Maulide\***, “An Atom-Economical and Stereoselective Domino Synthesis of Functionalised Dienes”, *Chemistry – A European Journal* **2013**, *19*, 6566-6570.
- 16) Maria Teresa Oliveira, Davide Audisio, Supaporn Niyomchon and **Nuno Maulide\***, “Diastereodivergent Processes in Palladium-Catalyzed Allylic Alkylation”, *ChemCatChem* **2013**, *5*, 1239-1247.

- 17) Viviana Valerio, Desislava Petkova, Claire Madelaine and **Nuno Maulide\***, “Direct Room-Temperature Lactonisation of Alcohols and Ethers onto Amides: an “Amide Strategy” for Synthesis”, *Chemistry – A European Journal* **2013**, *19*, 2606-2610.
- 18) Xueliang Huang, Richard Goddard and **Nuno Maulide\***, “Facile carbon-sulfur bond cleavage in diarylsulfonium ylides: a catalytic sulfur-to-silicon group transfer”, *Chemical Communications* **2013**, *49*, 4292-4294. (Invited contribution for the *Emerging Investigators Issue*).
- 19) Xueliang Huang, Sebastian Klimczyk, Luís F. Veiros and **Nuno Maulide\***, “Stereoselective Intramolecular Cyclopropanation through Catalytic Olefin Activation”, *Chemical Science* **2013**, *4*, 1105-1110.
- 20) Bo Peng, Daniel O’Donovan, Igor D. Jurberg and **Nuno Maulide\***, “Dual Nucleophilic/Electrophilic Capture of In-Situ Generated Iminium Ethers: Towards the Synthesis of Functionalized Amide Building Blocks”, *Chemistry – A European Journal* **2012**, *18*, 16292-16296.
- 21) Xueliang Huang, Bo Peng, Marco Luparia, Luis Gomes, Luís F. Veiros and **Nuno Maulide\***, “Gold-Catalysed Synthesis of Furans and Furanones from Sulfur Ylides”, *Angewandte Chemie International Edition* **2012**, *51*, 8886-8890. *Angewandte Chemie* **2012**, *124*, 9016-9020.
- 22) Davide Audisio, Marco Luparia, Maria Teresa Oliveira, Frédéric Frébault, Dina Klütt and **Nuno Maulide\***, “A Diastereodivergent De-epimerisation in Catalytic Asymmetric Allylic Alkylation”, *Angewandte Chemie International Edition* **2012**, *51*, 7314-7317. *Angewandte Chemie* **2012**, *124*, 7426-7429 (Selected as a *Hot paper* by the Editorial Team). Highlighted in: *Synfacts* **2012**, *10*, 1099.
- 23) Sebastian Klimczyk, Xueliang Huang, Christophe Farès and **Nuno Maulide\***, “Sulfoxide-mediated Umpolung of alkali halide salts”, *Organic&Biomolecular Chemistry* **2012**, *10*, 4327-4329. (Selected by the Editorial Team for the *Inside Cover* of its issue).
- 24) Frédéric Frébault and **Nuno Maulide\***, “Total Synthesis and Structural Revision of the Piperarborenines: When Photochemistry Meets C-H Activation”, *Angewandte Chemie International Edition* **2012**, *51*, 2815-2817. *Angewandte Chemie* **2012**, *124*, 2869-2871.
- 25) Igor Dias Jurberg, Bo Peng, Eckhard Wöstefeld, Maximilian Wasserloos and **Nuno Maulide\***, “Intramolecular Redox-Triggered C-H Functionalisation”, *Angewandte Chemie International Edition* **2012**, *51*, 1950-1953. *Angewandte Chemie* **2012**, *124*, 1986-1989 (Selected as a *Hot paper* by the Editorial Team).
- 26) Xueliang Huang, Sebastian Klimczyk and **Nuno Maulide\***, “Charge-Accelerated Sulfonium [3,3]-Sigmatropic Rearrangements”, *Synthesis* **2012**, 175-183.
- 27) Marco Luparia, Maria Teresa Oliveira, Davide Audisio, Frédéric Frébault and **Nuno Maulide\***, “Catalytic Asymmetric Diastereodivergent Deracemisation”, *Angewandte Chemie International Edition* **2011**, *50*, 12631-12635. *Angewandte Chemie* **2011**, *123*, 12840-12844. Highlighted in: *Nature Chemistry* **2012**, *4*, 4. Highlighted in: *Synfacts* **2012**, *3*, 298.
- 28) Claire Madelaine, Viviana Valerio and **Nuno Maulide\***, “Keteniminium Salts: More Than the Nitrogen Analogues of Ketenes”, *Chemistry – An Asian Journal* **2011**, *6*, 2224-2239.
- 29) Xueliang Huang and **Nuno Maulide\***, “Sulfoxide Mediated  $\alpha$ -Arylation of Carbonyl Compounds”, *Journal of the American Chemical Society* **2011**, *133*, 8510-8513.
- 30) Viviana Valerio, Claire Madelaine and **Nuno Maulide\***, “Steering Reaction Pathways: From Benzyl Claisen Rearrangements to Powerful Ionic Shifts”, *Chemistry – A European Journal* **2011**, *17*, 4742-4745.
- 31) Marco Luparia, Davide Audisio and **Nuno Maulide\***, “Palladium-Catalysed Synthesis of Stereodefined Cyclobutenes”, *Synlett* **2011**, 735-740.

