

Production Scientifique

Chapitres de Livre

1. V. Coeffard, P. J. Guiry. *Cyclic Alkenes as Reaction Components* dans Cross-Coupling and Heck-Type Reactions 3, *Science of Synthesis*, Larhed, M. Ed.; Georg Thieme Verlag KG **2013**.
2. V. Coeffard, C. Greck, X. Moreau, C. Thomassigny. *Stereoselective Synthesis of Acyclic Derivatives* dans Stereoselective Multiple Bond-Forming Transformations in Organic Synthesis, Rodriguez, J., Bonne, D. Eds; Wiley-VCH **2015**.
3. V. Coeffard, C. Greck, X. Moreau, C. Thomassigny. *Other Amino Acids as Asymmetric Organocatalysts* dans Sustainable Catalysis: Without Metals or Other Endangered Elements, North, M. Ed.; RSC **2016**.

Publications

1. Diastereoselective Synthesis of Chiral α -Aminoorganotributyltins *via* Ring-Opening of 2-Tributylstannyloxazolidines. V. Coeffard, J.-C. Cintrat, E. Le Grogneq, I. Beaudet, J.-P. Quintard, *J. Organomet. Chem.* **2006**, *691*, 1488-1497.
2. Precursors of Chiral α -Amino Anions: an Improved Synthesis of Chiral *N*-(α -Tributylstannyloxy)oxazolidin-2-ones Derived from (*R*) or (*S*)-Phenylglycinol. V. Coeffard, E. Le Grogneq, I. Beaudet, M. Lepeltier, V. Léat-Crest, J.-P. Quintard, *Synthesis* **2006**, *24*, 4151-4158.
3. Copper (I) Iodide. V. Coeffard, *Synlett* **2007**, *15*, 2456-2457.
4. Mild Electrochemical Deprotection of *N*-Phenylsulfonyl *N*-Substituted Amines Derived from (*R*)-Phenylglycinol. V. Coeffard, C. Thobie-Gautier, I. Beaudet, E. Le Grogneq, J.-P. Quintard, *Eur. J. Org. Chem.* **2008**, 383-391.
5. Preparation and Transmetalation of Enantioenriched α -Aminoorganostannanes Derived from *N*-Boc Phenylglycinol : Application to the Synthesis of Alafosfalin. V. Coeffard, I. Beaudet, M. Evain, E. Le Grogneq, J.-P. Quintard, *Eur. J. Org. Chem.* **2008**, 3344-3351.
6. The Synthesis of New Oxazoline-Containing Bifunctional Catalysts and their Application in the Addition of Diethylzinc to Aldehydes. V. Coeffard, H. Müller-Bunz, P. J. Guiry, *Org. Biomol. Chem.* **2009**, *7*, 1723-1734.
7. First Regio- and Enantioselective Chromium-Catalyzed Homoallenylolation of Aldehydes. V. Coeffard, M. Aylward, P. J. Guiry, *Angew. Chem. Int. Ed.* **2009**, *48*, 9152-9155.
8. Synthesis of Highly Enantioenriched Chiral α -Aminoorganotin *via* Diastereoselective Ring-Opening of Chiral *N*-(arenesulfonyl) 2-Tributylstannyloxazolidines. V. Coeffard, E. Le Grogneq, I. Beaudet, M. Evain, J.-P. Quintard, *J. Org. Chem.* **2009**, *74*, 5822-5838.

