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Institut Lavoisier de Versailles

PUBLICATIONS CATALYSIS AND HETEROCYCLES

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2026

J. God--Carles, F. Bourdreux, A. Damond, J. Marrot, X. Moreau, C. Ghiazza
Photochemical Synthesis of 1,2-Diazepine-Fused -Lactams via Staudinger-Type [2 + 2] Cyclization
Org. Lett. **2026**, *28*, 3770
10.1021/acs.orglett.6c00470

C. Jbilou, P. De Bonfils, Y.-H. Cho, G. Gunther, A. Planchat, X. Moreau, S. Pascal, D. Jacquemin, P. Nun, V. Coeffard
Synthesis and Photophysical Properties of Push-Pull Type Pyrroloquinolone

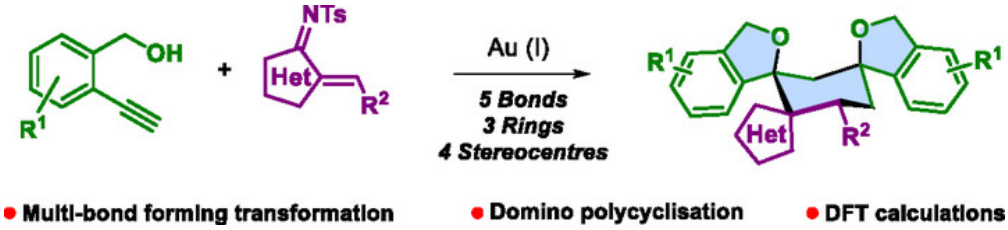
Fluorescent Dyes
J. Org. Chem. **2026**, *91*, 53
10.1021/acs.joc.5c01586

2025

M. Genet, J. Marrot, I. Chataigner, X. Moreau

Gold(I)-Catalysed Domino Cyclization for the Construction of Trispirocyclic Cyclohexanes

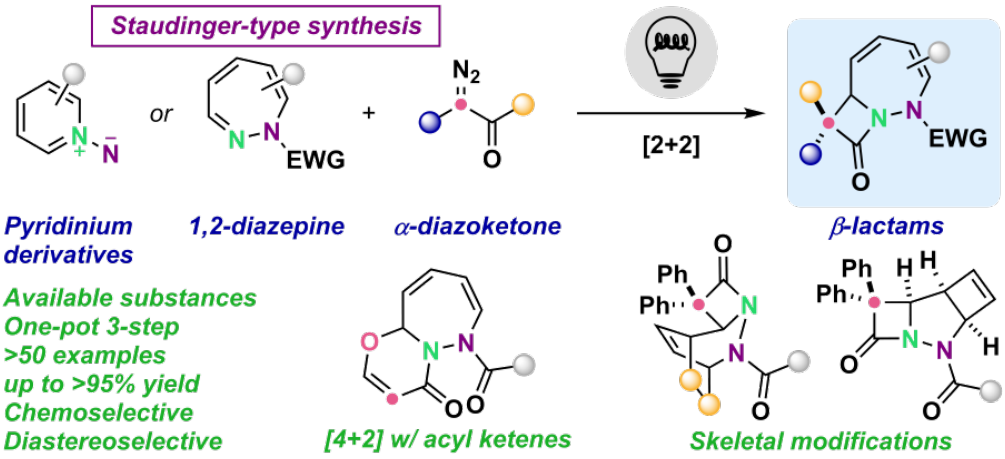
ChemistryEurope **2025**, e202500362
DOI: 10.1002/ceur.202500362



J. God--Carles, F. Bourdreux, A. Damond, J. Marrot, X. Moreau, C. Ghiazza

Synthesis of unique 1,2-diazepine-fused -lactams *via* Staudinger-type [2+2] cyclization

ChemRxiv. **2025**
DOI:10.26434/chemrxiv-2025-g5lrr

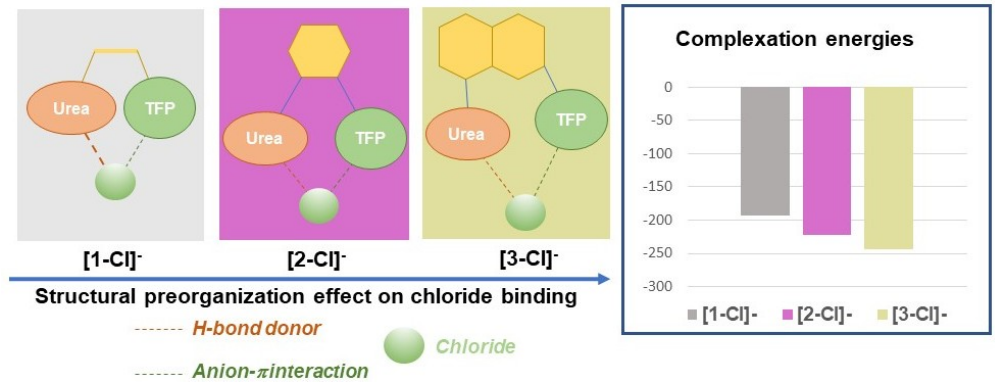


O. Zayene, J. Hu, A. Gaucher, R. Plais, M. Barday, X. Moreau, J.-Y. Salpin, D. Prim

Anion- Meets H-Bonding: Tuning Synergy Through the Flexibility-to-preorganization Transition in Anion Receptor Design

ChemPhysChem, **2025**, *26*, e202500378

DOI: 10.1002/cphc.202500378

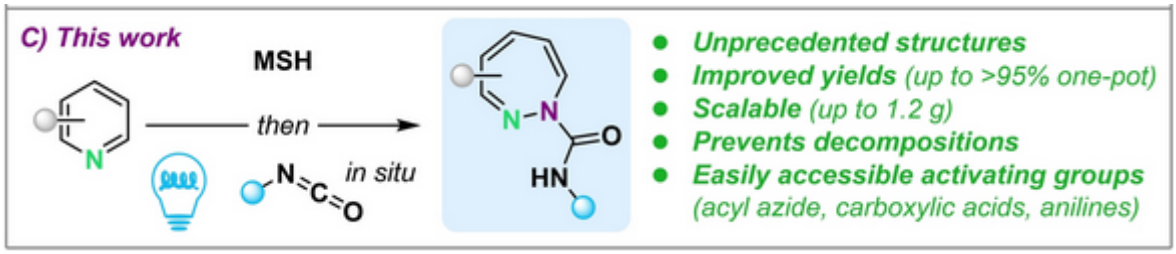


C. Ghiazza, A. Damond, J. Marrot, X. Moreau

Improving the Photochemical Skeletal Enlargement of Pyridines to 1,2-Diazepines with Isocyanates

Adv. Synth. Catal. **2025**, *5*, e20241201

DOI: 10.1002/adsc.202401201



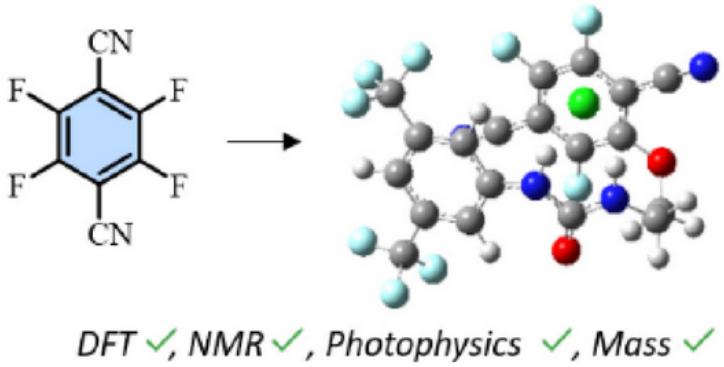
2024

O. Zayene, R. Plais, L. Rolhion, F. Bourdreux, G. Pieters, A. Gaucher, G. Clavier, A. Cœuret, J. Salpin, D. Prim

Tetrafluoroterephthalonitrile as an anion- donor: theoretical evaluation and application to anion recognition

Chemistryselect **2024**, 9, e202302763

10.1002/slct.202302763



H. G. L. de Sousa, D. Prim, F. Bourdreux, L. F. Gil

Synthesis and application of a new chitosan derivative for adsorption of Cu(II) and oxyanions of Cr(VI) from aqueous solution

J. Env Eng and Sci **2024**, *19*, 223

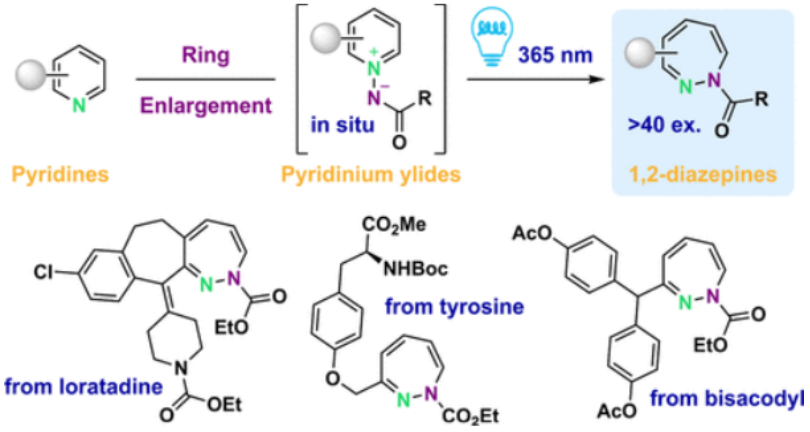
DOI : 10.1680/jenes.23.00010

E. Boudry, F. Bourdreux, J. Marrot, X. Moreau, C. Ghiazza

Dearomatization of Pyridines: Photochemical Skeletal Enlargement for the Synthesis of 1,2-Diazepines

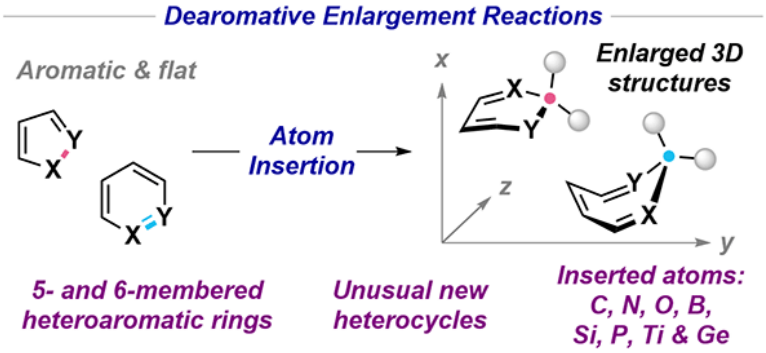
J. Am. Chem. Soc. **2024**, 146, 2845

10.1021/jacs.3c14467

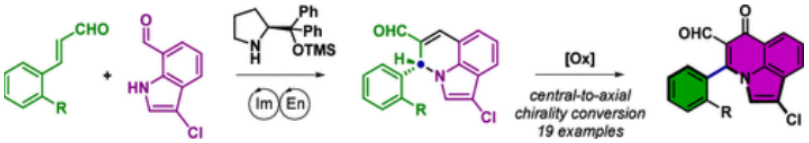


X. Moreau, C. Ghiazza

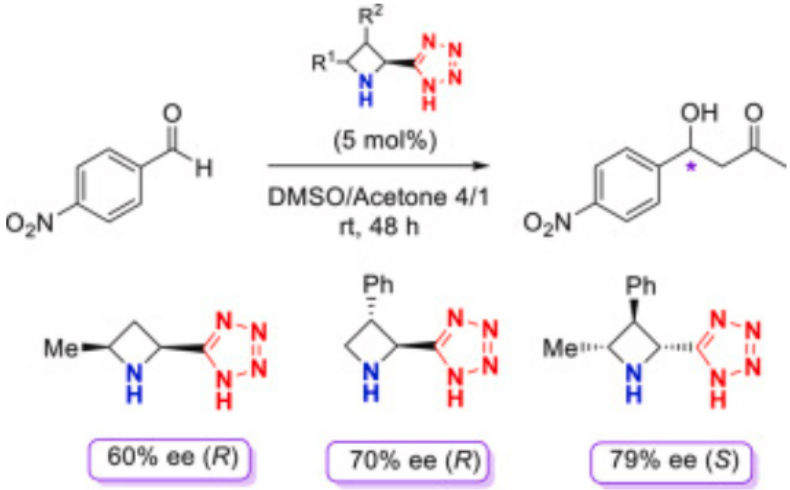
Modern Dearomative Enlargement of Heteroaromatic Rings
Synthesis **2024**, 56, 3119
10.1055/a-2335-8799



