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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 γ -Lactams via Staudinger-Type [2 + 2]
Cyclization

Org. Lett. **2026**, *28*, 3770

[10.1021/acs.orglett.6c00470](https://doi.org/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

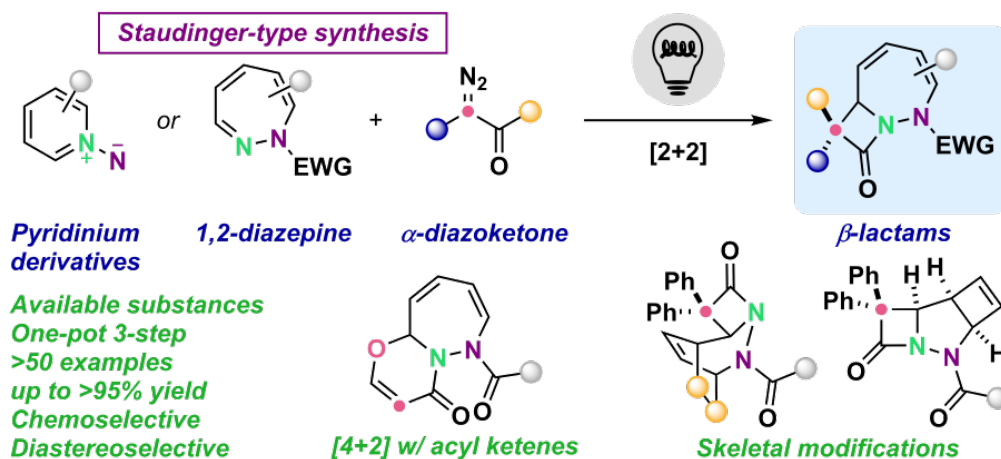


J. God--Carles, F. Bourdreux, A. Damond, J. Marrot, X. Moreau, C. Ghiazza

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

ChemRxiv. **2025**

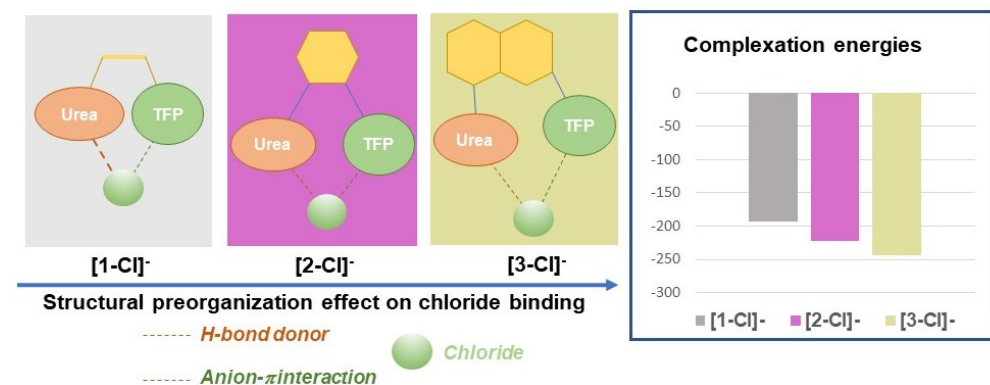
DOI:10.26434/chemrxiv-2025-g5lrr



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

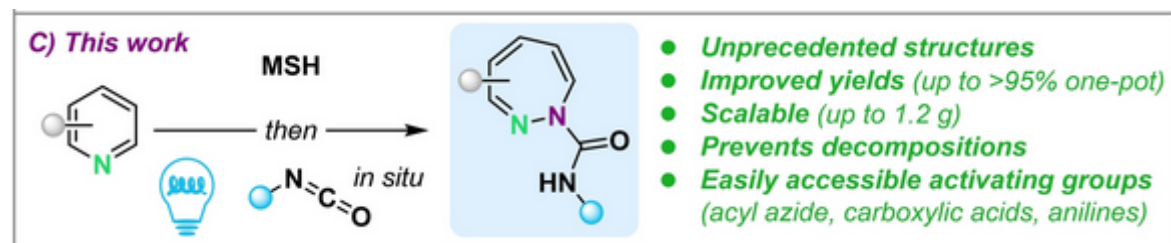


C. Ghiazza, A. Damond, J. Marrot, X. Moreau

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

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

DOI: 10.1002/adsc.202401201



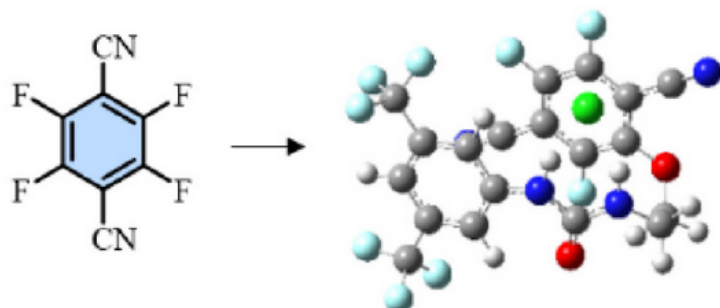
2024

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



DFT ✓, NMR ✓, Photophysics ✓, Mass ✓

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



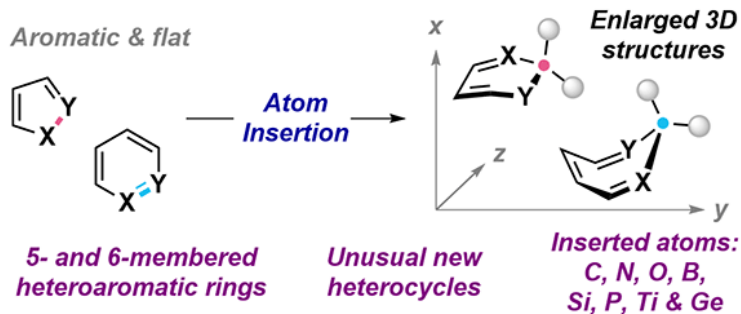
X. Moreau, C. Ghiazza

Modern Dearomative Enlargement of Heteroaromatic Rings

Synthesis **2024**, 56, 3119

10.1055/a-2335-8799

Dearomative Enlargement Reactions

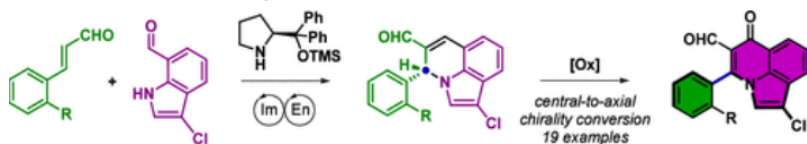


T. Khelifi, C. Jbilou, A. Leblais, J. Marrot, P. Nun, C. Ghiazza, I. Chataigner, V. Coeffard, X. Moreau

Atroposelective Construction of Axially Chiral 2-Aryl-Pyrroloquinolones

Org. Lett. **2024**, 26, 6725

10.1021/acs.orglett.4c02366

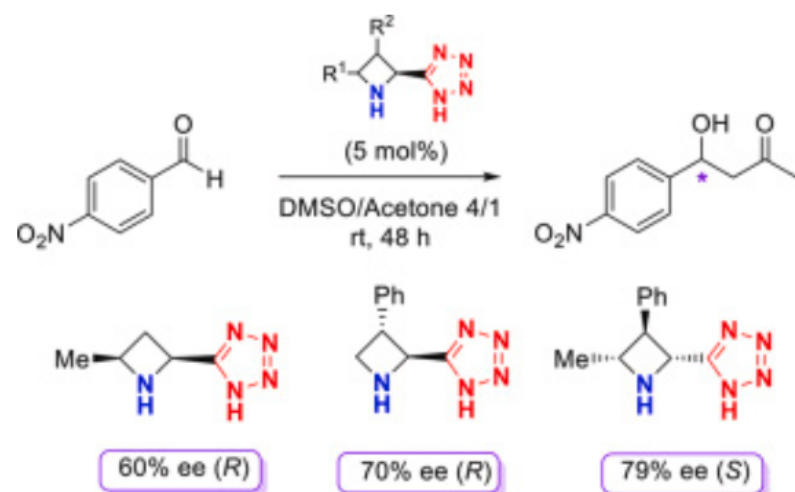


J. Alhoussein, J. Marrot, K. Wright*, F. Couty†, X. Moreau, B. Drouillat

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. Efrif

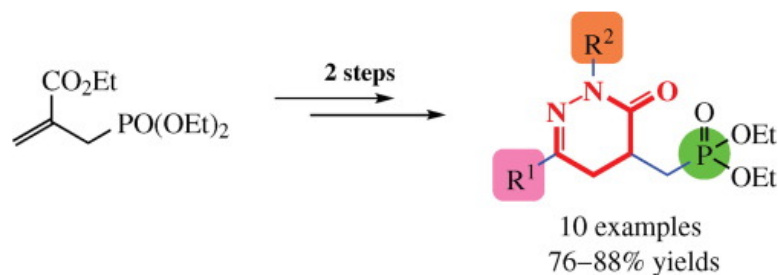
From Phosphonic Acid to O-P Heterocycles Using MW An Access to [5]-, [6]- and [8]-Membered Annelated Phosphinates

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

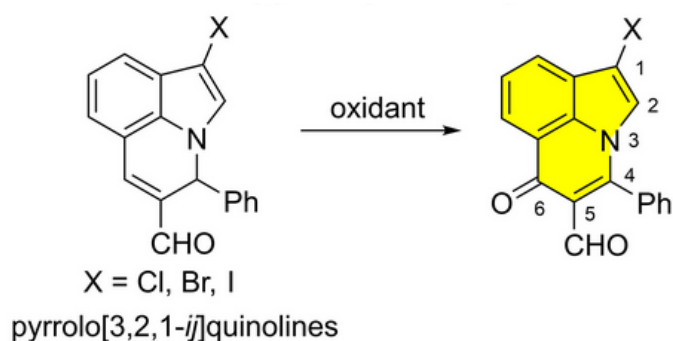


P. De Bonfils, C. Sandoval-Altamirano, X. Moreau, P. Nun, A. D. Laurent, G. Gunther, V. Coeffard

Synthesis and Photophysical Characterizations of Pyrroloquinolone Photosensitizers for Singlet Oxygen Production