- 32) Frédéric Frébault, Maria Teresa Oliveira, Eckhard Wöstefeld and **Nuno Maulide\***, “A Concise Synthesis of 2-Pyrones”, *The Journal of Organic Chemistry* **2010**, 75, 7962-7965.
- 33) **Nuno Maulide\***, “A Feast and a Reflection on Organocatalysis – Notes from the ISOμ in Mülheim”, *European Journal of Organic Chemistry* **2010**, 34, 6491-6493.
- 34) Xueliang Huang, Richard Goddard and **Nuno Maulide\***, “A Direct Ylide-Transfer to Carbonyl Derivatives and Heteroaromatic Compounds”, *Angewandte Chemie International Edition* **2010**, 49, 8979-8983. *Angewandte Chemie* **2010**, 122, 9163-9167.
- 35) Sónia Barroso, Ana M. Abreu, Ana C. Araújo, Ana M. Coelho, **Nuno Maulide\*** and Ana M. Martins\*, “Three-component Mannich couplings en route to substituted aminophenol and benzoxazine derivatives”, *Synlett* **2010**, 16, 2425-2428.
- 36) Frédéric Frébault, Marco Luparia, Maria Teresa Oliveira, Richard Goddard and **Nuno Maulide\***, “A Versatile and Stereoselective Synthesis of Functionalised Cyclobutenes”, *Angewandte Chemie International Edition* **2010**, 49, 5672-5676. *Angewandte Chemie* **2010**, 122, 5807-5811. Highlighted in the “**Update 2010**” of *Nachrichten aus der Chemie*.
- 37) Claire Madelaine, Viviana Valerio and **Nuno Maulide\***, “Unexpected Electrophilic Rearrangements of Amides: a Stereoselective Entry to Challengingly Substituted Lactones”, *Angewandte Chemie International Edition* **2010**, 49, 1583-1586. *Angewandte Chemie* **2010**, 122, 1628-1631.

#### **Post-Doctoral Work:**

- 38) Barry M. Trost\*, **Nuno Maulide** and Michael T. Rudd, “Ruthenium-Catalyzed Cross-Coupling of Tertiary Propargyl Alcohols with ω-Alkynenitriles: a Regio- and Stereoselective Surrogate for an Aldol Condensation”, *Journal of the American Chemical Society* **2009**, 131, 420-421.
- 39) Barry M. Trost\*, Jia Xie and **Nuno Maulide**, “Stereoselective, Dual-Mode Ruthenium-Catalyzed Ring-Expansion of Alkynylcyclopropanols”, *Journal of the American Chemical Society* **2008**, 130, 17258-17259.
- 40) Barry M. Trost\*, **Nuno Maulide** and Robert C. Livingston, “A Ruthenium-Catalyzed, Atom-Economical Synthesis of Nitrogen Heterocycles”, *Journal of the American Chemical Society* **2008**, 130, 16502-16503.

#### **Undergraduate and Graduate Work:**

- 41) Rui F. Munhá, Luís G. Alves, **Nuno Maulide**, M. Teresa Duarte, István E. Markó, Michael D. Fryzuk and Ana M. Martins\*, “trans-Disubstituted diamido/diamine cyclam zirconium complexes”, *Inorganic Chemistry Communications* **2008**, 11, 1174-1178.
- 42) **Nuno Maulide**, Jean-Christophe Vanherck, Arnaud Gautier and István E. Markó\*, “Mild and Neutral Deprotections Catalyzed by Cerium(IV) Ammonium Nitrate”, *Accounts of Chemical Research* **2007**, 40, 381-392.
- 43) **Nuno Maulide** and István E. Markó\*, “Synthesis and ring-expansions of functionalised spirocyclobutanones”, *Organic Letters* **2007**, 9, 3757-3760.
- 44) Jyh-Hsiung Liao, **Nuno Maulide**, Benoît Augustyns and István E. Markó\*, “Tandem radical rearrangement / Pd-catalysed translocation of bicyclo[2.2.2]lactones. An efficient access to the oxa-triquinane core structure”, *Organic & Biomolecular Chemistry* **2006**, 4, 1464-1467.
- 45) **Nuno Maulide** and István E. Markó\*, “2-(Trimethylsilyloxy)furan as a Dianion Equivalent: a Two-Step Synthesis of Functionalised Spirocyclic Butenolides”, *Organic Letters* **2006**, 8, 3705-3707.

- 46) **Nuno Maulide** and István E. Markó\*, “Stereoselective synthesis of bicyclic lactones by annelation with functionalised orthoesters”, *Chemical Communications* **2006**, *11*, 1200-1202 (**Hot article**).
- 47) **Nuno Maulide** and István E. Markó\*, “Cerium(IV) Ammonium Nitrate (CAN) catalyzed highly chemoselective deprotection of ketals and THP ethers in the presence of enol triflates”, *Synlett* **2005**, *14*, 2195-2198.
- 48) Benoît Augustyns, **Nuno Maulide** and István E. Markó\*, “Skeletal rearrangements of bicyclo[2.2.2]lactones: a short and efficient route towards Corey’s Lactone”, *Tetrahedron Letters* **2005**, *46*, 3895-3899.
- 49) Nicolas Heures, Mélanie Marchant, **Nuno Maulide**, Guillaume Berthon-Gelloz, Christophe Hermans, Sébastien Hermant, Eleonóra Kiss, Bernard Leroy, Pierre Wasnaire and István E. Markó\*, “Preparation and applications of a novel bis(tributylstannyl)cyclopropane: a synthetic equivalent of a cyclopropane-1,2-dianion”, *Tetrahedron Letters* **2005**, *46*, 79-83.
- 50) **Nuno Maulide**, Jean-Christophe Vanherck and István E. Markó\*, “Connective synthesis of spirovetivanes: Total Synthesis of (±)-Agarospirol, (±)-Hinesol and (±)- $\alpha$ -Vetispirene”, *European Journal of Organic Chemistry* **2004**, *19*, 3962-3967.