T. Khlifi, C. Jbilou, A. Leblais, J. Marrot, P. Nun, C. Ghiazza, I. Chataigner, V. Coeffard **,** X. Moreau
Atroposelective Construction of Axially Chiral 2-Aryl-Pyrroloquinolones
Org. Lett. **2024**, 26, 6725
10.1021/acs.orglett.4c02366



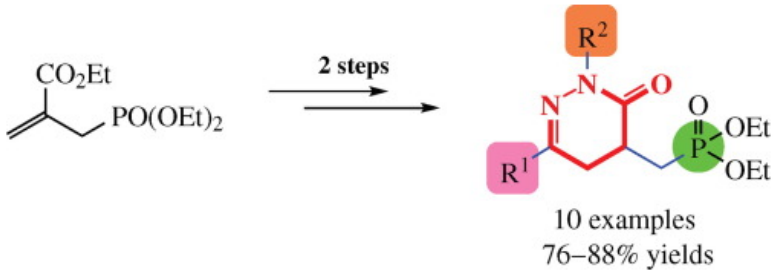
J. Alhoussein, J. Marrot, K. Wright*, F. Couty†, X. Moreau, B. Drouillat
Synthesis of 2-tetrazolyl azetidines and their evaluation in organocatalysis
Tetrahedron **2024**, 158, 134002
10.1016/j.tet.2024.134002



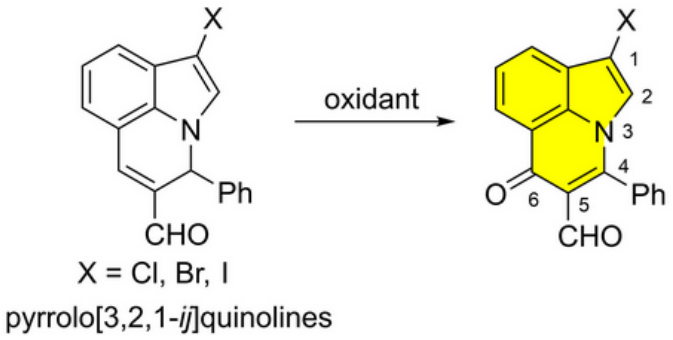
2023
S. Azzouni, A. Gaucher, S. Hassen, Y. Arfaoui, J. Marrot, D. Prim, M. L. Efrit
From Phosphonic Acid to O-P Heterocycles Using MW An Access to [5]-, [6]- and [8]-Membered Annelated Phosphinates

Chem. Africa **2023**, *7*, 1187
10.1007/s42250-023-00816-y

O. Bejaoui, A. Abdelli, H. M'rabet, X. Moreau, M. L. Efrit, D. Prim
A convenient synthesis of new phosphonomethyl-containing 4,5-dihydropyridazin-3(2H)-ones
Mendeleev Commun. **2023**, *33*, 640
10.1016/j.mencom.2023.09.016

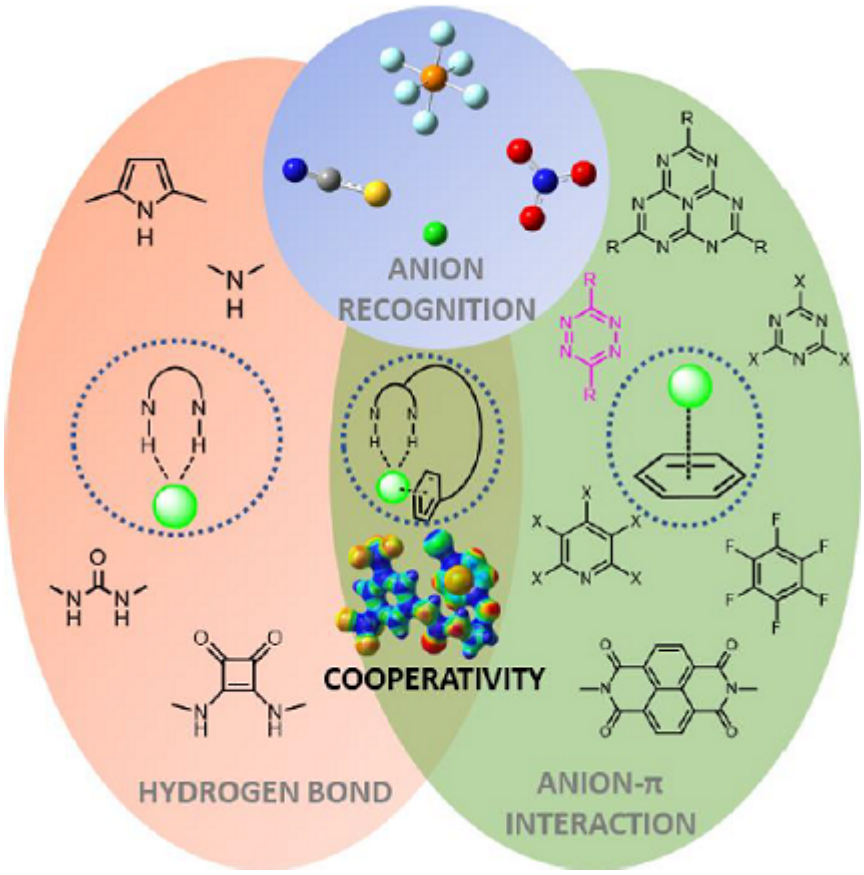


P. De Bonfils, C. Sandoval-Altamirano, X. Moreau, P. Nun, A. D. Laurent, G. Gunther, V. Coeffard
Synthesis and Photophysical Characterizations of Pyrroloquinolone Photosensitizers for Singlet Oxygen Production
Photochem. Photobiol. **2023**, *99*, 642
10.1111/php.13681



2022

R. Plais, G. Clavier, J.-Y. Salpin, A. Gaucher, D. Prim
Anion- Interaction for Molecular Recognition of Anions : Focus on Cooperativity with Hydrogen Bonding
Eur. J. Org. Chem. **2022**, e202201281.
DOI : 10.1002/ejoc.202201281

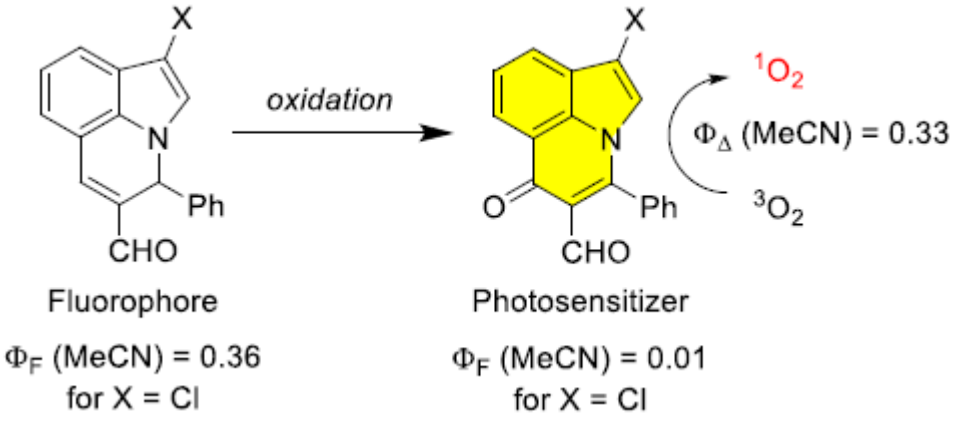


P. De Bonfils, C.Sandoval-Altamirano, X. Moreau, P. Nun, A. Laurent, G. Gunther, V. Coeffard

Synthesis and Photophysical Characterizations of Pyrroloquinolone Photosensitizers for Singlet Oxygen Production

Photochem. Photobiol. 2022, online

DOI : 10.1111/php.13681

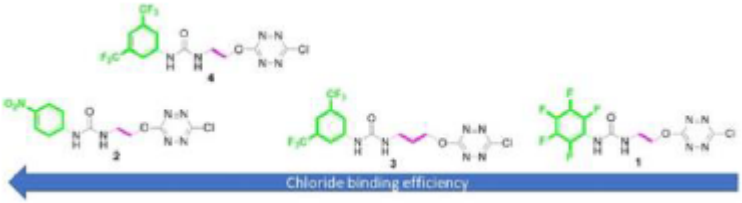


R. Plais, G. Gouarin, A. Bournier, O. Zayene, V. Mussard, F. Bourdreux, J. Marrot, A. Brosseau, A. Gaucher, G. Clavier, J.-Y. Salpin, D. Prim

Chloride Binding Modulated by Anion Receptors Bearing Tetrazine and Urea

ChemPhysChem **2022**, *23*, e202200524.

DOI: 10.1002/cphc.202200524

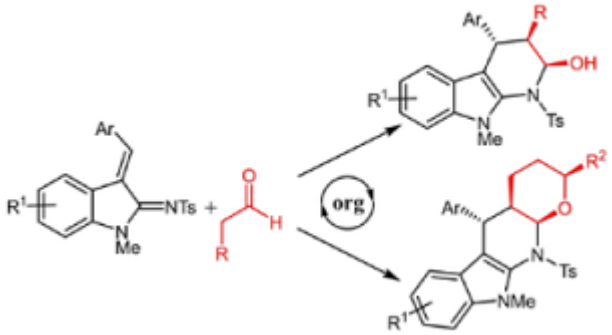


M. Genet, A. Takfaoui, J. Marrot, C. Greck, X. Moreau.

Organocatalyzed Synthesis of Tetrahydro-alpha-Carboline Derivatives Bearing N,O-Acetals

Eur J. Org. Chem. **2022**, *44*, e202201154

DOI: 10.1002/ejoc.202201154

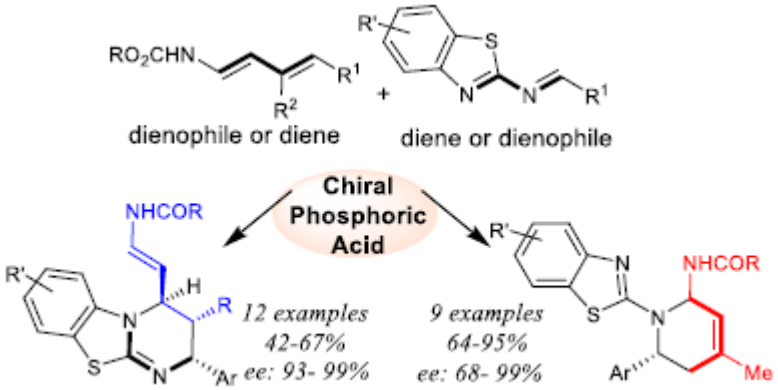


W. Ma, E. Montinho-Inacio, B. Iorga, P. Retailleau, X. Moreau, L. Neuville, G. Masson

Chiral Phosphoric Acid-Catalyzed Enantioselective Formal [4+2] Cycloaddition Between Dienecarbamates and 2-Benzothioazolimines

Adv. Synth. Cat. **2022**, *364*, 1708

DOI: 10.1002/adsc.202200161



A. Abdelli, O. Bejaoui, H. Bougatef, S. Ouni, A. Sila, H. M'rabet, X. Moreau, M. L. Efrit, D. Prim.

Synthesis and evaluation of new phosphonated -lactam and glutarimide derivatives as angiotensin converting enzyme inhibitors

J. Heterocyclic. Chem. **2022**, online.

DOI:10.1002/jhet.4566.