Photochem. Photobiol. **2023**, *99*, 642

10.1111/php.13681



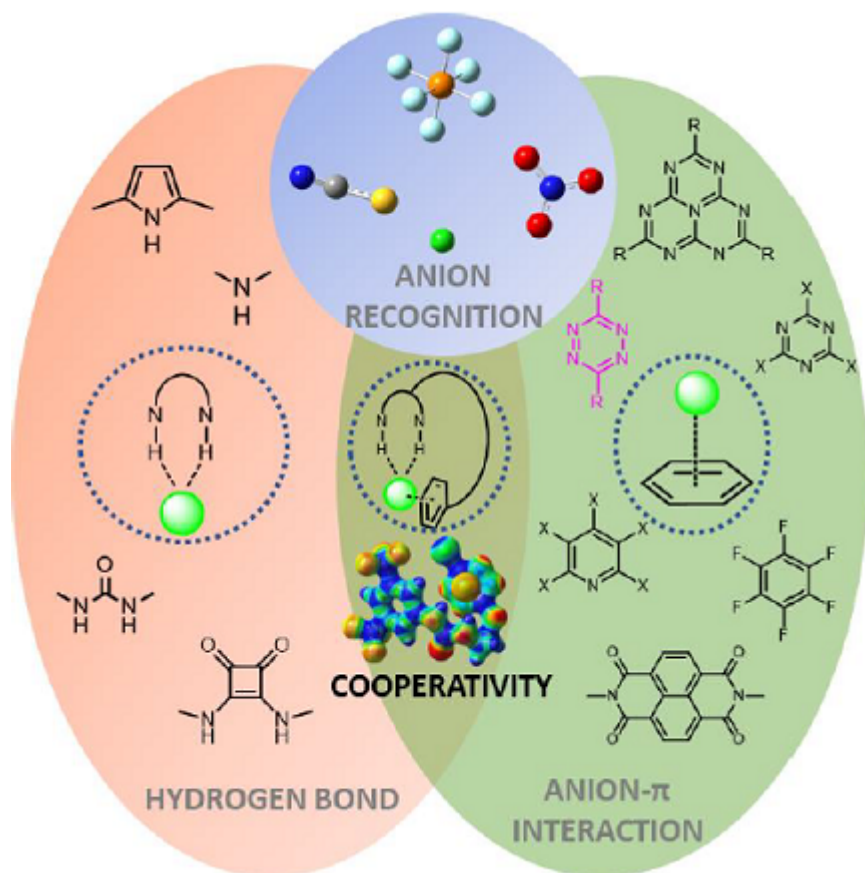
2022

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

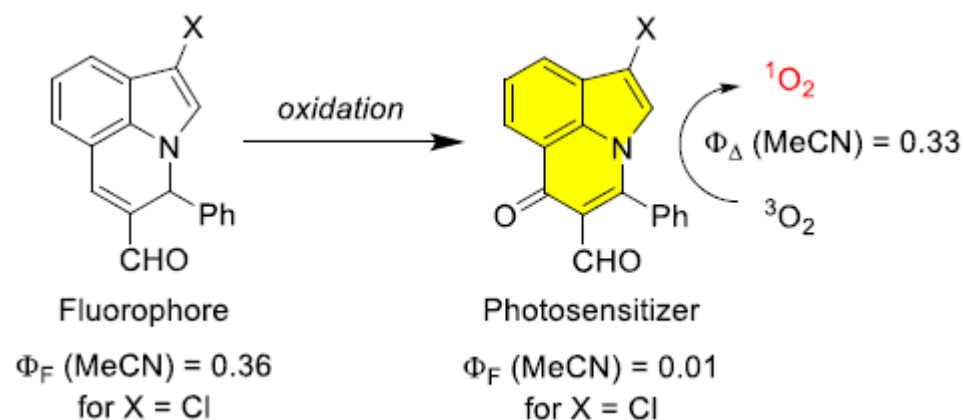


P. De Bonfils, C.Sandoval-Altamirano, X. Moreau, P. Nun, A. Laurent, G. Gunther, V. Coeffard

Synthesis and Photophysical Characterizations of Pyrroloquinolone Photosensitizers for Singlet Oxygen Production

Photochem. Photobiol. 2022, online

DOI : 10.1111/php.13681

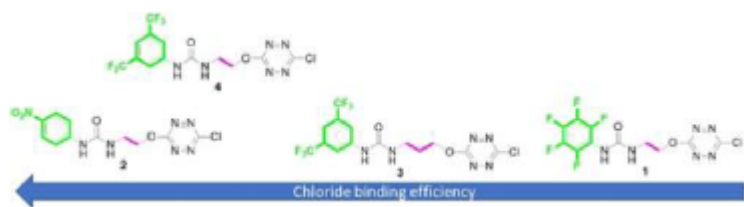


R. Plais, G. Guarin, A. Bournier, O. Zayene, V. Mussard, F. Bourdreux, J. Marrot, A. Brosseau, A. Gaucher, G. Clavier, J.-Y. Salpin, D. Prim

Chloride Binding Modulated by Anion Receptors Bearing Tetrazine and Urea

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

DOI: 10.1002/cphc.202200524

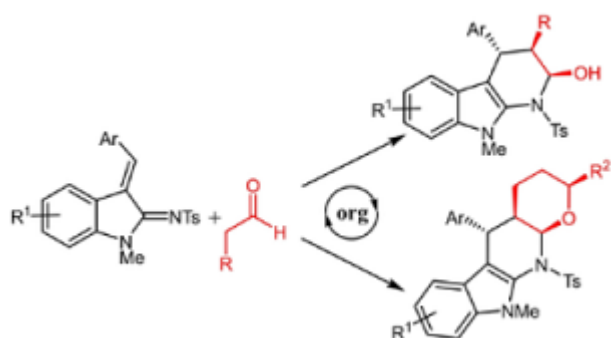


M. Genet, A. Takfaoui, J. Marrot, C. Greck, X. Moreau.

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

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

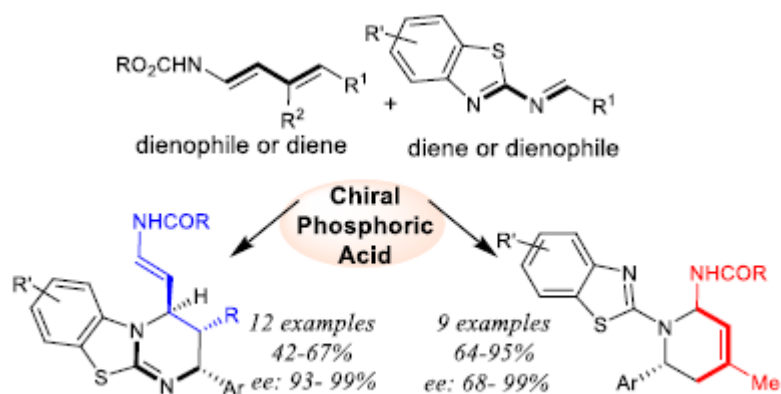
DOI: 10.1002/ejoc.202201154



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

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. Efrif, 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.