9. Recent Advances in Ligand Design for the Intermolecular Asymmetric Mizoroki-Heck Reaction. V. Coeffard, P. J. Guiry, *Curr. Org. Chem.* **2010**, *14*, 212-229.
10. An Efficient and Scalable Synthesis of N-(benzyloxycarbonyl)- and N-(methyloxycarbonyl)-(S)-Vinylglycinol. A. Lumbroso, V. Coeffard, E. Le Grogneq, I. Beaudet, J.-P. Quintard, *Tetrahedron Lett.* **2010**, *24*, 3226-3228.
11. Preparation of Enantiomerically Enriched α -Aminoorganostannanes and their Applications in Stereoselective Synthesis. V. Coeffard, I. Beaudet, E. Le Grogneq, J.-P. Quintard, *Chirality* **2010**, *22*, 864-869.
12. Palladium-Catalyzed Three-Component Transformation of Homoallenols: A Regio- and Stereoselective Route to 1,5-Amino Alcohols. M. Aylward, V. Coeffard, P. J. Guiry, *J. Org. Chem.* **2011**, *76*, 3536-3538.
13. Primary Amine Catalyzed Electrophilic Amination of α,α -Disubstituted Aldehydes. A. Desmarchelier, H. Yalgin, V. Coeffard, X. Moreau, C. Greck, *Tetrahedron Lett.* **2011**, *52*, 4430-4432.
14. Stereoselective Organocatalytic One-Pot α,α -Bifunctionalization of Acetaldehyde by a Tandem Mannich Reaction/Electrophilic Amination. V. Coeffard, A. Desmarchelier, B. Morel, X. Moreau, C. Greck, *Org. Lett.* **2011**, *13*, 5778-5781.
15. Electrochemical Cleavage of Sulfonamides: An Efficient and Tunable Strategy to Prevent β -Fragmentation and Epimerization. P. Viaud, V. Coeffard, C. Thobie-Gautier, I. Beaudet, N. Galland, J.-P. Quintard, E. Le Grogneq, *Org. Lett.* **2012**, *14*, 942-945.
16. Enantioselective Organocatalytic One-Pot Amination/aza-Michael/Aldol Condensation Reaction Sequence: Synthesis of 3-Pyrrolines with a Quaternary Stereocenter. A. Desmarchelier, **V. Coeffard,*** **X. Moreau,*** C. Greck, *Chem. Eur. J.* **2012**, *18*, 13222-13225.
17. Synthesis of Enantioenriched Aza-Proline Derivatives through Gold(I)-Catalyzed Cyclization of Chiral α -Hydrazino Esters. S. Bouvet, X. Moreau, **V. Coeffard,*** **C. Greck,*** *J. Org. Chem.* **2013**, *78*, 427-437.
18. Transition-Metal-Free Amination of Aryl boronic Acids and Their Derivatives. V. Coeffard, C. Thomassigny, X. Moreau, C. Greck, *Angew. Chem. Int. Ed.* **2013**, *52*, 5684-5686.
19. Merging Oxidative Dearomatization and Aminocatalysis: One-Pot Enantioselective Synthesis of Tricyclic Architectures. F. Portalier, F. Bourdreux, J. Marrot, X. Moreau, **V. Coeffard,*** **C. Greck,*** *Org. Lett.* **2013**, *15*, 5642-5645.
20. Asymmetric Organocatalytic Functionalization of α,α -Disubstituted Aldehydes through Enamine Activation. A. Desmarchelier, V. Coeffard, X. Moreau, C. Greck, *Tetrahedron* **2014**, *70*, 2491-2513.