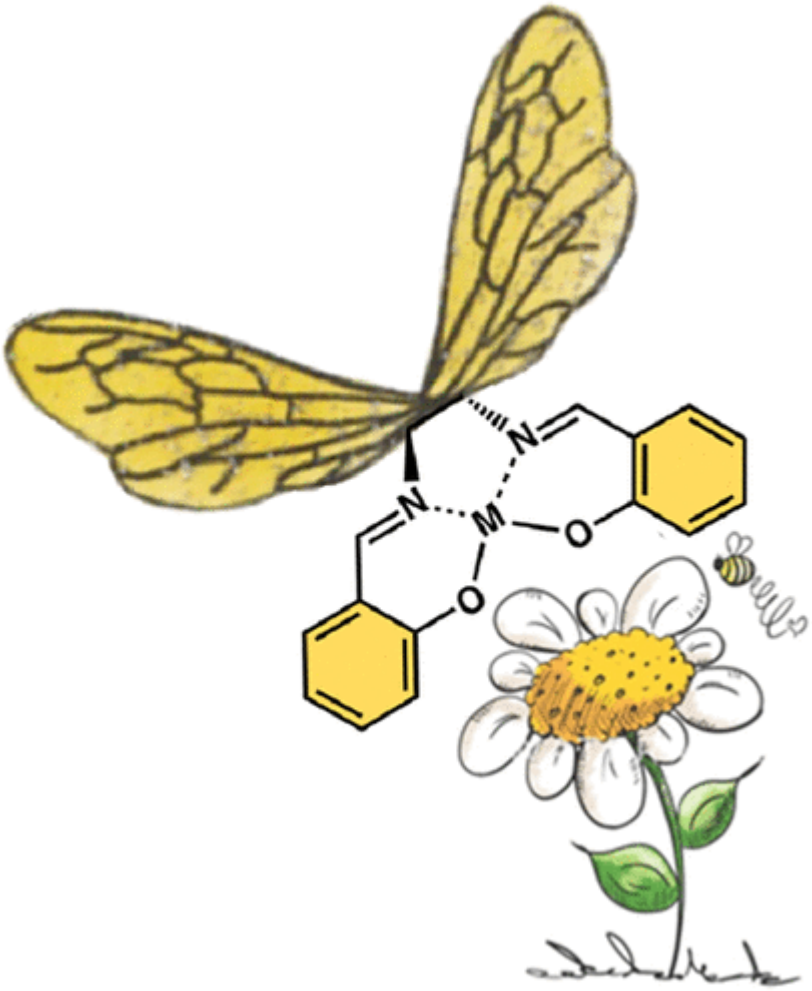


Y.-C. Yuan, M. Mellah, E. Schulz, O.R.P. David

Making Chiral Salen Complexes Work with Organocatalysts

Chem. Rev. **2022**, *122*, 8841

DOI:10.1021/acs.chemrev.1c00912

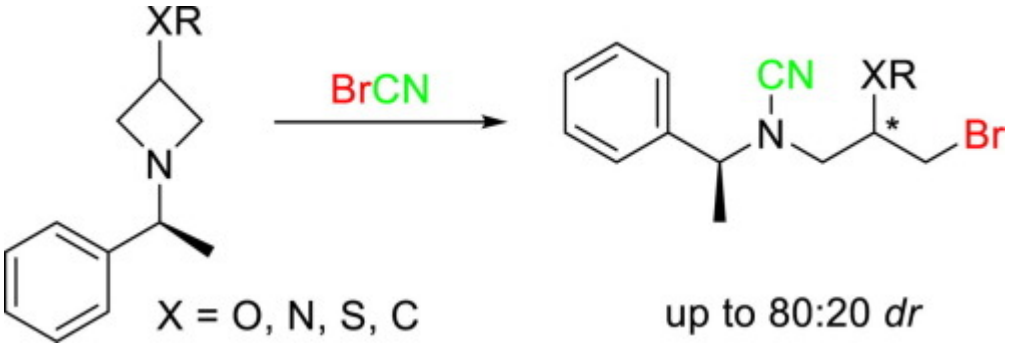


M. Raulin, B. Drouillat, J. Marrot, F. Couty, K. Wright

Diastereoselective ring cleavage of azetidines with cyanogen bromide

Tetrahedron Lett. **2022**, *94*, 153710

DOI: 10.1016/j.tetlet.2022.153710

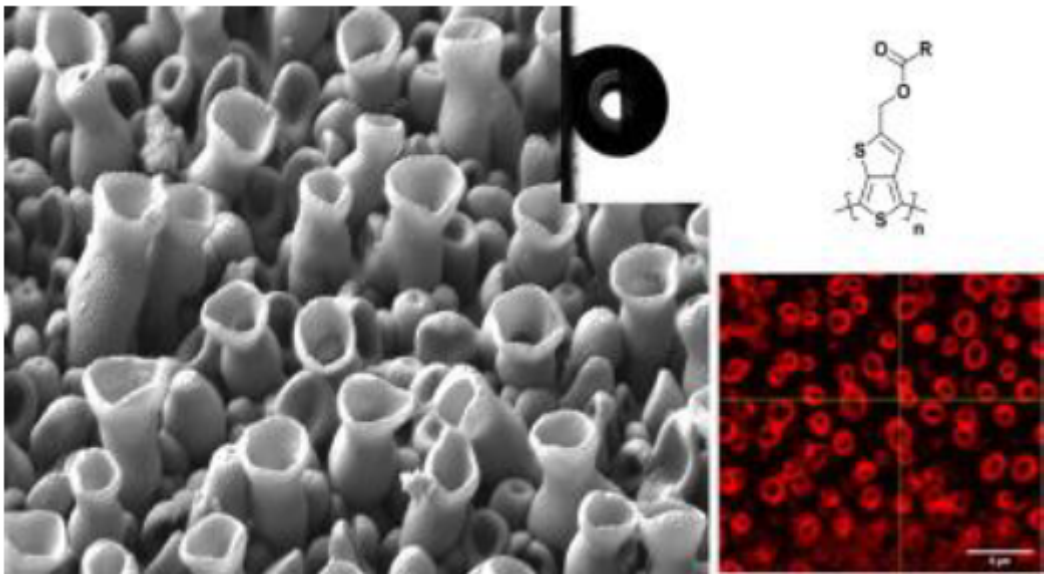


A. Sathanikan, G. Ceccone, J. Bañuls-Ciscar, M. Pan, F. Kamal, T. Bsaibess, A. Gaucher, D. Prim, R. Méallet-Renault, P. Colpo, S. Amigoni, F. Guittard, T. Darmanin

A bioinspired approach to fabricate fluorescent nanotubes with strong water adhesion by soft template electropolymerization and post-grafting

J. Colloid Int. Sci. **2022**, *606*, 236.

DOI : 10.1016/j.jcis.2021.08.013

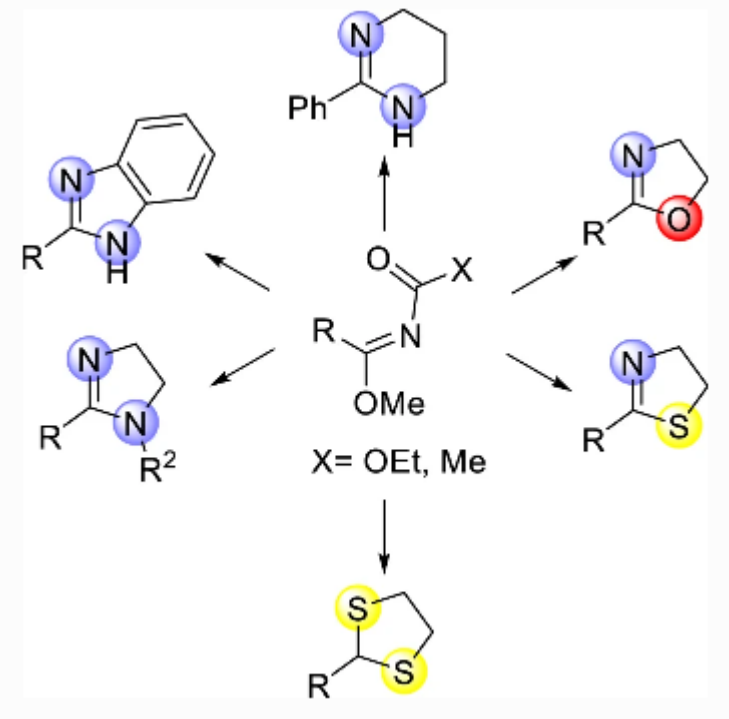


S. Ouni, A Abdelli, A. Gaucher, Y. Arfaoui, D. Prim, M. L. Efrit

On the Reactivity of N-Substituted Imidates Towards 1,4-Bisnucleophiles: An Experimental and Theoretical Study

Chemistry Africa **2022**, *5*, 1265.

DOI: 10.1007/s42250-022-00452-y

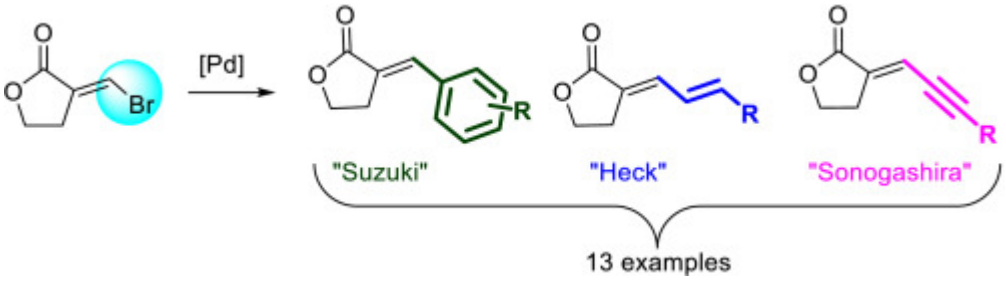


A. Talbi, A. Arfaoui, A. Gaucher, M. L. Efrit, H. M'Rabet, D. Prim

Palladium-Catalyzed Functionalization of -Methylene Butanolides

Tetrahedron **2022**, *122*, 132926.

DOI:10.1016/j.tet.2022.132926

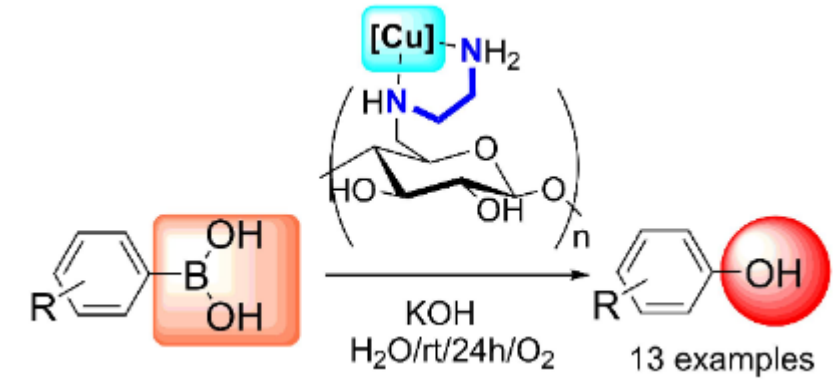


F. Guimarães Torres, F. Simões Teodoro, L.V.A. Gurgel, F. Bourdreux, O. Zayene, A. Gaucher, L. F. Gil, D. Prim

Application of natural and chemically modified biomasses to heterogeneous Cu-catalysed conversion of aryl boronic acids to phenols derivatives

Catalysts **2022**, *12*, 92.

DOI: 10.3390/catal12010092

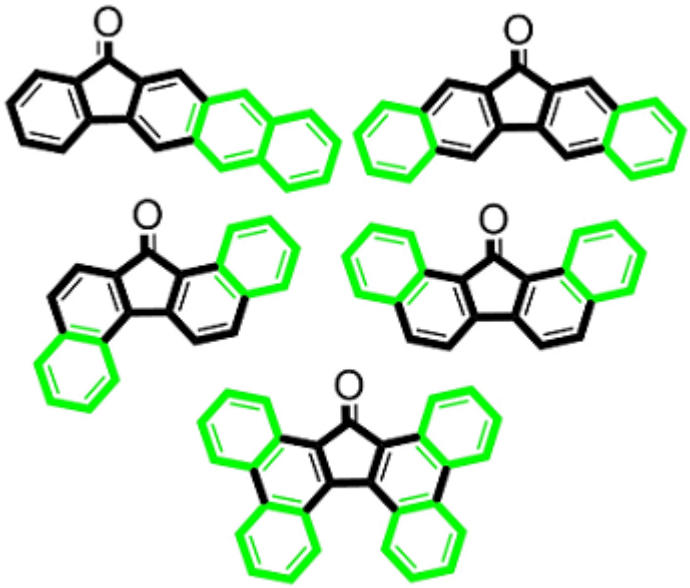


B. Large, D. Prim

On the Shape and Synthesis of Extended Fluorenones: Recent Advances and Upcoming Challenges

Eur. J Org. Chem. **2022**, e202101032 .