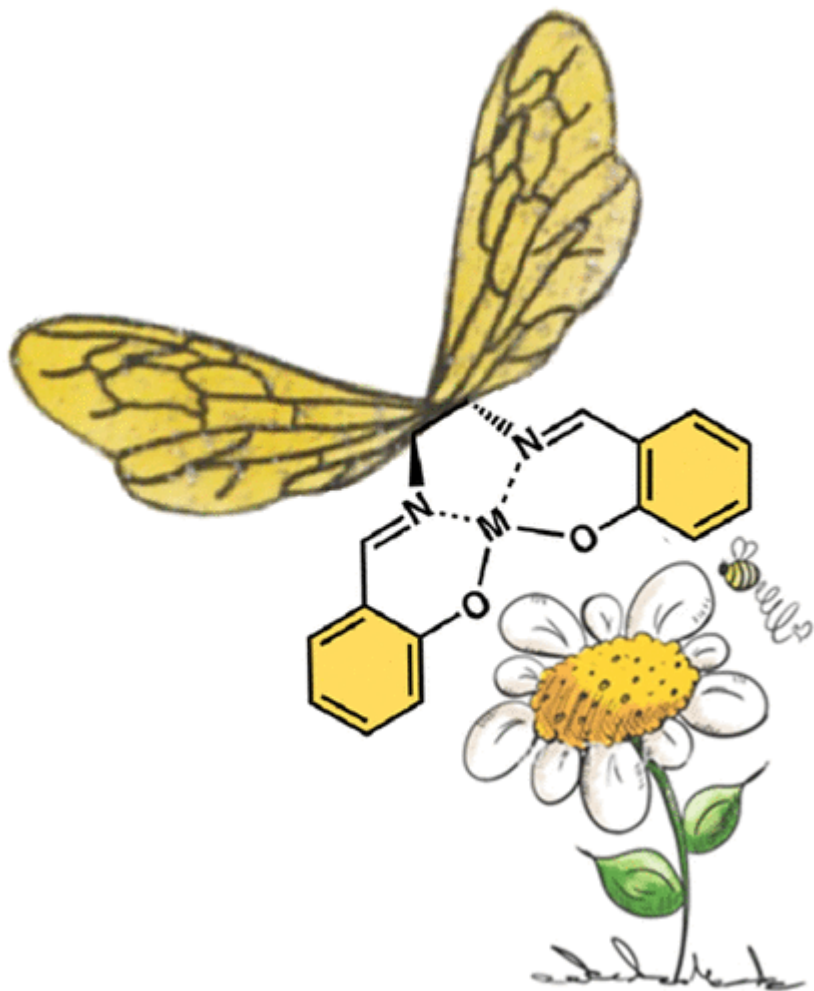


Y.-C. Yuan, M. Mellah, E. Schulz, O.R.P. David

Making Chiral Salen Complexes Work with Organocatalysts

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

DOI:10.1021/acs.chemrev.1c00912

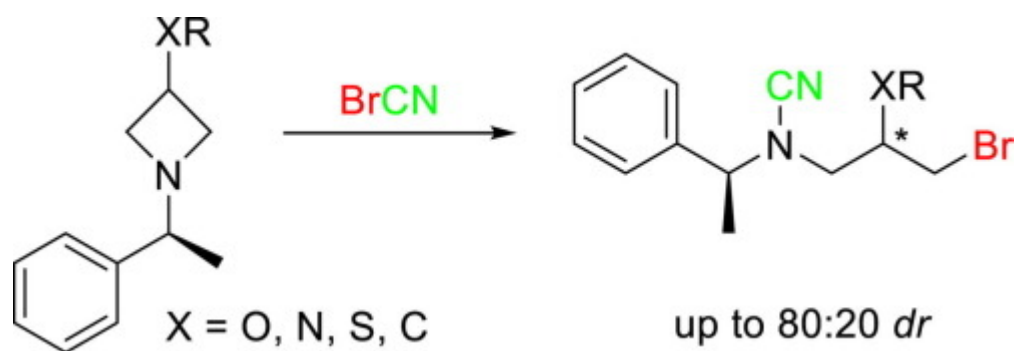


M. Raulin, B. Drouillat, J. Marrot, F. Couty, K. Wright

Diastereoselective ring cleavage of azetidines with cyanogen bromide

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

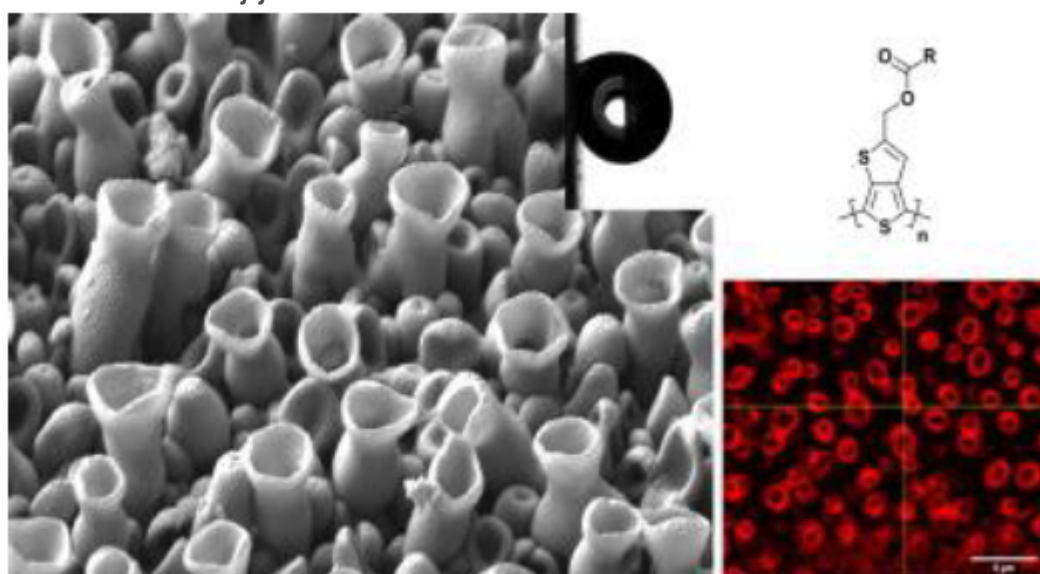
DOI: 10.1016/j.tetlet.2022.153710



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

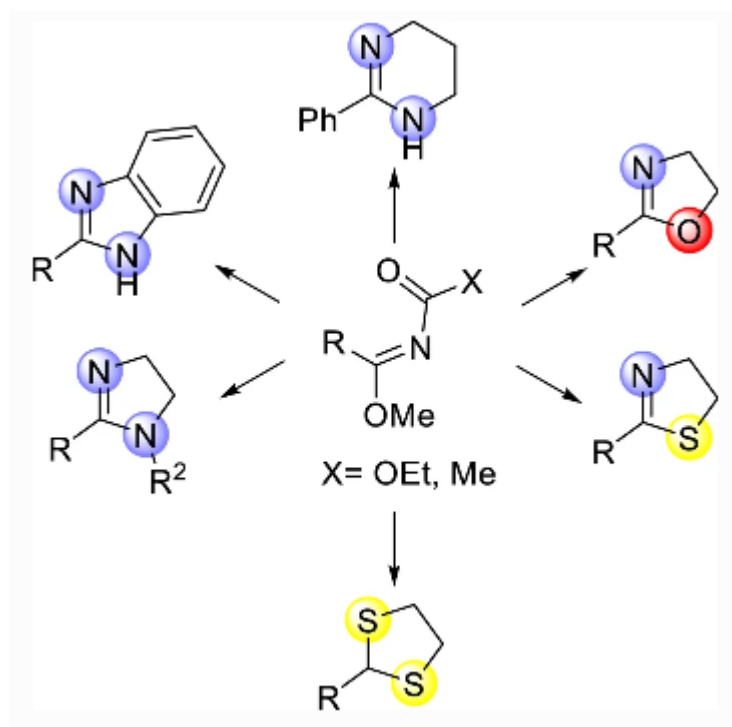


S. Ouni, A Abdelli, A. Gaucher, Y. Arfaoui, D. Prim, M. L. Efrit

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

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

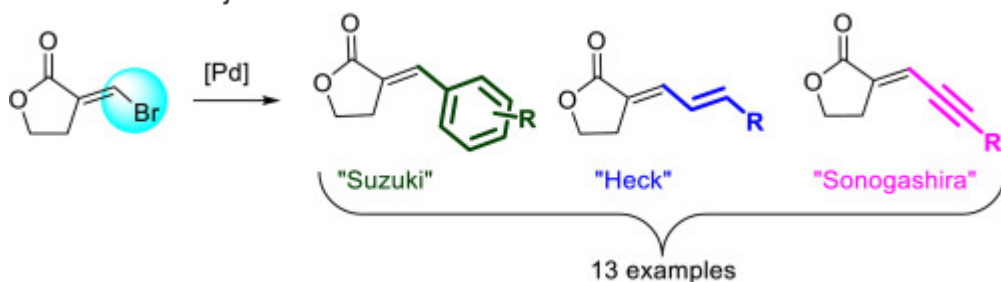
DOI: 10.1007/s42250-022-00452-y



A. Talbi, A. Arfaoui, A. Gaucher, M. L. Efrat, H. M'Rabet, D. Prim
Palladium-Catalyzed Functionalization of α -Methylene Butanolides

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

DOI:10.1016/j.tet.2022.132926

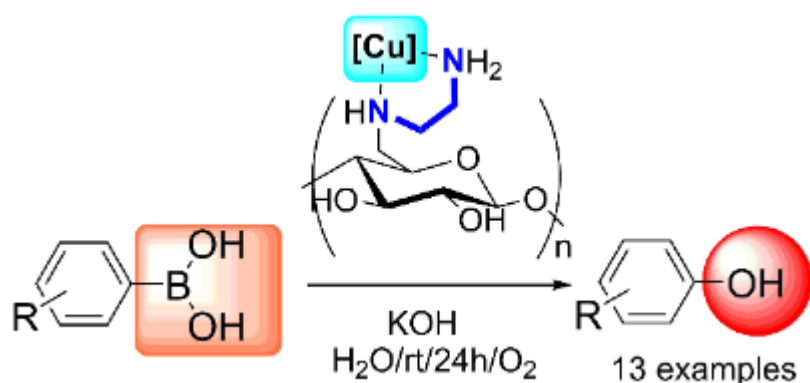


F. Guimarães Torres, F. Simões Teodoro, L.V.A. Gurgel, F. Bourdreux, O. Zayene, A. Gaucher, L. F. Gil, D. Prim

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

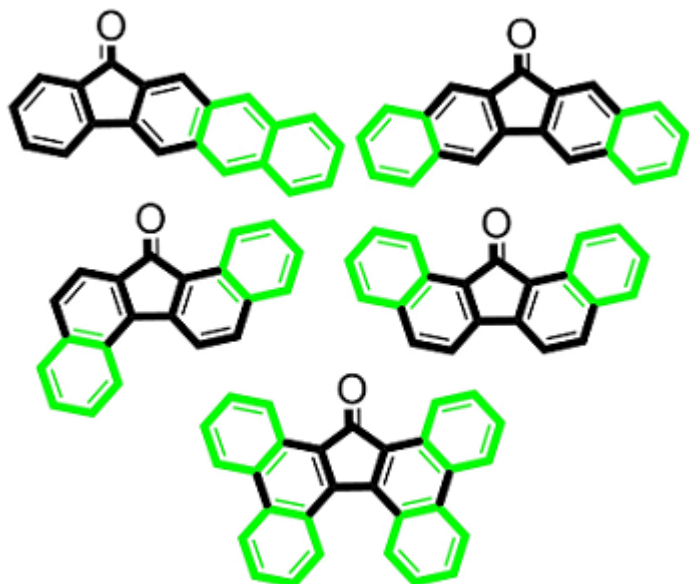


B. Large, D. Prim

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

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

DOI: 10.1002/ejoc.202101032



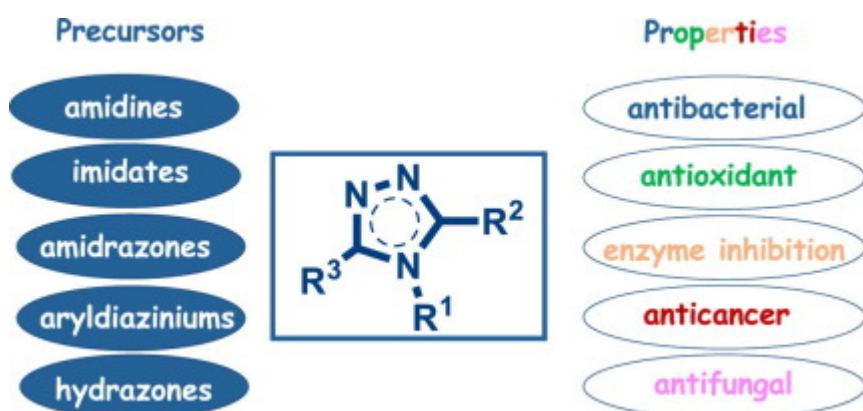
2021

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



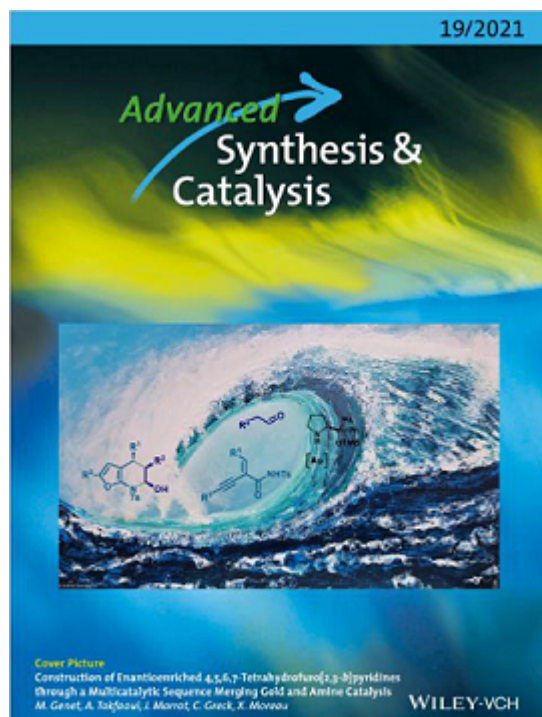
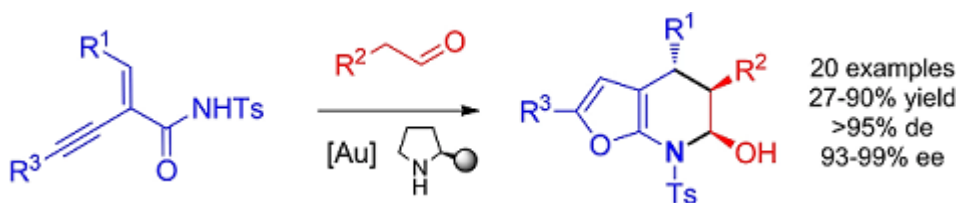
M. Genet, A. Takfaoui, J. Marrot, C. Greck, X. Moreau