21. Solvent- and Catalyst-Free Synthesis of Nitrogen-Containing Bicycles through Hemiaminal Formation/ Diastereoselective Hetero Diels-Alder Reaction with Diazenes. L. Crouillebois, L. Pantaine, **V. Coeffard**,* **X. Moreau**,* C. Greck, *J. Org. Chem.* **2015**, *80*, 595-601.
22. Hypervalent Iodine-Mediated Synthesis of Benzoxazoles and Benzimidazoles via an Oxidative Rearrangement. X. Zhang, R. Huang, J. Marrot, **V. Coeffard**,* **Y. Xiong**,* *Tetrahedron* **2015**, *71*, 700-708.
23. One-Pot Enantioselective Synthesis of 1,4-Naphthoquinone-Derived Polycycles through Oxidative Dearomatization and Aminocatalysis. L. Pantaine, **V. Coeffard**,* X. Moreau, **C. Greck**,* *Eur. J. Org. Chem.* **2015**, 2005-2011.
24. Enantioselective Desymmetrization of *para*-Quinamines through an Aminocatalyzed Aza-Michael/Cyclization Cascade Reaction. L. Pantaine, **V. Coeffard**,* X. Moreau, **C. Greck**,* *Org. Lett.* **2015**, *17*, 3674-3677.
25. Aminocatalyzed Cascade Synthesis of Enantioenriched 1,7-Annulated Indoles from Indole-7-Carbaldehyde Derivatives and α,β -Unsaturated Aldehydes. M. Giardinetti, **X. Moreau**,* **V. Coeffard**,* C. Greck, *Adv. Synth. Catal.* **2015**, *357*, 3501-3506.
26. Construction of Enantioenriched Polysubstituted Hexahydropyridazines via a Sequential Multicatalytic Process Merging Palladium Catalysis and Aminocatalysis. A. S. Marques, M. Giardinetti, J. Marrot, **V. Coeffard**,* **X. Moreau**,* C. Greck, *Org. Biomol. Chem.* **2016**, *14*, 2828-2832.
27. Site-Selective Calcium-Catalyzed/Organocatalyzed Condensation of Propargyl Alcohols Tethered to β -Keto Esters. S. P. Morcillo, M. Passet, S. Floquet, V. Coeffard, C. Greck, C. Bour, V. Gandon, *Eur. J. Org. Chem.* **2016**, 2688-2694.
28. The Impact of Asymmetric Organocatalysis in Dearomatization and Aromatization of Carbocycles: Increasing Molecular Complexity and Diversity. L. Pantaine, X. Moreau, **V. Coeffard**,* C. Greck, *Tetrahedron Lett.* **2016**, *57*, 2567-2574.
29. Chiral C_2 -Symmetric Iodoarene-Catalyzed Asymmetric α -Oxidation of β -Keto Esters. Y. Feng, R. Huang, L. Hu, **Y. Xiong**,* **V. Coeffard**,* *Synthesis* **2016**, *48*, 2637-2644.
30. Efficient Synthesis of Unsymmetrical Sulfamides via a Lossen-Like Rearrangement. L. Pantaine, F. Richard, J. Marrot, **X. Moreau**,* **V. Coeffard**,* C. Greck, *Adv. Synth. Catal.* **2016**, *358*, 2012-2016.
31. Asymmetric Synthesis of Fused Polycyclic Indazoles through Aminocatalyzed Aza-Michael Addition/Intramolecular Cyclization. M. Giardinetti, J. Marrot, **X. Moreau**,* **V. Coeffard**,* C. Greck, *J. Org. Chem.* **2016**, *81*, 6855-6861.

- 32.** Stereoselective Synthesis of Stannylated Dehydropiperidines and Dehydroazepanes. A. Lumbroso, V. Coeffard, D. Gatineau, S. Stecko, I. Beaudet, J.-P. Quintard, E. Le Grogneq, *Eur. J. Org. Chem.* **2016**, 5146-5159.
- 33.** Iron-Mediated Domino Interrupted Iso-Nazarov/Dearomative (3 + 2)-Cycloaddition of Electrophilic Indoles. A.-S. Marques, V. Coeffard, I. Chataigner, G. Vincent, X. Moreau, *Org. Lett.* **2016**, *18*, 5296-5299.
- 34.** Stereoselective Multibond-Forming Process towards Functionalized Sulfamide-Containing Polycycles. L. Pantaine, A. Laverny, X. Moreau, **V. Coeffard**,* **C. Greck**,* *Synthesis* **2017**, *49*, 532-538.
- 35.** Synthesis and Characterizations of Keplerate Nanocapsules Incorporating L- and D-Tartrate Ligands. M. Awada, S. Floquet, J. Marrot, M. Haouas, S. P. Morcillo, C. Bour, V. Gandon, V. Coeffard, C. Greck, E. Cadot, *J. Clust. Sci.* **2017**, *28*, 799-812.
- 36.** Sulfamide Chemistry Applied to the Functionalization of Self-Assembled Monolayers on Gold Surfaces. L. Pantaine, V. Humblot, **V. Coeffard**,* **A. Vallée**,* *Beilstein J. Org. Chem.* **2017**, *13*, 648-658.
- 37.** Synthesis and Fluorosolvatochromic Properties of 1,7-Annulated Indoles. M. Giardinetti, J. Marrot, **V. Coeffard**,* **X. Moreau**,* C. Greck, *New. J. Chem.* **2017**, *41*, 7331-7338.
- 38.** Application of a One-Pot Friedel-Crafts Alkylation/Michael Addition Methodology to the Asymmetric Synthesis of Ergoline Derivatives. C. Despotopoulou, S. McKeon, R. Connon, V. Coeffard, H. Müller-Bunz, P. J. Guiry, *Eur. J. Org. Chem.* **2017**, accepted.
- 39.** Functionalization of Mo132 Keplerate Nanocapsules by Cyclic Carboxylates: L-Proline vs Cyclopentanecarboxylate. *Curr. Inorg. Chem.* **2017**, accepted.