DOI: 10.1002/ejoc.202101032



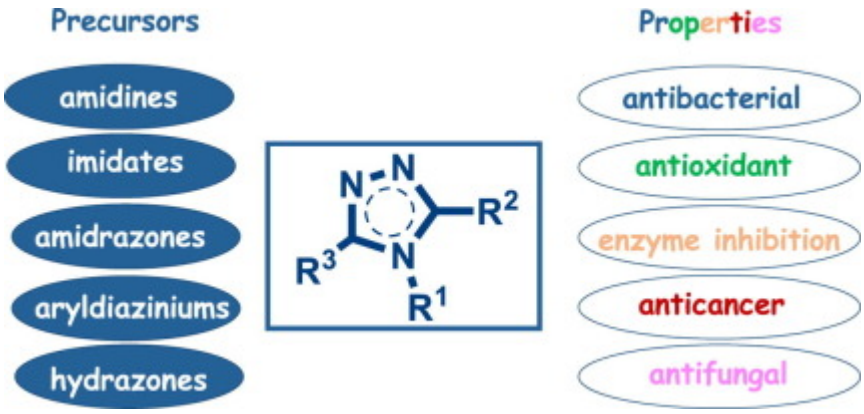
2021

A. Abdelli, S. Azzouni, R. Plais, A. Gaucher, M. L. Efrit, D. Prim

Recent Advances in the Chemistry of 1,2,4- Triazoles: Synthesis, Reactivity and Biological Activities

Tetrahedron Lett. **2021**, *86*, 153518

DOI: 10.1016/j.tetlet.2021.153518



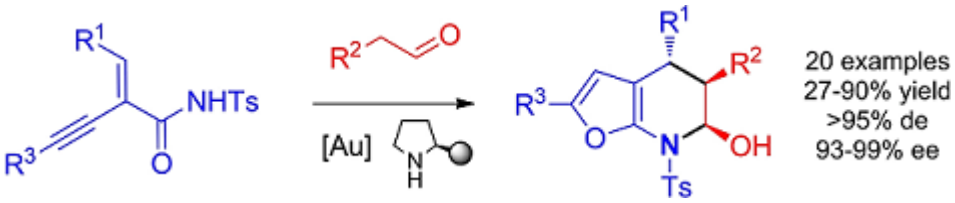
M. Genet, A. Takfaoui, J. Marrot, C. Greck, X. Moreau

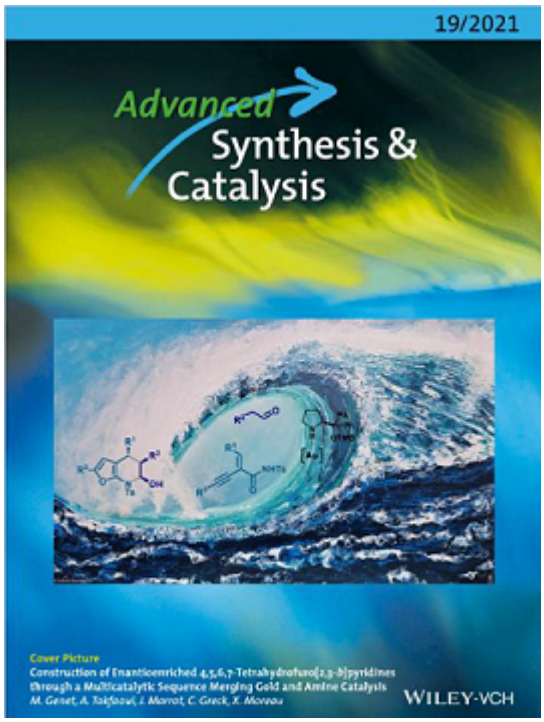
Construction of enantioenriched fused bicyclic piperidines through a multicatalytic

sequence merging gold and amine catalysis

Adv. Synth. Catal. **2021**, *363*, 4516.

DOI : 10.1002/adsc.202100756



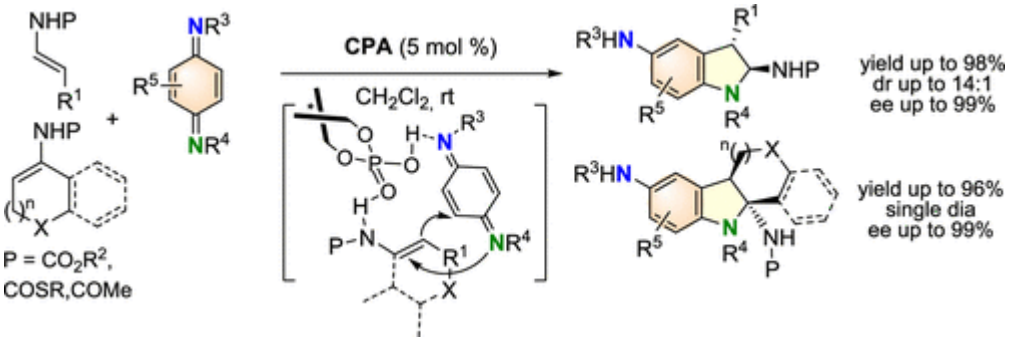


W.-Y. Ma, C. Gelis, D. Bouchet, P. Retailleau, X. Moreau, L. Neuville, G. Masson

Chiral Phosphoric Acid Catalyzed Enantioselective Construction of 2,3-Disubstituted Indoline

Org. Lett. **2021**, *23*, 442.

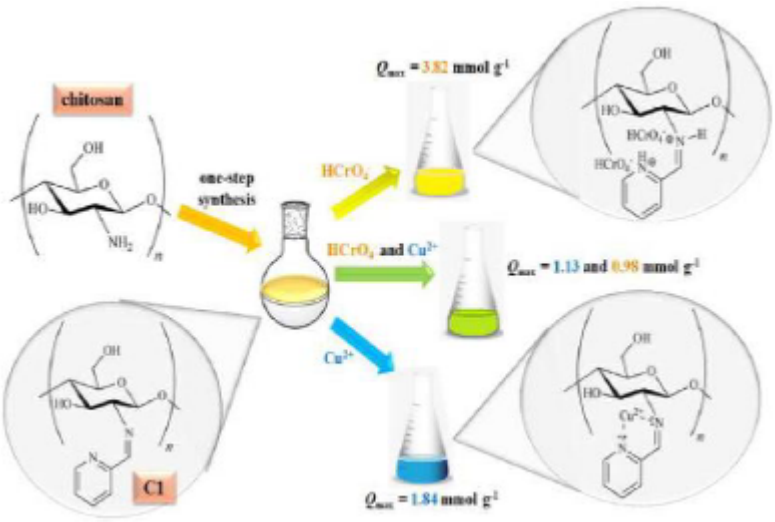
DOI: 10.1021/acs.orglett.0c03947



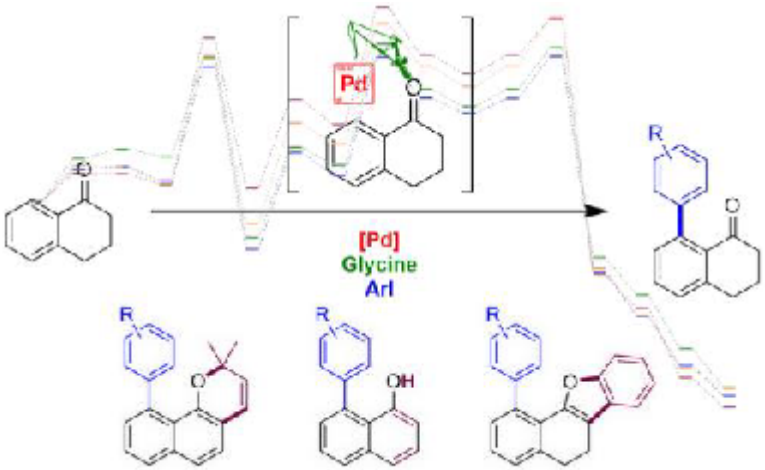
F. J. Gonçalves, L. V. A. Gurgel, L. C. Soares, F. S. Teodoro, G. M. D. Ferreira, Y. L Coelho, L. H. M. da Silva, D. Prim, L. F. Gil

Application of pyridine-modified chitosan derivative for simultaneous adsorption

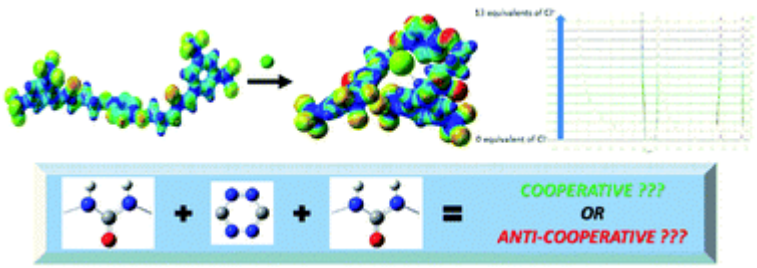
of Cu(II) and oxyanions of Cr(VI) from aqueous solution
J. Environ. Manage. **2021**, *282*, 111939.
DOI: 10.1016/j.jenvman.2021.111939



B. Large, D Prim
Unravelling the C-H arylation of benzo-fused cycloalkanones: combined experimental and computational evidence
Adv. Synth. Catal. **2021**, *363*, 1685.
DOI:10.1002/adsc.202001349

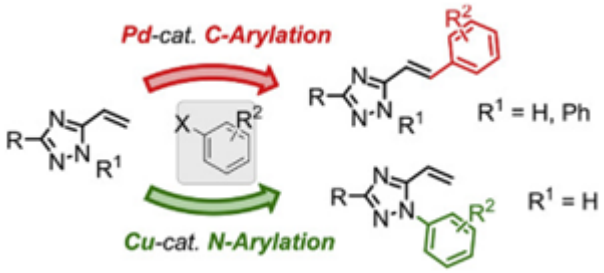


R. Plais, H. Boufroura, G. Gouarin, A. Gaucher, V. Haldys, A. Brosseau, G. Clavier, J.-Y. Salpin, D. Prim
Design and Property Investigation on a Five-Interaction-based Fluorescent Anion Receptor Clip
*RSC Advance*s **2021**, *11*, 9476.
DOI: 10.1039/d1ra00630d

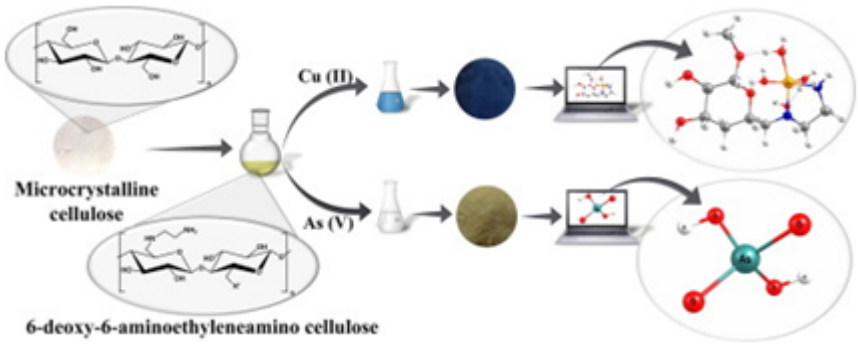


2020

S. Azzouni, A. Gaucher, D. Prim, M. L. Efrit
Orthogonal arylations of 5-vinyl-1,2,4-triazoles.
Tetrahedron **2020**, 76, 130954.
DOI : 10.1016/j.tet.2020.130954

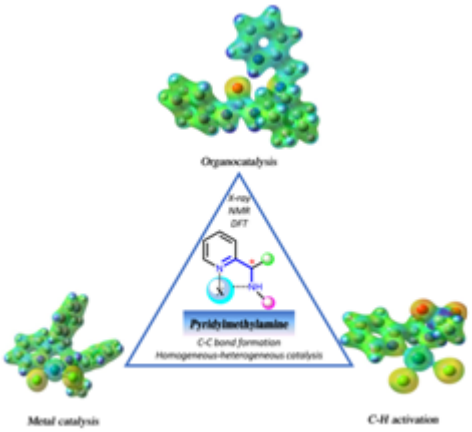


A. R Pereira, L. C. Soares, F. S. Teodoro, M. M. Cota Elias, G. M. Dias Ferreira, R. M. Leal Savedra, M. F. Siqueira, C. Martineau-Corcos, L. H. Mendes da Silva, D. Prim, L. V. A. Gurgel
Aminated cellulose as a versatile adsorbent for batch removal of As(V) and Cu(II) from mono- and multicomponent aqueous solutions
J. Colloid Int. Sci. **2020**, 576, 158.
DOI : 10.1016/j.jcis.2020.04.129



B. Large, R. Plais, A. Gaucher, D. Prim,
Pyridylmethylamines a modular and underrated family of ligands in both metal- and organo-catalysis

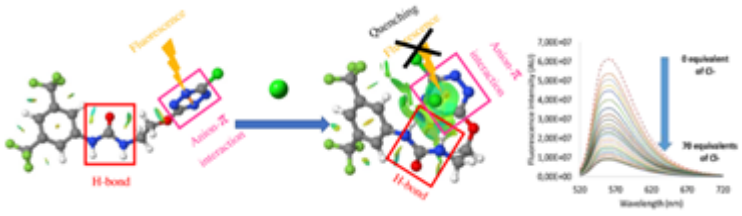
Vietnam J. Chem., **2020**, 58, 404.
DOI : 10.1002/vjch.202000031.



A. Abdelli, H. Gharsa, M. Jmaï, A. Gaucher, M. L. Efrit, H. M'rabet, D. Prim
Versatile approach to densely substituted isoxazolines and pyrazolines: focus on a quaternary carbon center as a constitutive feature
Tetrahedron Lett. **2020**, 61, 151958
DOI : 10.1016/j.tetlet.2020.151958.