Construction of enantioenriched fused bicyclic piperidines through a multicyclic

sequence merging gold and amine catalysis

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

DOI : 10.1002/adsc.202100756

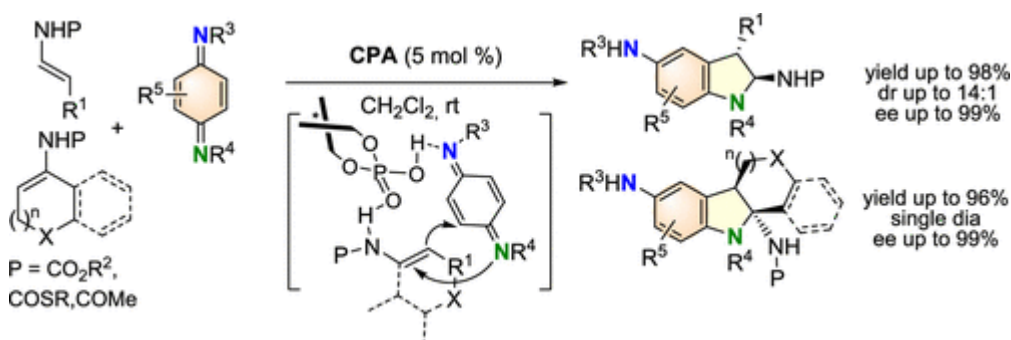


W.-Y. Ma, C. Gelis, D. Bouchet, P. Retailleau, X. Moreau, L. Neuville, G. Masson

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

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

DOI: 10.1021/acs.orglett.0c03947



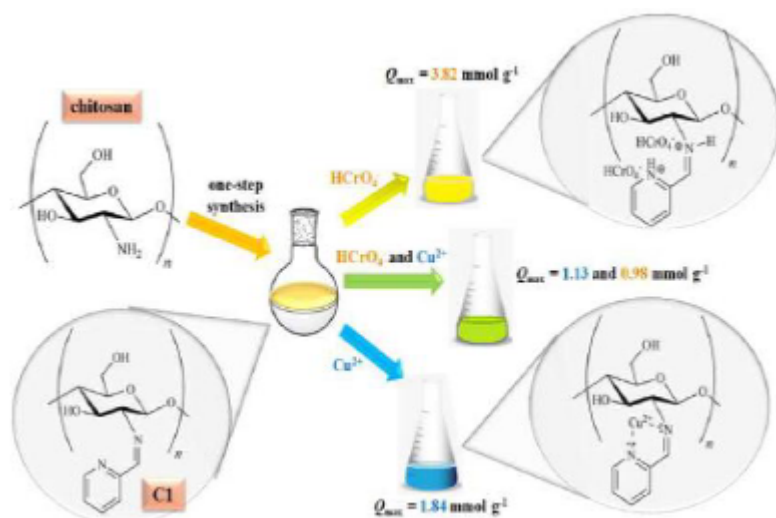
F. J. Gonçalves, L. V. A. Gurgel, L. C. Soares, F. S. Teodoro, G. M. D. Ferreira, Y. L. Coelho, L. H. M. da Silva, D. Prim, L. F. Gil

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

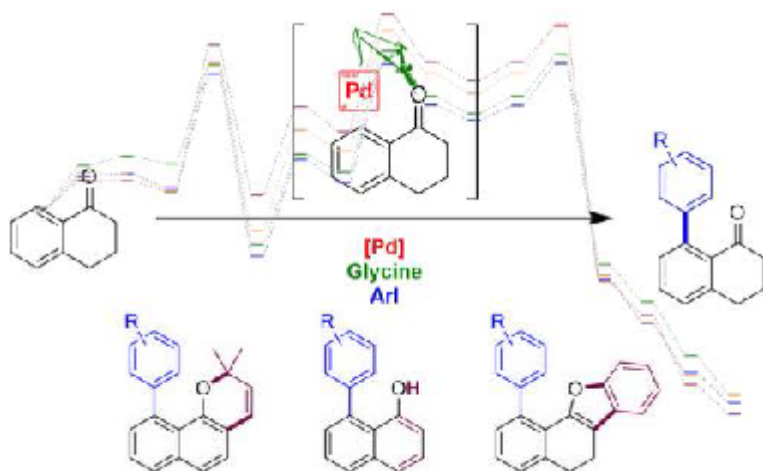


B. Large, D Prim

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

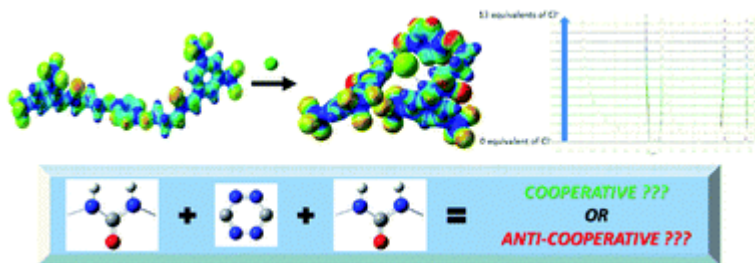


R. Plais, H. Boufroura, G. Gouarin, A. Gaucher, V. Haldys, A. Brosseau, G. Clavier, J.-Y. Salpin, D. Prim

Design and Property Investigation on a Five-Interaction-based Fluorescent Anion Receptor Clip

RSC Advances **2021**, *11*, 9476.

DOI: 10.1039/d1ra00630d



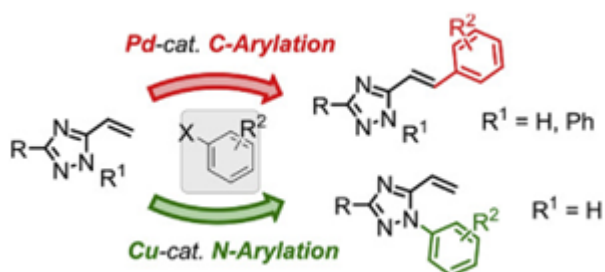
2020

S. Azzouni, A. Gaucher, D. Prim, M. L. Efrat

Orthogonal arylations of 5-vinyl-1,2,4-triazoles.

Tetrahedron **2020**, 76, 130954.

DOI : 10.1016/j.tet.2020.130954

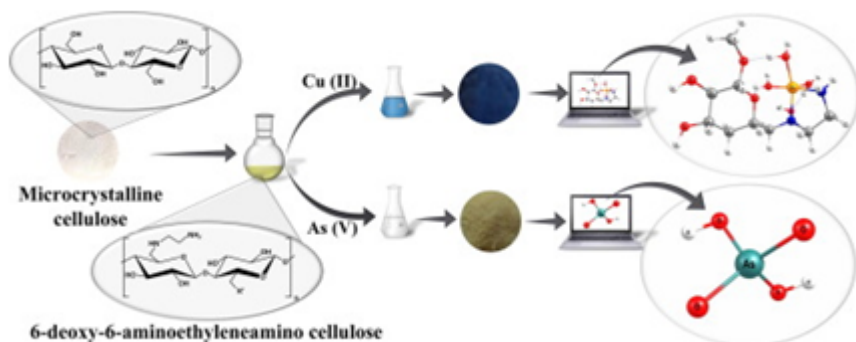


A. R Pereira, L. C. Soares, F. S. Teodoro, M. M. Cota Elias, G. M. Dias Ferreira, R. M. Leal Savedra, M. F. Siqueira, C. Martineau-Corcus, L. H. Mendes da Silva, D. Prim, L. V. A. Gurgel

Aminated cellulose as a versatile adsorbent for batch removal of As(V) and Cu(II) from mono- and multicomponent aqueous solutions

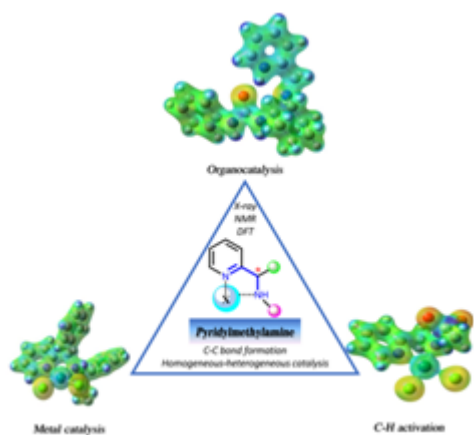
J. Colloid Int. Sci. **2020**, 576, 158.

DOI : 10.1016/j.jcis.2020.04.129



B. Large, R. Plais, A. Gaucher, D. Prim,

Pyridylmethylenamines a modular and underrated family of ligands in both metal- and organo-catalysis



A. Abdelli, H. Gharsa, M. Jmaï, A. Gaucher, M. L. Efrif, 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

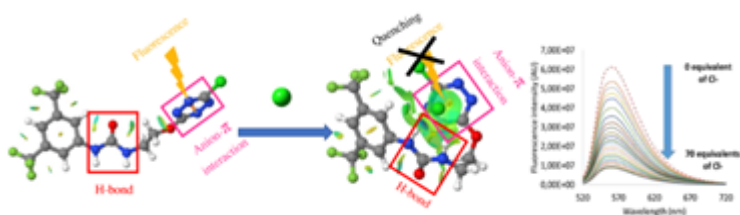
DOI : 10.1016/j.tetlet.2020.151958.