R. Plais, G. Gouarin, A. Gaucher, V. Haldys, A. Brosseau, G. Clavier, J.-Y. Salpin, D. Prim
Intertwined detection and recognition roles of tetrazine in synergistic anion- and H-bond based anion receptor
ChemPhysChem **2020**, 21, 1249.
DOI : 10.1002/cphc.202000289.

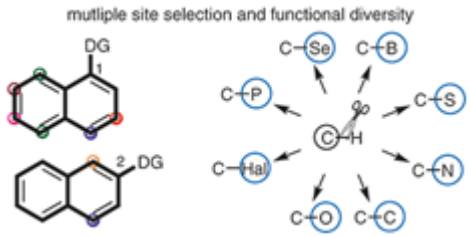


B. Large, D. Prim

C-H functionalisation strategies in the naphthalene series: site selections and functional diversity

Synthesis, **2020**, 2600.

DOI : 10.1055/s-0040-1707855.

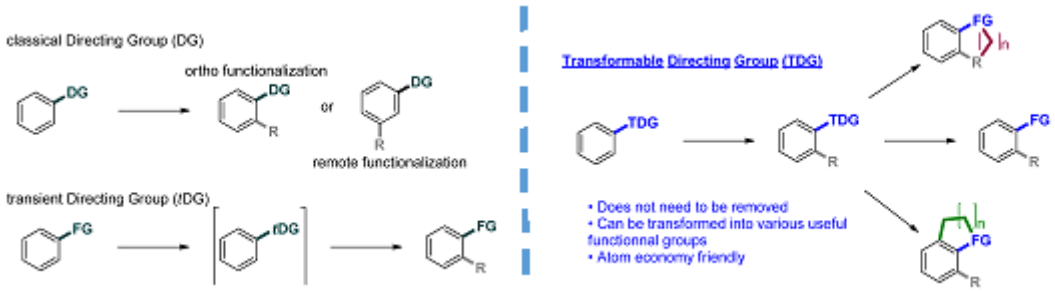


B. Large, V. Terrasson, D. Prim

Tosylamides in C-H functionalization: more than a simple directing group

Processes **2020**, 8(8), 981.

DOI : 10.3390/pr8080981.

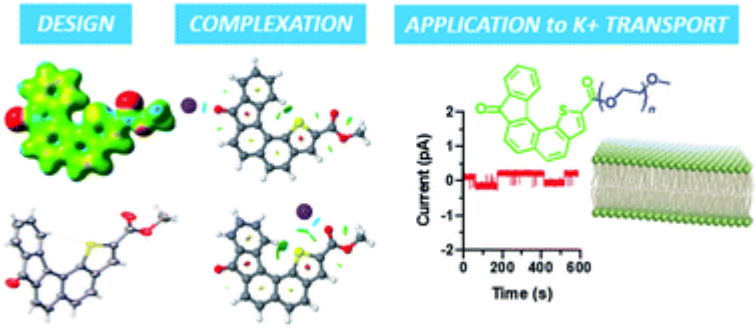


H. Boufroura, R. Plais, S. Poyer, A. Gaucher, J. Marrot, G. Clavier, F.-X. Legrand, C. Huin, P. Guégan, D. Prim, J.-Y. Salpin

Helically-shaped cation receptor: design, synthesis, characterisation and first application to ion transport

RSC Advances **2020**, 10, 31670.

DOI : 10.1039/d0ra05519k.

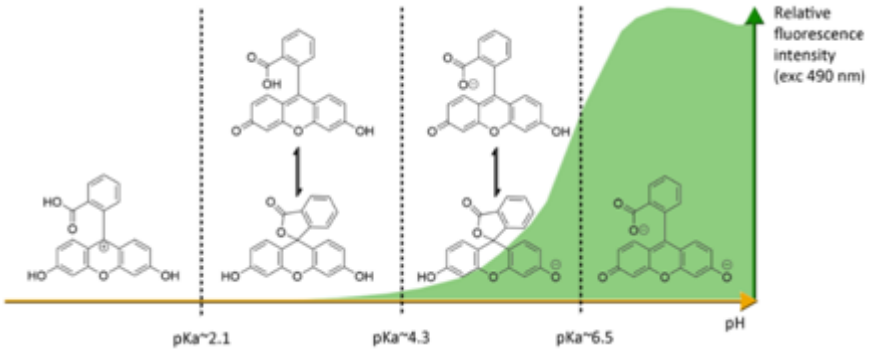


F. Le Guern, V. Mussard, A. Gaucher, M. Rottman, D. Prim

Fluorescein derivatives as fluorescent probes for pH monitoring along recent biological applications

Int. J. Molecular Sciences, **2020**, *21*(23), 9217.

DOI : 10.3390/ijms21239217.



P. De Bonfils, E. Verron, C. Sandoval-Altamirano, P. Jaque, X. Moreau, G. Gunther, P. Nun, V. Coeffard

Unusual oxidative dealkylation strategy toward functionalized phenalenones as singlet oxygen photosensitizers and photophysical studies.

J. Org. Chem. **2020**, *85*, 10603.

DOI : 10.2021/acs.joc.0c01140.

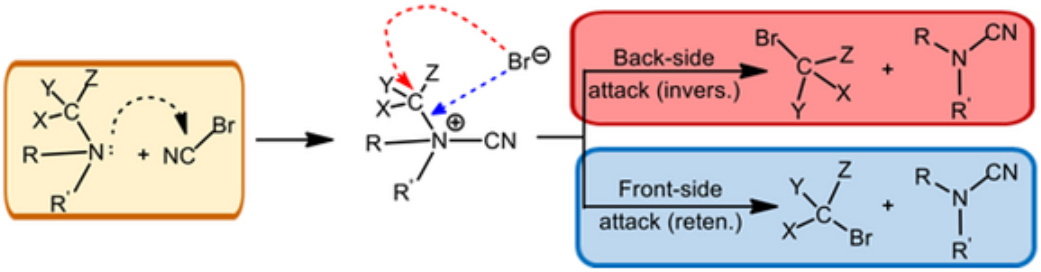


F. Couty, O. N. Burov, M. E. Kletskii, A. V. Lisovin, K. Wright, B. Drouillat, S. V. Kurbatov

Theoretical investigation of von Braun and von Braun-like reactions

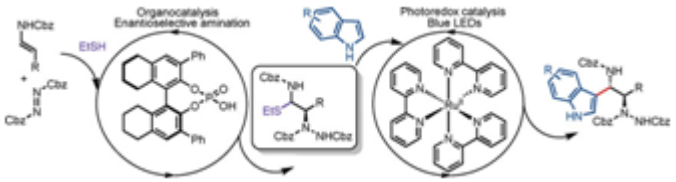
Int. J. Quantum Chem. **2020**, *120*, 3, e26088

DOI: 10.1002/qua.26088

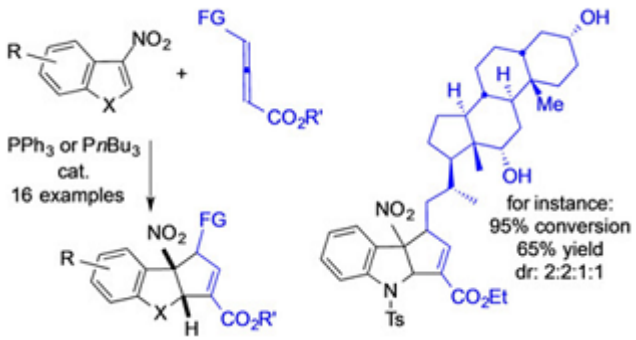


2019

G. Levitre, C. Audubert, A. Dumoulin, N. Goual, P. Retailleau, X. Moreau, G. Masson
Combining organocatalysis and photoredox catalysis: an asymmetric synthesis of chiral b-amino a-substituted tryptamines
ChemCatChem **2019**, *11*, 5723 (link)

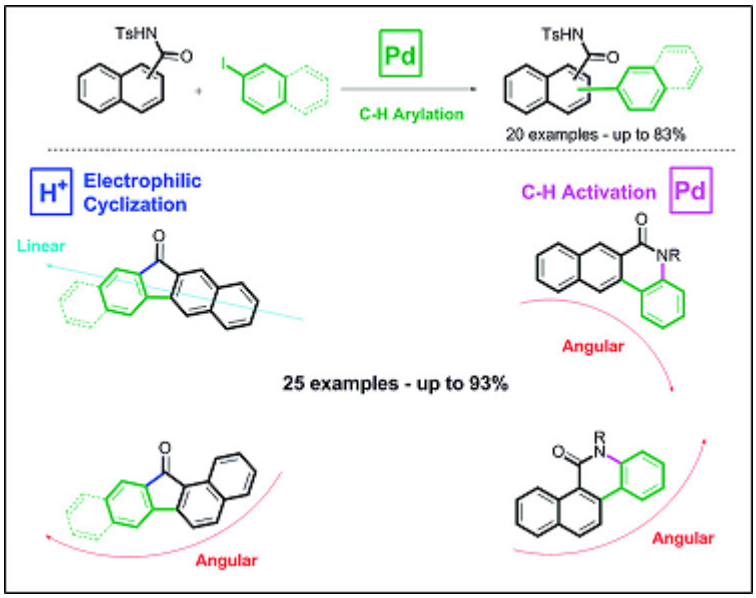


L. Birbaum, L. Gillard, H. Gérard, H. Oulyadi, G. Vincent, X. Moreau, M. De Paolis, I. Chataigner
Dearomatization of 3Nitroindoles with Highly Functionalized Allenoates in Formal (3+2) Cycloadditions
Chem. Eur. J. **2019**, *25*, 13649 (link)



B. Large, N. Gigant, D. Joseph, G. Clavier, D. Prim.
Site-selective arylation of naphthalenes: a key entry towards extended fluorenones and phenanthridinones

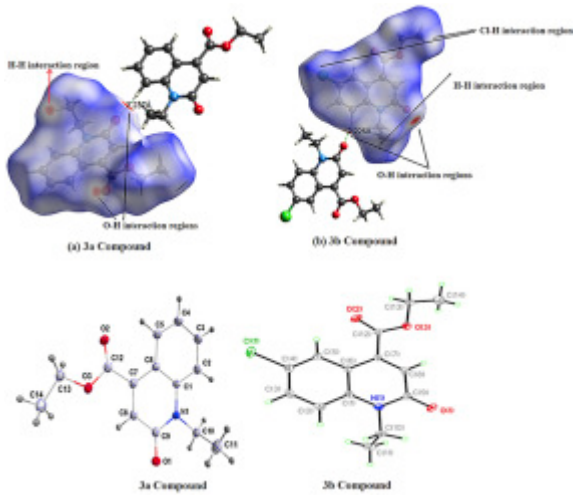
Eur. J. Org. Chem. **2019**, 1835 (link)



Y. Filali Baba, Y. Sert, Y. Kandri Rodi, S. Hayani, J.T. Mague, D. Prim, J. Marrot, F. Ouazzani Chahdi, N. Kheira Sebbar, El M. Essassi

Synthesis, crystal structure, spectroscopic characterization, Hirshfeld surface analysis, molecular docking studies and DFT calculations, and antioxidant activity of 2-oxo-1,2-dihydroquinoline-4-carboxylate derivatives

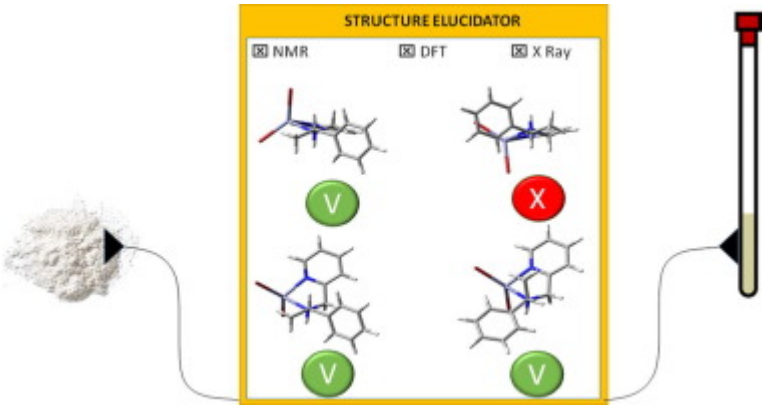
J. Mol. Struct. **2019**, *1188*, 255 (link)



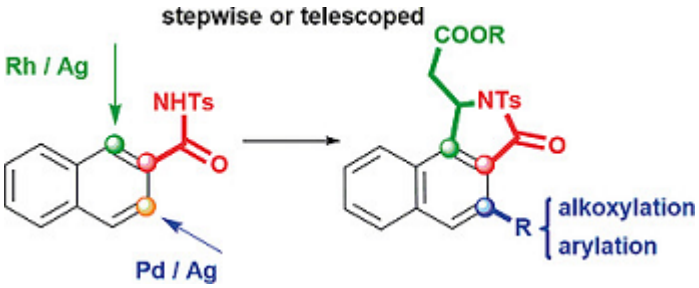
B. Large, M. Meddeb, J. E. H. Pucheta, A. Gaucher, M. Cordier, C. Gosmini, J. Farjon, A. Auffrant, D. Prim

Deciphering Preferred Geometries of Pyridylmethylamines –Based Complexes: A Robust Strategy Combining NMR, DFT and X-Ray

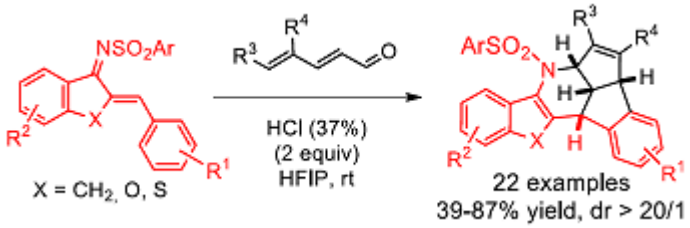
Inorg. Chim. Acta **2019**, *498*, 119070 (link)



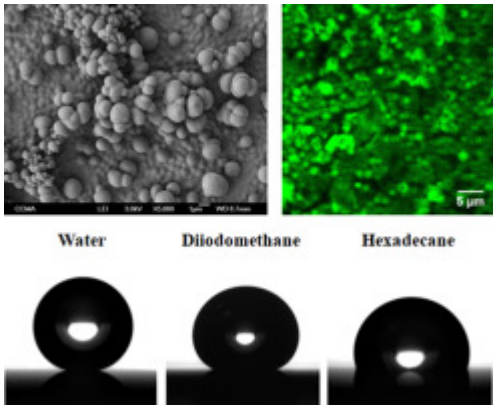
B. Large, N. Gigant, D. Joseph, G. Clavier, D. Prim
RhodiumCatalyzed C–H Activation of Naphthamides for the Synthesis of Substituted 3HBenzo[e]isoindolin3ones
Eur. J. Org. Chem. **2019**, 6407 (link)



A.-S. Marques, T. Duhail, J. Marrot, I. Chataigner, V. Coeffard, G. Vincent et X. Moreau
A Fused Hexacyclic Ring System: Diastereoselective Polycyclization of 2,4-Dienals by Interrupted iso-Nazarov Reaction
Angew. Chem. Int. Ed. **2019**, *58*, 9969 (link)



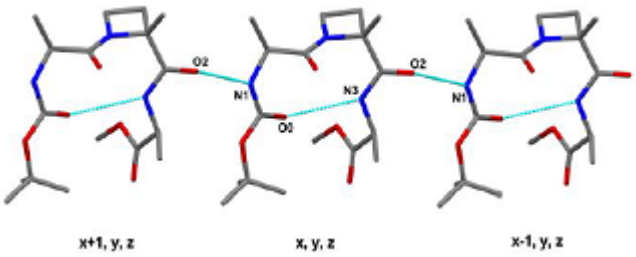
G. R. Chagas, G. M. Cruz, R. Méallet-Renault, A. Gaucher, D. Prim, D. E. Weibel, S. Amigoni, F. Guittard, T. Darmanin
Superhydrophobic and fluorescent properties of fluorinated polypyrene surfaces using various polar linkers prepared via electropolymerization
React. Funct. Polym. **2019**, *135*, 65 (link)



B.Drouillat, C. Peggion, B. Biondi, K. Wright, F. Couty, M. Crisma, F. Formaggio, C. Toniolo

Heterochiral Ala/(Me)Aze sequential oligopeptides: Synthesis and conformational study

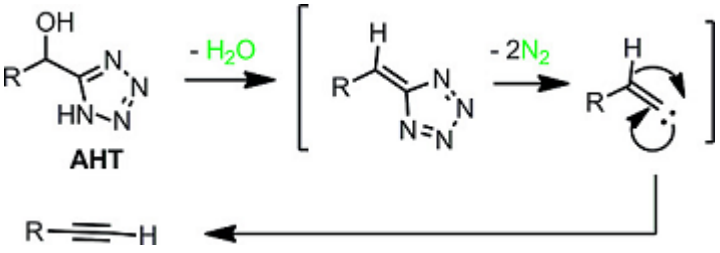
J. Pep. Sci. **2019**, *25*, e3165 (link)



P. Quinodoz, K. Wright, B. Drouillat, M. E. Kletskii, O. N. Burov, A. V. Lisovin, F. Couty

HydroxyTetrazoles as Latent Ethynyl Moieties: A Mechanistic Investigation

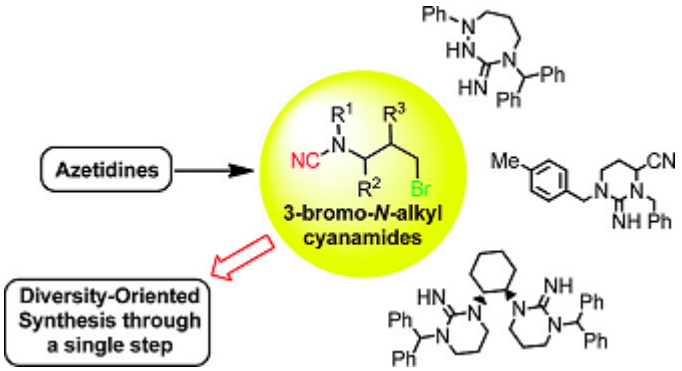
Eur. J. Org. Chem. **2019**, 342 (link)



K. Wright, B. Drouillat, L. Menguy, J. Marrot, F. Couty

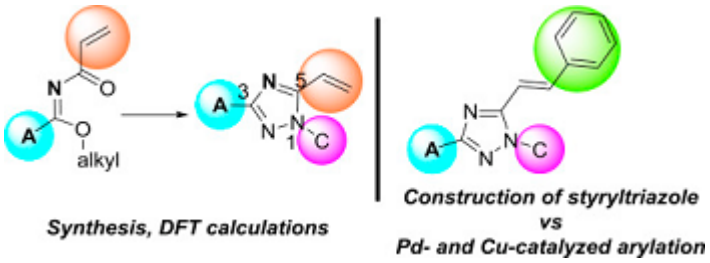
3Bromo NAlkyl Cyanamides as Versatile Building Blocks

Eur. J. Org. Chem. **2019**, 112 (link)

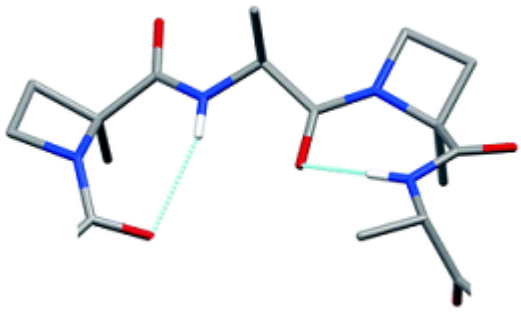


2018

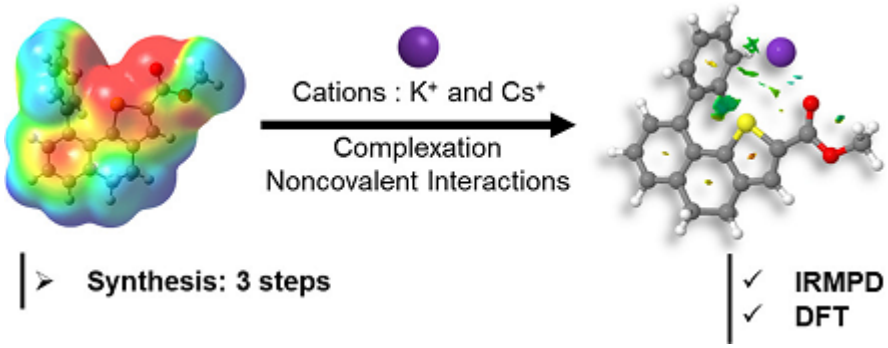
S. Azzouni, A. Abdelli, A. Gaucher, Y. Arfaoui, M. L. Efrit, D. Prim
From imidates to vinyl-1,2,4- triazoles: Synthesis, mechanistic aspects and first issues of their reactivity
Tetrahedron **2018**, *74*, 6972 (link)



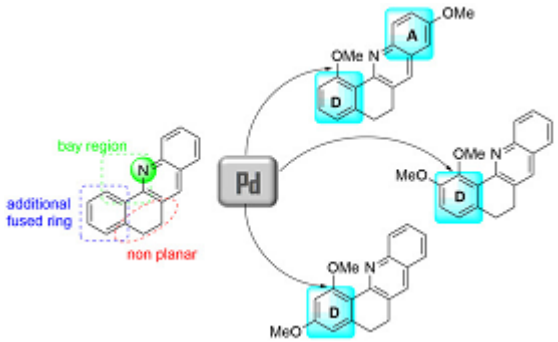
B. Drouillat, C. Peggion, B. Biondi, K. Wright, F. Couty, M. Crisma, F. Formaggio, C. Toniolo
A novel peptide conformation : the gamma-bend ribbon
Org. Biomol. Chem. **2018**, *16*, 7947 (link)



H. Boufroura, S. Poyer, A. Gaucher, C. Huin, J.Y. Salpin, G. Clavier, D. Prim
Topology and Electronic Density Driven Generation of Alkali Cation Complexes
Chem. Eur. J. **2018**, *24*, 8656 (link)

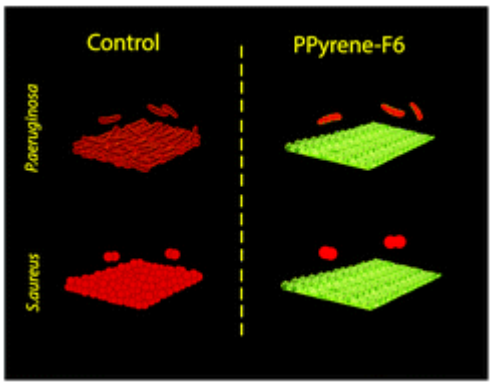


B. Large, F. Bourdreux, A. Damond, A. Gaucher, D. Prim
Palladium-Catalyzed Regioselective Alkoxylation via C-H Bond Activation in the Dihydrobenzo[c]acridine Series
Catalysts **2018**, *8*, 139 (link)



F. J. Goncalves, F. Kamal, A. Gaucher, R. Gil, F. Bourdreux, C. Martineau-Corcos, L. V. A. Gurgel, L. F. Gil, D. Prim
Synthesis, characterisation and application of pyridine-modified chitosan derivatives for the first non-racemic Cu-catalysed Henry reaction
Carbohydr. Polym. **2018**, *181*, 1206 (link)

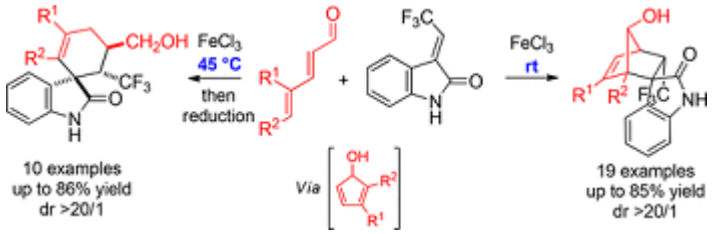
G. Morán, G. Ramos-Chagas, S. Hugelier, X. Xie, R. Boudjemaa, C. Ruckebusch, M. Sliwa, T. Darmanin, A. Gaucher, D. Prim, G. Godeau, S. Amigoni, F. Guittard, R. Méallet-Renault
Superhydrophobic polypyrene films to prevent Staphylococcus aureus and Pseudomonas aeruginosa biofilm adhesion on surfaces: high efficiency deciphered by fluorescence microscopy
Photochem. Photobiol. Sci. **2018**, *17*, 1023 (link)



A.-S. Marques, J. Marrot, I. Chataigner, V. Coeffard, G. Vincent, X. Moreau

In Situ Generation of Cyclopentadienol Intermediates from 2,4-Dienals. Application to the Synthesis of Spirooxindoles via a Domino Polycyclization