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.

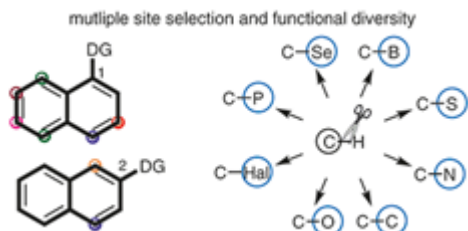


B. Large, D. Prim

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

Synthesis, **2020**, 2600.

DOI : 10.1055/s-0040-1707855.

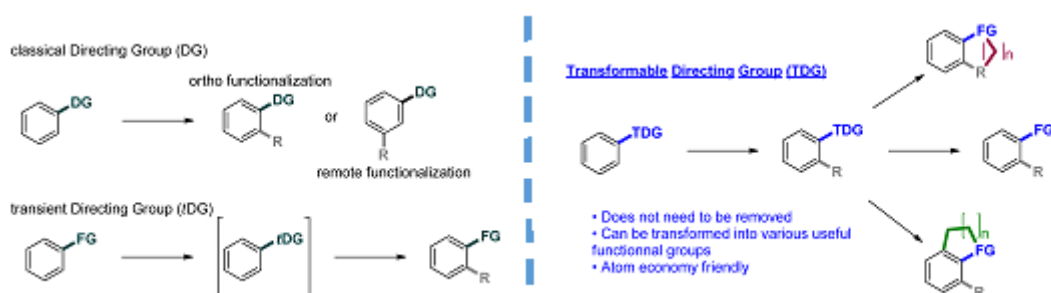


B. Large, V. Terrasson, D. Prim

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

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

DOI : 10.3390/pr8080981.

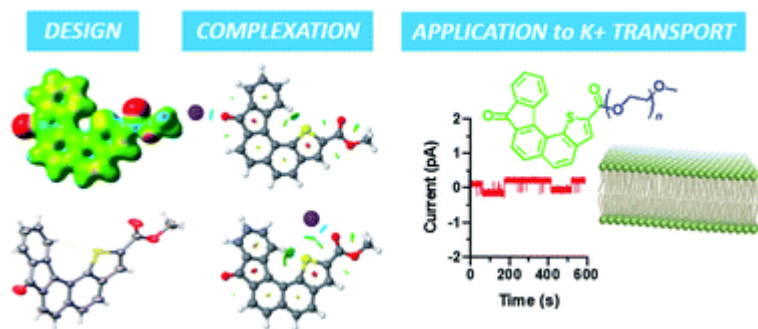


H. Boufroura, R. Plais, S. Poyer, A. Gaucher, J. Marrot, G. Clavier, F.-X. Legrand, C. Huin, P. Guégan, D. Prim, J.-Y. Salpin

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

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

DOI : 10.1039/d0ra05519k.

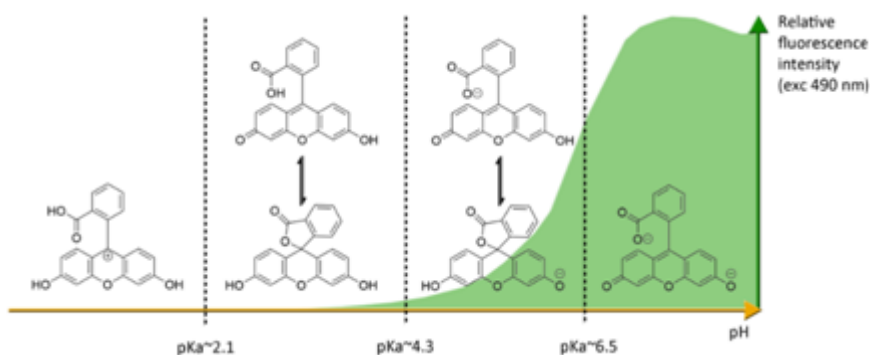


F. Le Guern, V. Mussard, A. Gaucher, M. Rottman, D. Prim

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.

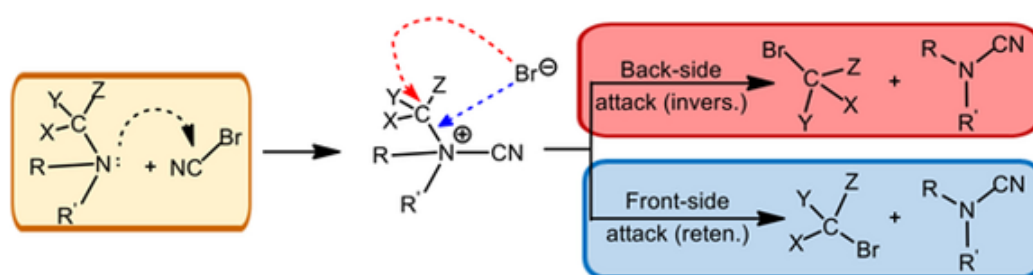
DOI : 10.2021/acs.joc.0c01140.



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

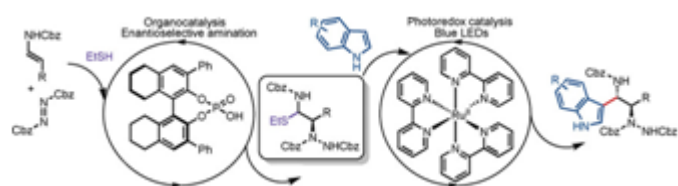
Int. J. Quantum Chem. **2020**, 120, 3, e26088



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

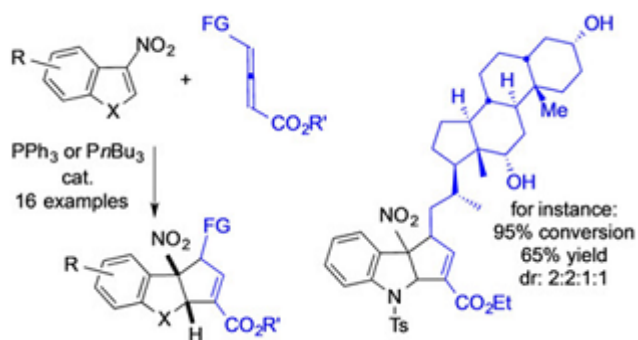
ChemCatChem **2019**, *11*, 5723 (link)



L. Birbaum, L. Gillard, H. Gérard, H. Oulyadi, G. Vincent, X. Moreau, M. De Paolis, I. Chataigner

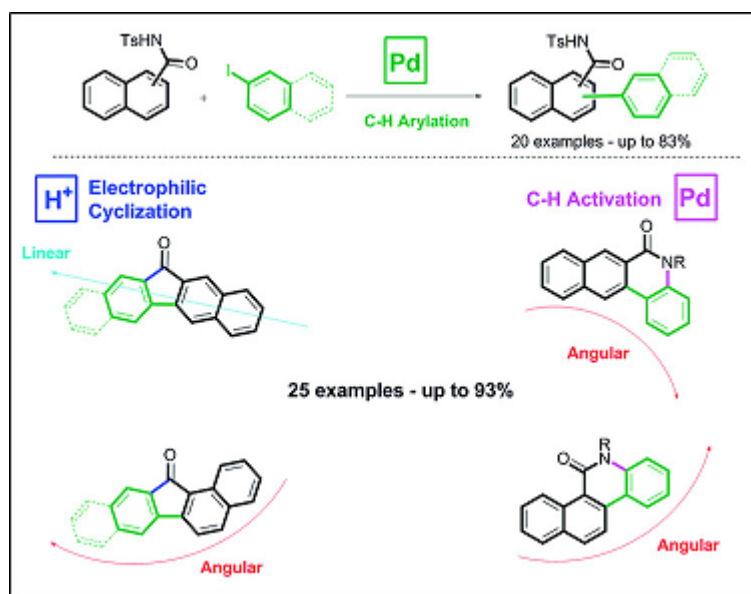
Dearomatization of 3Nitroindoles with Highly Functionalized Allenates in Formal (3+2) Cycloadditions

Chem. Eur. J. **2019**, *25*, 13649 (link)



B. Large, N. Gigant, D. Joseph, G. Clavier, D. Prim.

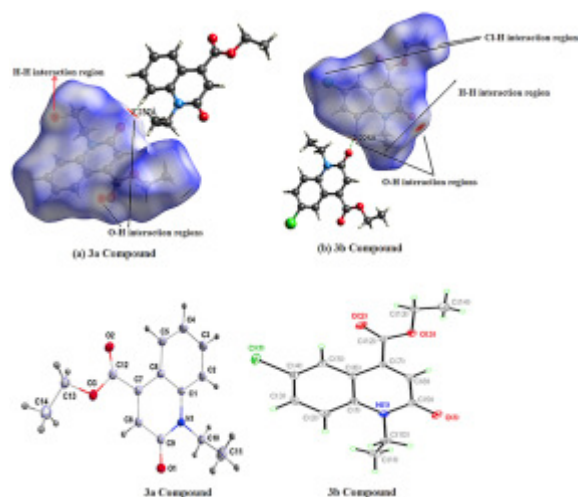
Site-selective arylation of naphthalenes: a key entry towards extended fluorenones and phenanthridinones



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

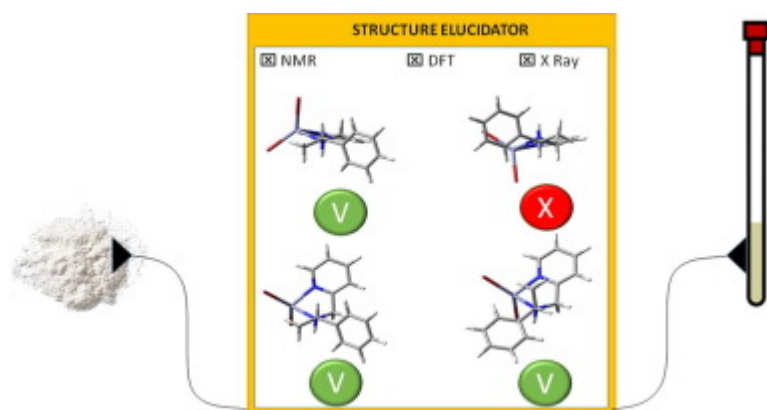
J. Mol. Struct. **2019**, 1188, 255 (link)