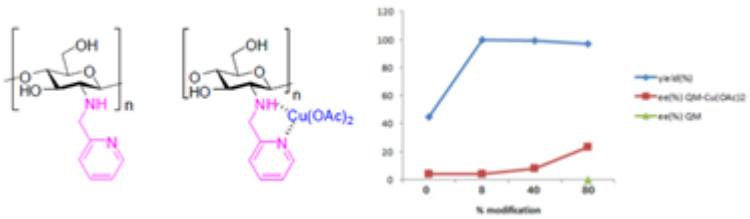
Org. Lett. **2018**, *20*, 792 (link)



F. Jorge Goncalves, F. Kamal, A. Gaucher, R. Gil, F. Bourdreux, C. Martineau-Corcos, L. V. A. Gurgel, L. F. Gil, D. Prim

Synthesis, characterisation and application of pyridine-modified chitosan derivatives for the first non-racemic Cu-catalysed Henry reaction

Carbohydrate Polymers **2018**, *181*, 1206 (link)

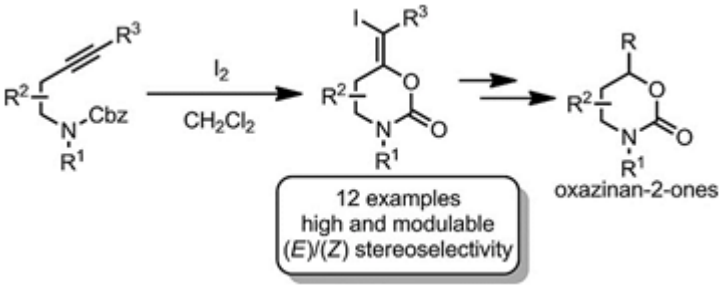


2017

P. Quinodoz, A. Quelhas, K. Wright, B. Drouillat, J. Marrot, F. Couty

Iodocarbamation of N-homopropargyl carbamates : mild and stereoselective entry to functuonalized oxazinan-2-ones

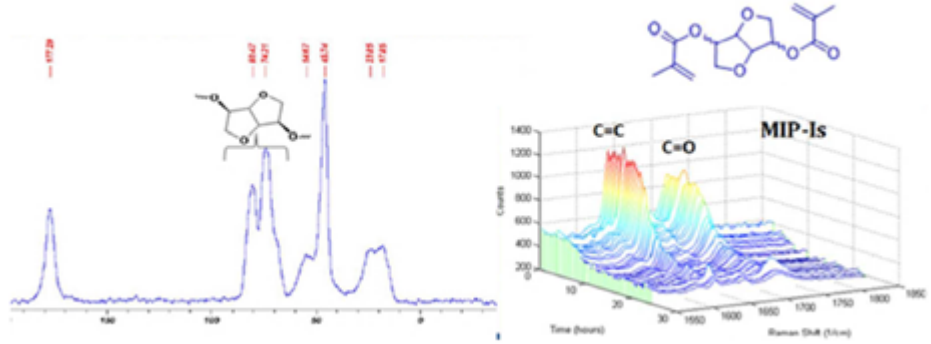
Eur. J. Org. Chem. **2017**, 2621 (link)



A. Saadaoui, C. Sanglar, R. Medimagh, A. Bonhomme, R. Baudot, S. Chatti, S. Marque, D Prim, M. Said Zina, H. Casabianca

New biosourced chiral molecularly imprinted polymer: Synthesis, characterization and evaluation of the recognition capacity of methyltestosterone.

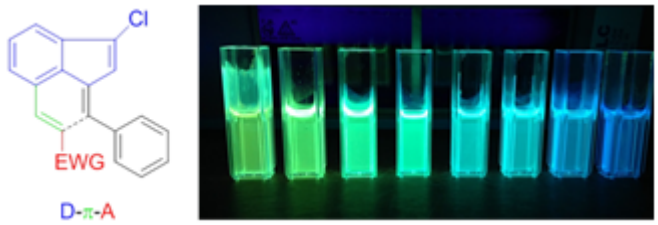
J. Mol. Recognition **2017**, *30*, e2594 (link)



M. Giardinetti, J. Marrot, V. Coeffard, X. Moreau, C. Greck

Synthesis and Fluorosolvatochromic Properties of 1,7-Annulated Indoles

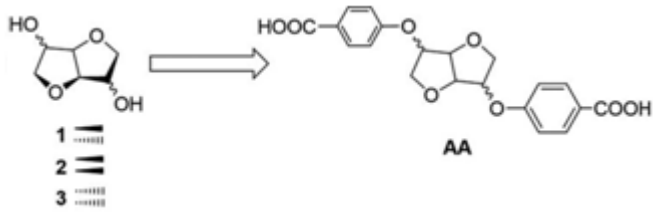
New J. Chem. **2017**, *41*, 7331 (link)



A. Saadaoui, R. Medimagh, S. Marque, D. Prim, S. Chatti, H. Casabianca, M. Said Zina

New biosourced AA and AB monomers from 1,4:3,6-dianhydrohexitols, Isosorbide, Isomannide and Isoidide.

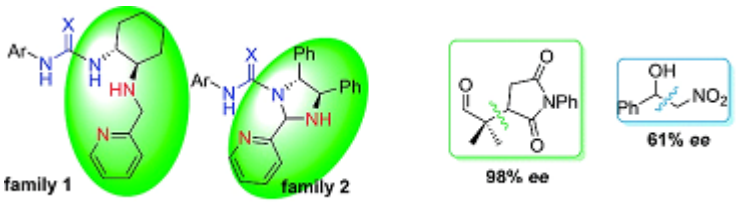
Designed Monomers and Polymers **2017**, *20*, 221 (link)



O. Colin, H. Boufroura, C. Thomassigny, S. Perato, A. Gaucher, J. Marrot, D. Prim

Modular urea-based catalytic platforms bearing flexible pyridylmethylamine and rigid pyridyl-imidazolidine fragments

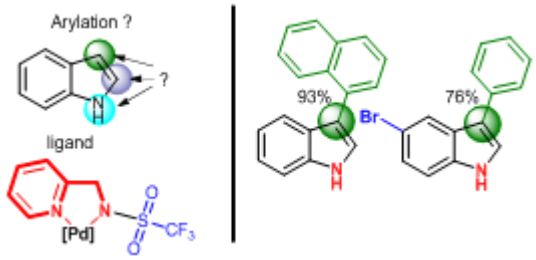
Eur. J. Org. Chem. **2017**, 746 (link)



S. Perato, B. Large, Q. Lu, A. Gaucher, D. Prim

Pyridylmethylamine-Pd catalytic systems, a selective alternative in C-H arylation of indole

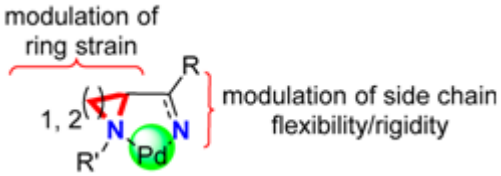
ChemCatChem **2017**, *9*, 389 (link)



H. Boufroura, B. Large, T. Bsaibess, S. Perato, V. Terrasson, A. Gaucher, D. Prim

Aziridine- and azetidine-Pd catalytic combinations. Synthesis and evaluation of the ligand ring size impact on Suzuki-Miyaura reaction issues.

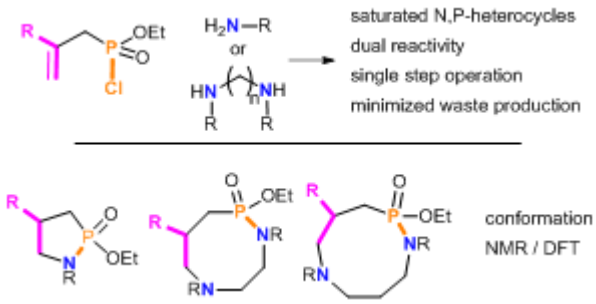
Catalysts **2017,** *7*, 27 (link)



H. Boufroura, A. Abdelli, T. Bsaibess, F. Bourdreux, A. Gaucher,G. Clavier, M. L. Efrit, H. M'Rabet, D. Prim

Easy access to 1,2-azaphospholidines through novel one pot nucelophilic addition - aza-Michael addition sequence. Extension to the preparation of azaphosphacane and azaphosphanane analogues.

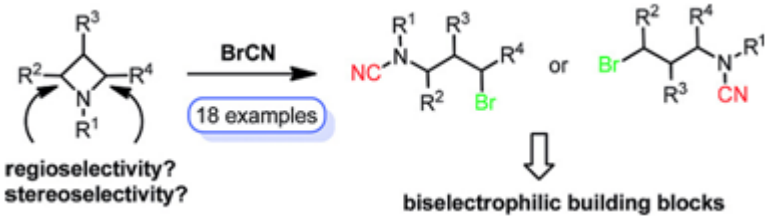
RSC Advances **2017**, *7*, 18211 (link)



K. Wright, B. Drouillat, L. Menguy, J. Marrot, F. Couty

The Von Braun reaction applied to azetidines

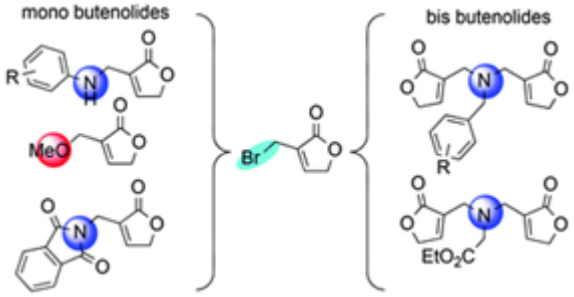
Eur. J. Org. Chem. **2017**, 7195 (link)



A. Talbi, A. Arfaoui, T. Bsaibess, M. L. Efrit, A. Gaucher, D. Prim, H. M'Rabet

Selective synthesis of mono- and bis-butenolides -aminomethyl adducts

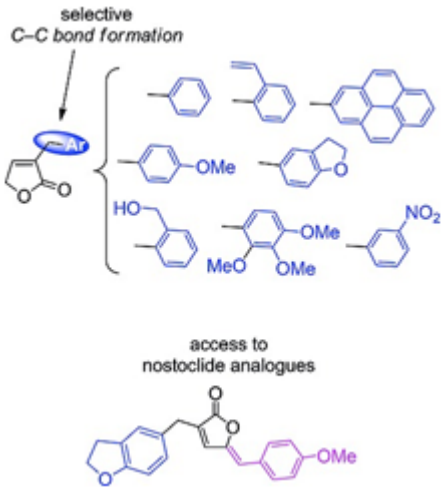
Org. Biomol. Chem. **2017**, *15*, 3298 (link)



A. Talbi; T. bsaibess; M. L. Efrit; H. M'Rabet; A. Gaucher, D. Prim

Straightforward and regioselective access to -benzyl unsaturated butyrolactones

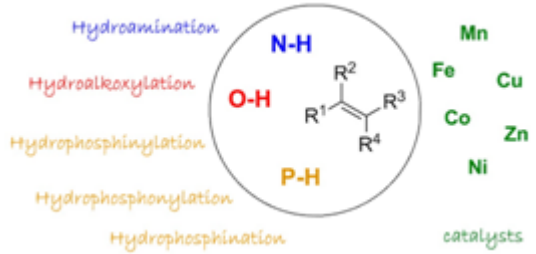
Eur. J. Org. Chem. **2017**, 5246 (link)



S. Bezzenine-Lafollée, R. Gil, D. Prim, J. Hannedouche

First-row late transition metals for catalytic alkene hydrofunctionalisation: Recent advances in C-N, C-O and C-P bond formation

Molecules **2017**, *22*, 1901 (link)



A. Talbi, A. Gaucher, F. Bourdreux, J. Marrot, M. L. Efrit, H. M'Rabet, D. Prim

From -Bromomethylbutenolide to Fused Tri(Tetra) Cyclic dihydrofurandiones through Barbier Reaction–Heck Arylation Sequence

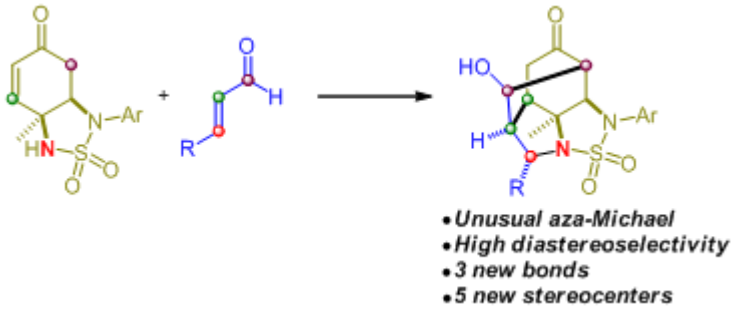
Molecules **2017**, *22*, 2171 (link)



L. Pantaine, A. Laverny, X. Moreau, V. Coeffard, C. Greck

Stereoselective multibond-forming process towards functionalized sulfamide-containing polycycles

Synthesis **2017**, *49*, 532 (link)

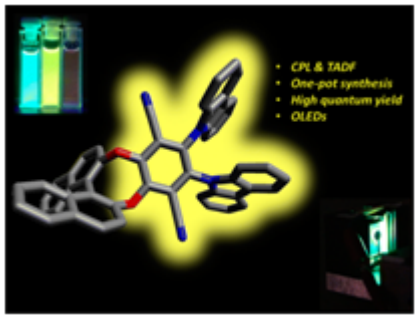


2016

S. Feuillastre, M. Pauton, L. Gao, A. Desmarchelier, A. Riives, D. Prim, D. Tondelier, B. Geffroy, G. Muller, G. Clavier, G. Pieters

Design and synthesis of new circularly polarized thermally activated delayed fluorescence emitters.

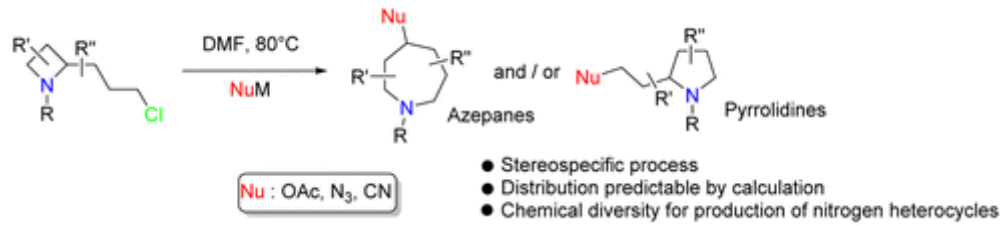
J. Am. Chem. Soc. **2016**, *138*, 3990 (link)



B. Drouillat, I. V. Dorogan, M. Kletskii, O. N. Burov, F. Couty

Competitive Ring Expansion of Azetidines into Pyrrolidines and/or Azepanes

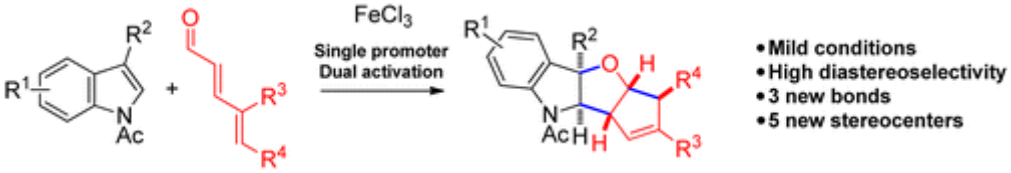
J. Org. Chem. **2016**, *81*, 6677 (link)



A.-S. Marques, V. Coeffard, I. Chataigner, G. Vincent, X. Moreau

Iron-mediated domino interrupted iso-Nazarov/dearomative (3+2)-cycloaddition of electrophilic indoles

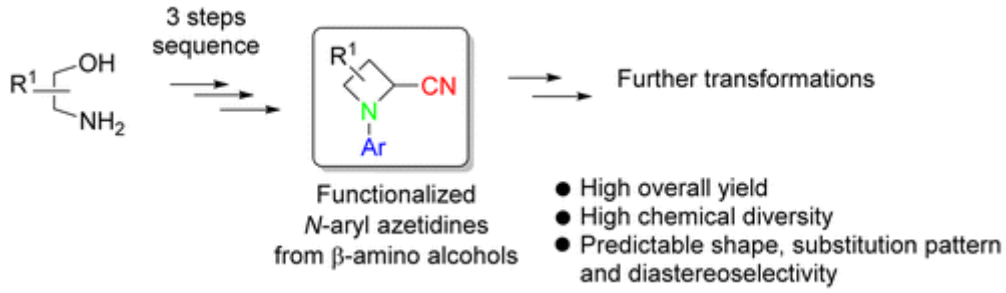
Org. Lett. **2016**, *18*, 5296 (link)



P. Quinodoz, B. Drouillat, K. Wright, J. Marrot, F. Couty

NArylazetidines: Preparation through Anionic Ring Closure

J. Org. Chem. **2016**, *81*, 2899 (link)



A. Abdelli, F. Bourdreux, A. Gaucher, M. L. Efrit, H. M'rabet, D. Prim

Ring-closing metathesis on deactivated allyl-phosphonates and -phosphoramidates: access to dihydrophosphinine oxides bearing an ester group.

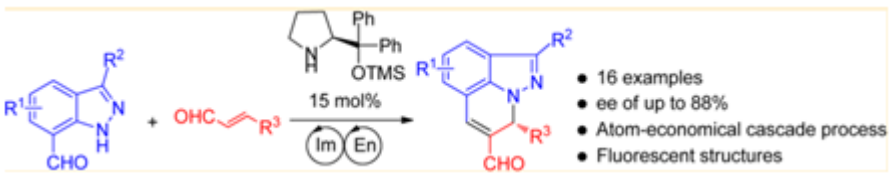
Tetrahedron Lett. **2016**, *57*, 379 (link)



M. Giardinetti, J. Marrot, X. Moreau, V. Coeffard, C. Greck

Asymmetric Synthesis of Fused Polycyclic Indazoles through Aminocatalyzed Aza-Michael Addition/Intramolecular Cyclization

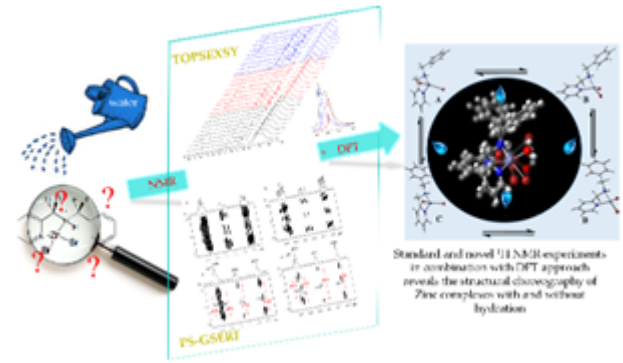
J. Org. Chem. **2016**, *81*, 6855 (link)



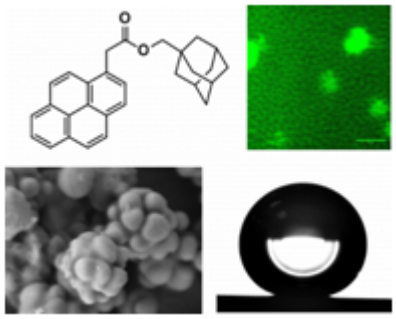
J. E. Herbert Pucheta, J.-M. Gillet, D. Prim, J. Farjon

Deciphering the conformational choreography of Zn-coordination complexes with

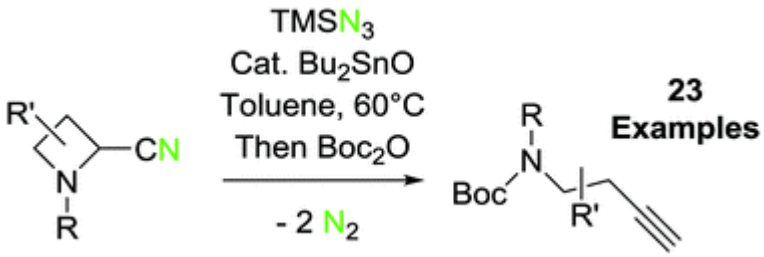
the help of standard and novel proton NMR techniques combined with DFT methods.
ChemPhysChem **2016**, *17*, 1034 (link)



G. Ramos Chagas, X. Xie, T. Darmanin, K. Steenkeste, A. Gaucher, D. Prim, R. Meallet-Renault, S. Amigoni, G. Godeau, F. Guittard
Electrodeposition of Polypyrenes with Tunable Hydrophobicity, Water Adhesion and Fluorescence Properties.
J. Phys. Chem. C. **2016**, *120*, 7077 (link)

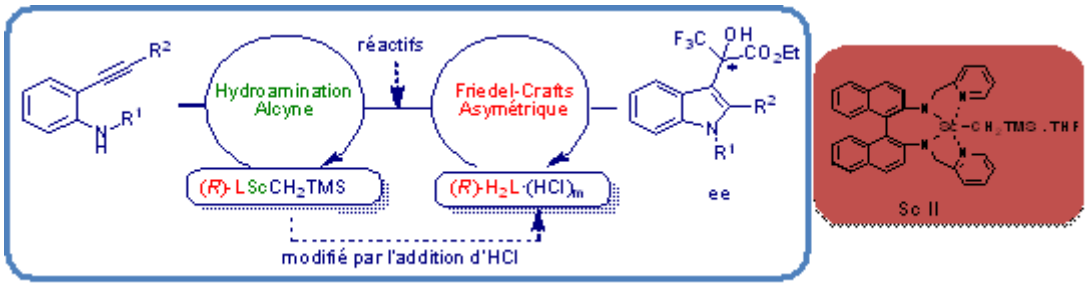


P. Quinodoz, K. Wright, B. Drouillat, O. David, J. Marrot, F. Couty
Synthesis of homopargylamines from 2-cyanoazetidines
Chem. Commun. **2016**, *52*, 10072 (link)

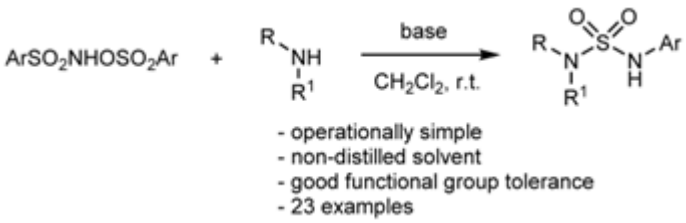


A. Aillerie, V. Rodriguez-Ruiz, R. Carlino, F. Bourdreux, R. Guillot, S. Bezzenine-Lafollée, R. Gil, D. Prim, J. Hannedouche
Asymmetric Assisted Tandem Catalysis: Hydroamination followed by Asymmetric Friedel-Crafts reaction from a single chiral N, N, N', N'-tetradentate

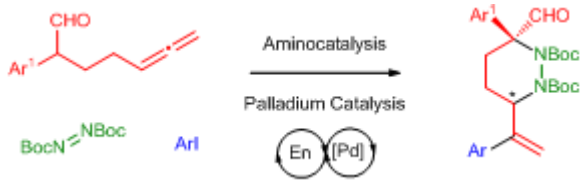
pyridylmethylamine-based ligand.
ChemCatChem. **2016**, *8*, 2455 (link)



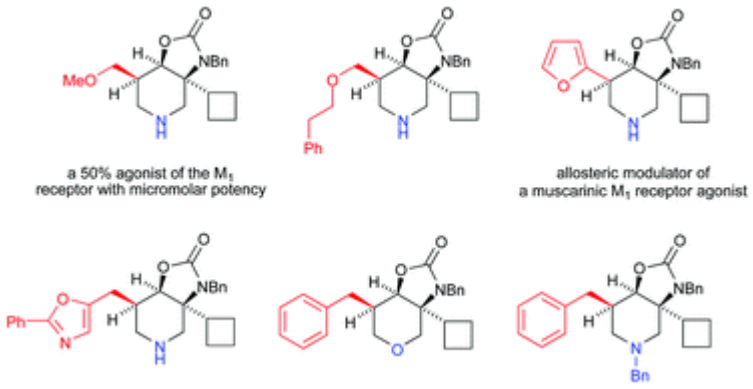
L. Pantaine, F. Richard, J. Marrot, X. Moreau, V. Coeffard, C. Greck
Efficient Synthesis of Unsymmetrical Sulfamides via a Lossen-Like Rearrangement
Adv. Synth. Catal. **2016**, *358*, 2012 (link)



A.-S. Marques, M. Giardinetti, J. Marrot, V. Coeffard, X. Moreau, C. Greck
Construction of enantioenriched polysubstituted hexahydropyridazines via a sequential multicatalytic process merging palladium catalysis and aminocatalysis
Org. Biomol. Chem. **2016**, *14*, 2828 (link)



K. J. Broadley, M. G. P. Buffat, E. Burnell, R. H. Davies, X. Moreau, S. Snee, E. J. Thomas
Stereoselective synthesis of oxazolidinonyl-fused piperidines of interest as muscarinic (M-1) receptor agonists: a novel M-1 allosteric modulator
Org. Biomol. Chem. **2016**, *14*, 2057 (link)



Loïc Pantaine, Xavier Moreau, Vincent Coeffard, and Christine Greck

The impact of asymmetric organocatalysis in dearomatization and aromatization of carbocycles: increasing molecular complexity and diversity

Tet. Lett. **2016**, *57*, 2567 (link)