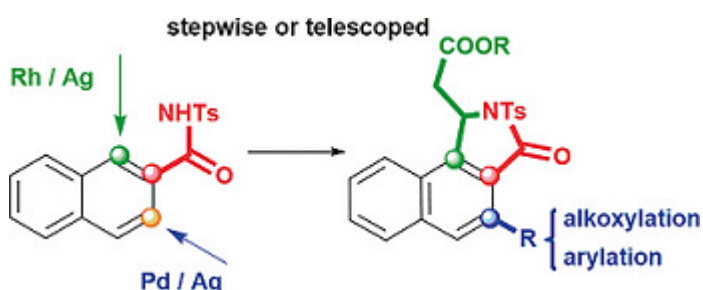
B. Large, M. Meddeb, J. E. H. Pucheta, A. Gaucher, M. Cordier, C. Gosmini, J. Farjon, A. Auffrant, D. Prim

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

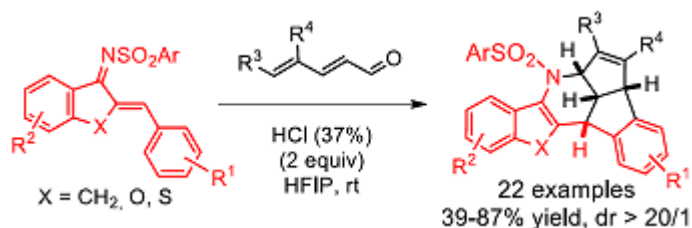
Inorg. Chim. Acta **2019**, 498, 119070 (link)



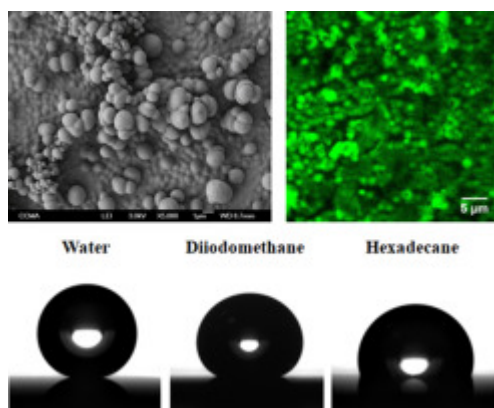
B. Large, N. Gigant, D. Joseph, G. Clavier, D. Prim
RhodiumCatalyzed C–H Activation of Naphthamides for the Synthesis of Substituted 3HBenzo[e]isoindolin3ones
Eur. J. Org. Chem. **2019**, 6407 (link)



A.-S. Marques, T. Duhaill, 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)



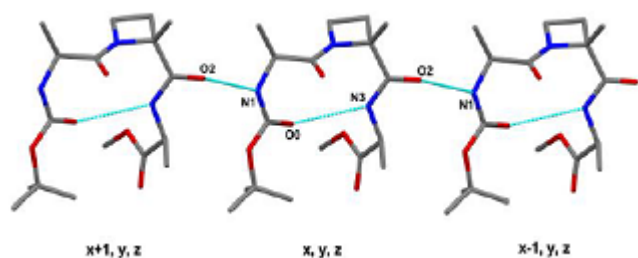
G. R. Chagas, G. M. Cruz, R. Méallet-Renault, A. Gaucher, D. Prim, D. E. Weibel, S. Amigoni, F. Guittard, T. Darmanin
Superhydrophobic and fluorescent properties of fluorinated polypyrene surfaces using various polar linkers prepared via electropolymerization
React. Funct. Polym. **2019**, 135, 65 (link)



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

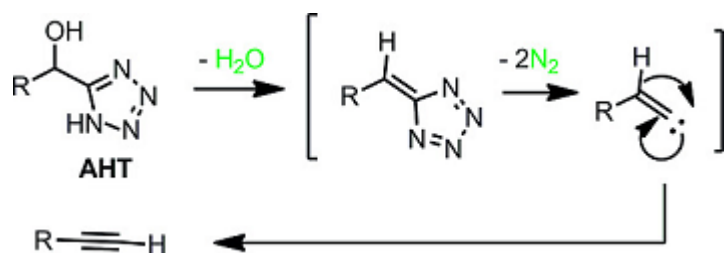
J. Pep. Sci. **2019**, *25*, e3165 (link)



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

HydroxyTetrazoles as Latent Ethynyl Moieties: A Mechanistic Investigation

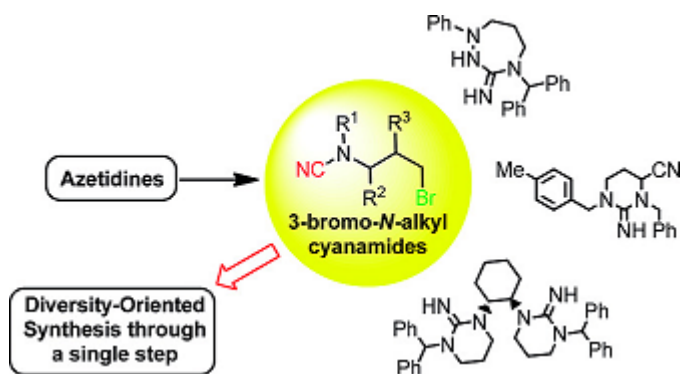
Eur. J. Org. Chem. **2019**, 342 (link)



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

3Bromo NAlkyl Cyanamides as Versatile Building Blocks

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

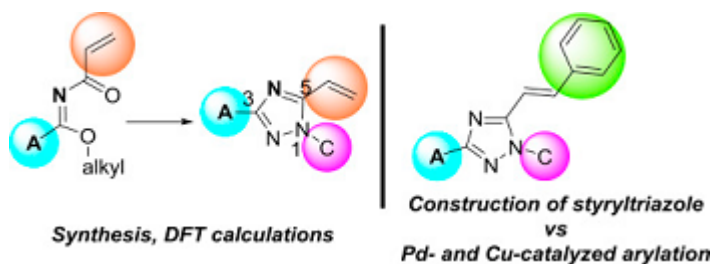


2018

S. Azzouni, A. Abdelli, A. Gaucher, Y. Arfaoui, M. L. Efrif, D. Prim

From imidates to vinyl-1,2,4- triazoles: Synthesis, mechanistic aspects and first issues of their reactivity

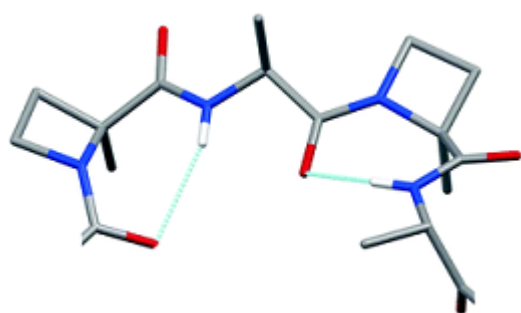
Tetrahedron **2018**, *74*, 6972 (link)



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

A novel peptide conformation : the gamma-bend ribbon

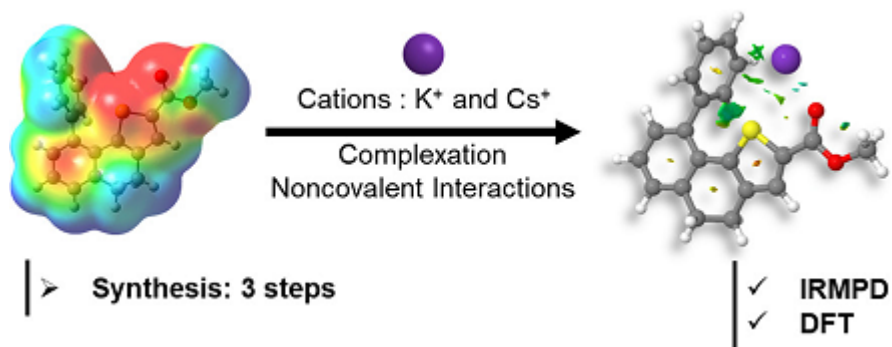
Org. Biomol. Chem. **2018**, *16*, 7947 (link)



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

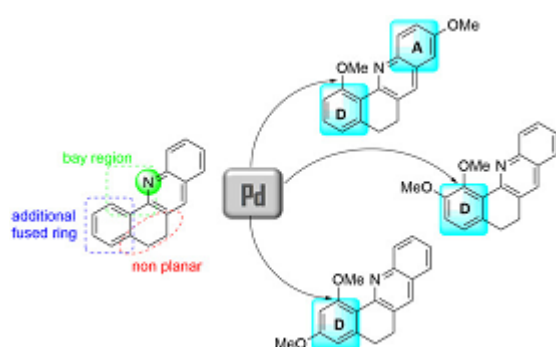
Chem. Eur. J. **2018**, *24*, 8656 (link)



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-Corcus, L. V. A. Gurgel, L. F. Gil, D. Prim

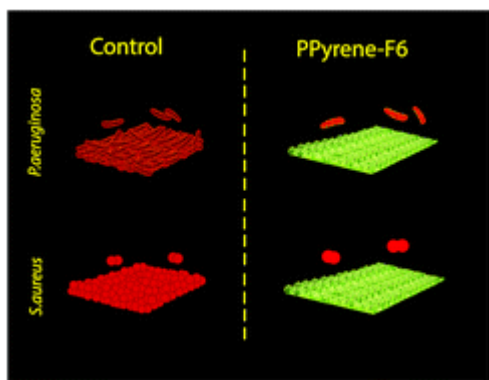
Synthesis, characterisation and application of pyridine-modified chitosan derivatives for the first non-racemic Cu-catalysed Henry reaction

Carbohydr. Polym. **2018**, *181*, 1206 (link)

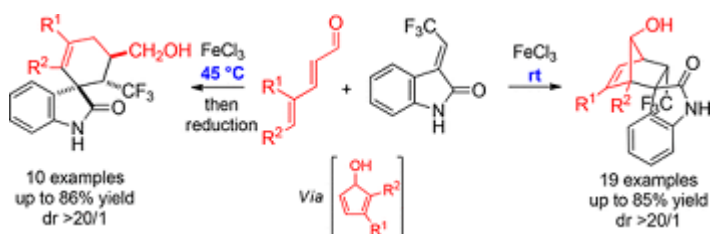
G. Morán, G. Ramos-Chagas, S. Hugelier, X. Xie, R. Boudjemaa, C. Ruckebusch, M. Sliwa, T. Darmanin, A. Gaucher, D. Prim, G. Godeau, S. Amigoni, F. Guittard, R. Méallet-Renault

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)



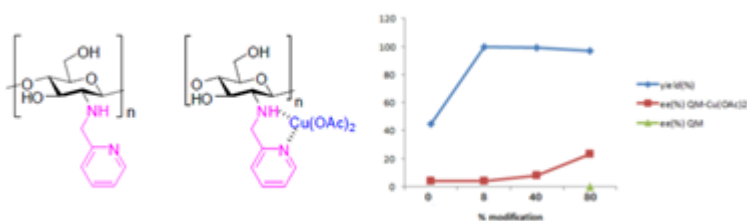
A.-S. Marques, J. Marrot, I. Chataigner, V. Coeffard, G. Vincent, X. Moreau
In Situ Generation of Cyclopentadienol Intermediates from 2,4-Dienals. Application to the Synthesis of Spirooxindoles via a Domino Polycyclization
Org. Lett. **2018**, *20*, 792 (link)



F. Jorge Goncalves, F. Kamal, A. Gaucher, R. Gil, F. Bourdreux, C. Martineau-Corcus, 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

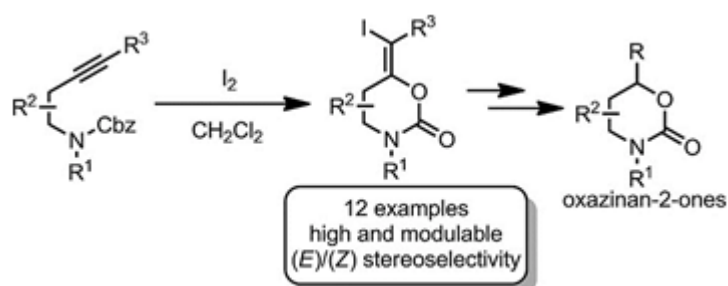
Carbohydrate Polymers **2018**, *181*, 1206 (link)



2017

P. Quinodoz, A. Quelhas, K. Wright, B. Drouillat, J. Marrot, F. Couty
Iodocarbamation of N-homopropargyl carbamates : mild and stereoselective entry to functionalized oxazinan-2-ones

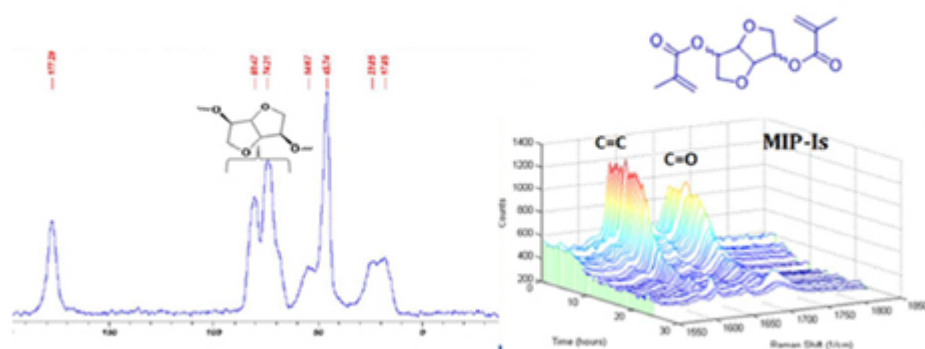
Eur. J. Org. Chem. **2017**, 2621 (link)



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.

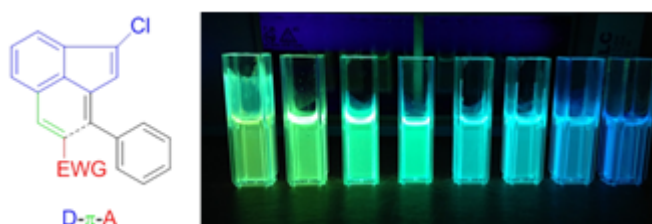
J. Mol. Recognition **2017**, *30*, e2594 (link)



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

Synthesis and Fluorosolvatochromic Properties of 1,7-Annulated Indoles

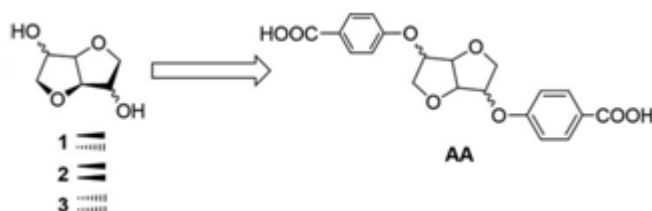
New J. Chem. **2017**, *41*, 7331 (link)



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

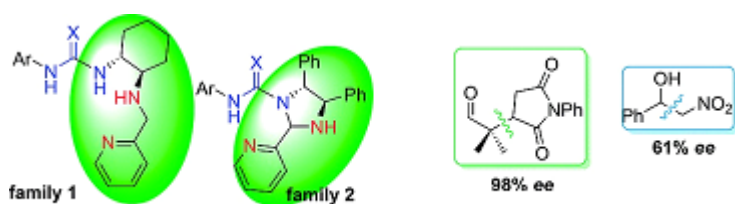
New biosourced AA and AB monomers from 1,4:3,6-dianhydrohexitols, Isosorbide, Isomannide and Isoidide.

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

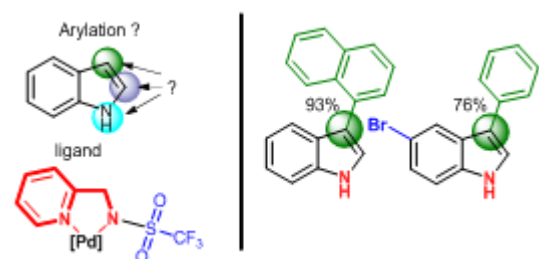
Eur. J. Org. Chem. **2017**, 746 (link)



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

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

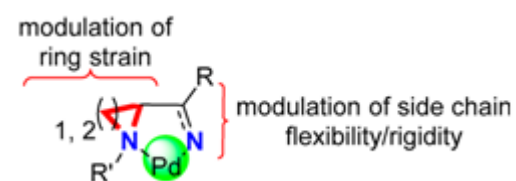
ChemCatChem **2017**, 9, 389 (link)



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

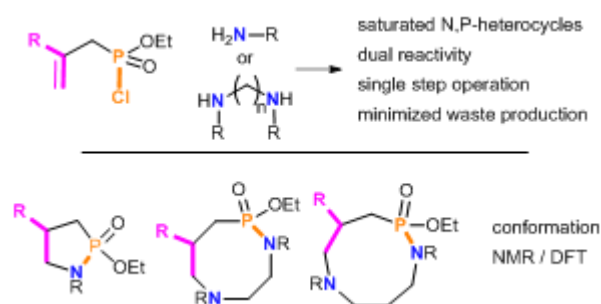
Aziridine- and azetidione-Pd catalytic combinations. Synthesis and evaluation of the ligand ring size impact on Suzuki-Miyaura reaction issues.

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

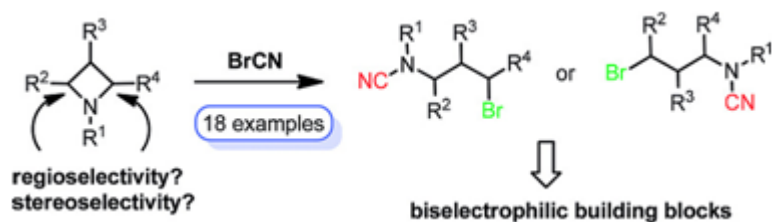
Easy access to 1,2-azaphospholidines through novel one pot nucleophilic addition - aza-Michael addition sequence. Extension to the preparation of azaphosphacane and azaphosphanane analogues.



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

The Von Braun reaction applied to azetidines

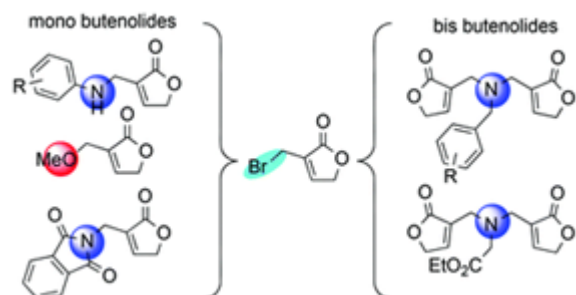
Eur. J. Org. Chem. **2017**, 7195 (link)



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

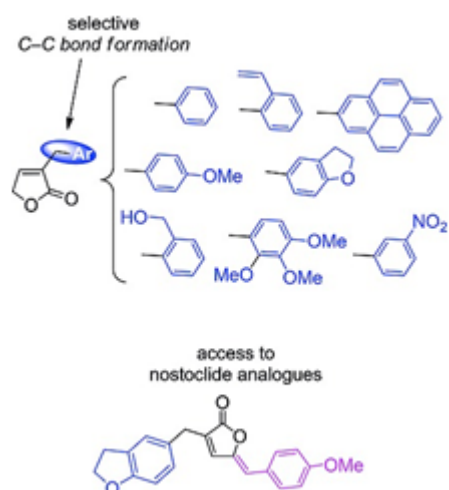
Org. Biomol. Chem. **2017**, *15*, 3298 (link)



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

Straightforward and regioselective access to -benzyl unsaturated butyrolactones

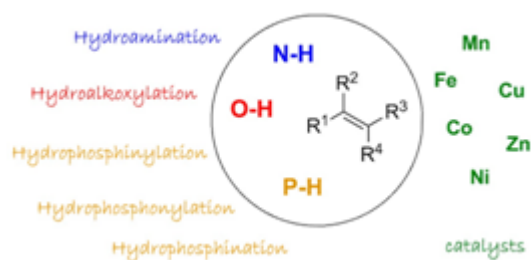
Eur. J. Org. Chem. **2017**, 5246 (link)



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

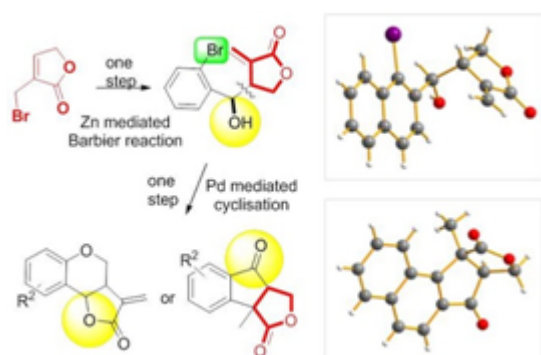
Molecules **2017**, *22*, 1901 (link)



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

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

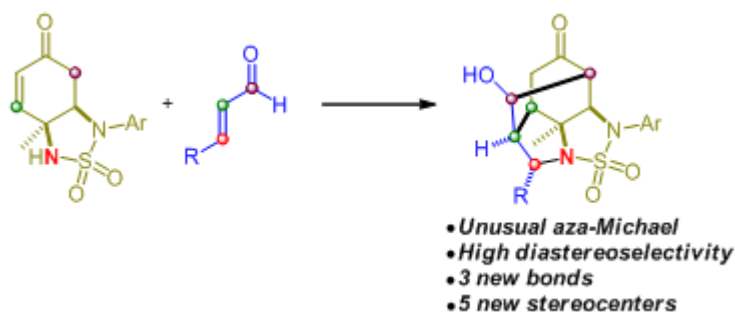
Molecules **2017**, *22*, 2171 (link)



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

Stereoselective multibond-forming process towards functionalized sulfamide-containing polycycles

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

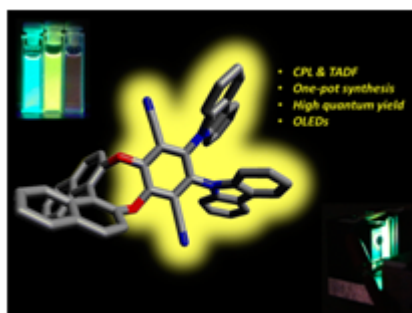


2016

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.

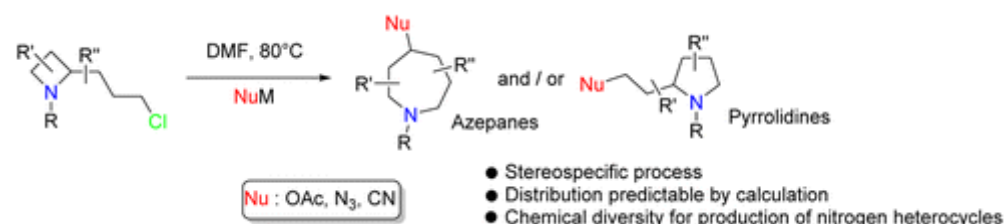
J. Am. Chem. Soc. **2016**, *138*, 3990 (link)



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

Competitive Ring Expansion of Azetidines into Pyrrolidines and/or Azepanes

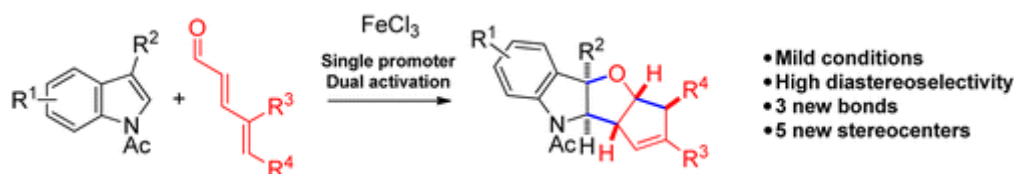
J. Org. Chem. **2016**, *81*, 6677 (link)



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

N-Arylazetidines: Preparation through Anionic Ring Closure

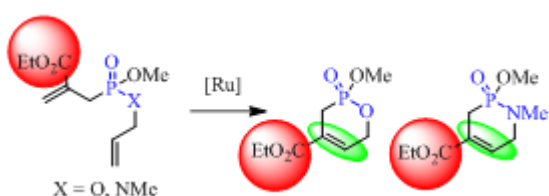
J. Org. Chem. **2016**, *81*, 2899 (link)



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

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

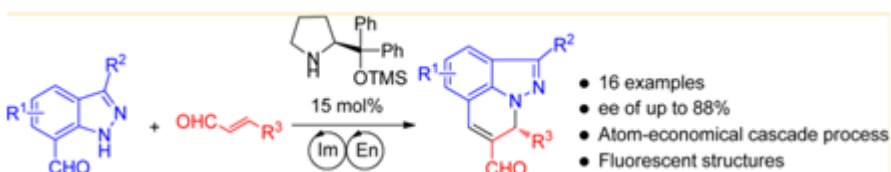
Tetrahedron Lett. **2016**, *57*, 379 (link)



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)

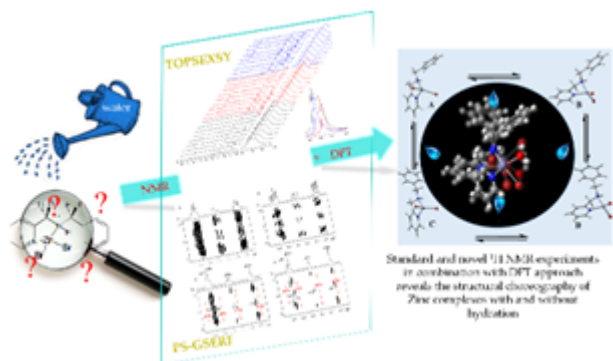


J. E. Herbert Pucheta, J.-M. Gillet, D. Prim, J. Farjon

Deciphering the conformational choreography of Zn-coordination complexes with

the help of standard and novel proton NMR techniques combined with DFT methods.

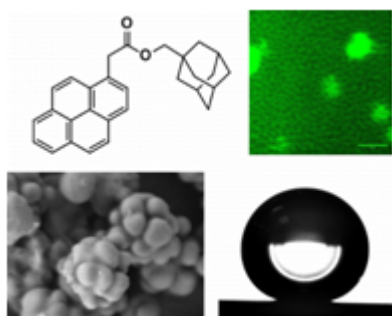
ChemPhysChem **2016**, *17*, 1034 (link)



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.

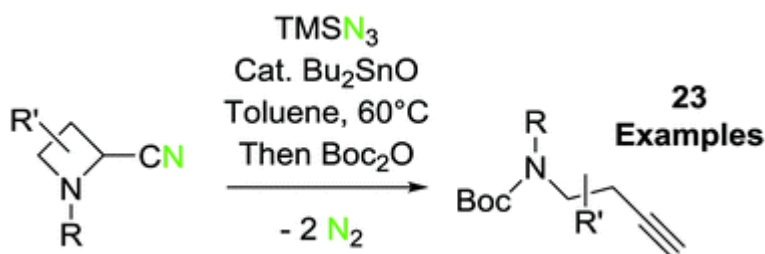
J. Phys. Chem. C **2016**, *120*, 7077 (link)



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

Synthesis of homopargylamines from 2-cyanoazetidines

Chem. Commun. **2016**, *52*, 10072 (link)

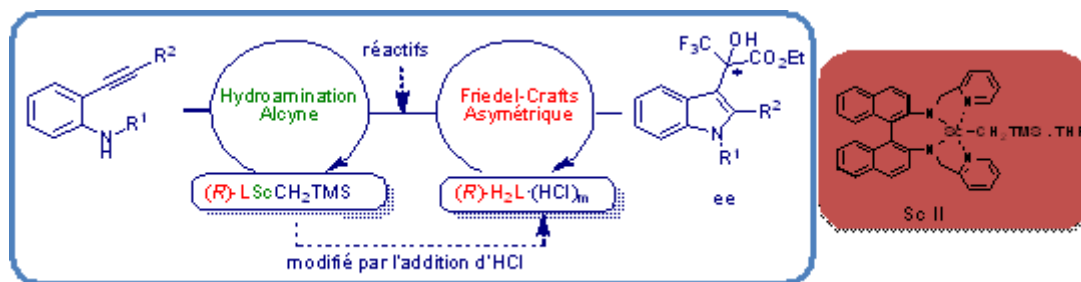


A. Aillerie, V. Rodriguez-Ruiz, R. Carlino, F. Bourdreux, R. Guillot, S. Bezenine-Lafollée, R. Gil, D. Prim, J. Hannedouche

Asymmetric Assisted Tandem Catalysis: Hydroamination followed by Asymmetric Friedel-Crafts reaction from a single chiral N, N, N', N'-tetradentate

pyridylmethylamine-based ligand.

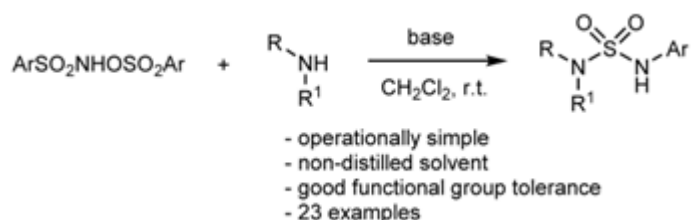
ChemCatChem. **2016**, *8*, 2455 (link)



L. Pantaine, F. Richard, J. Marrot, X. Moreau, V. Coeffard, C. Greck

Efficient Synthesis of Unsymmetrical Sulfamides via a Lossen-Like Rearrangement

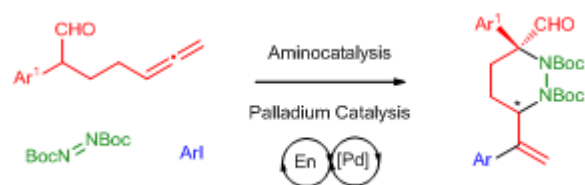
Adv. Synth. Catal. **2016**, *358*, 2012 (link)



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

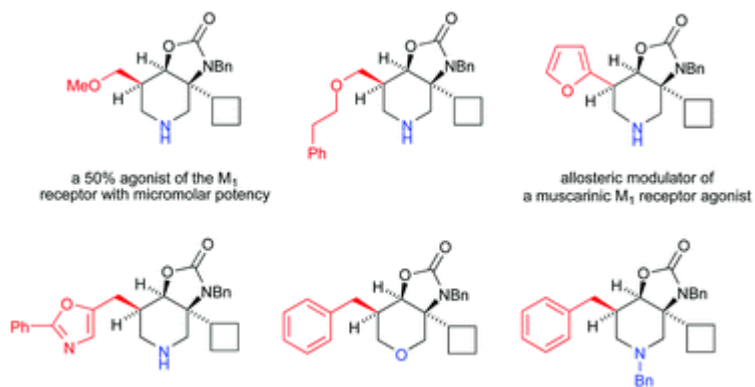
Org. Biomol. Chem. **2016**, *14*, 2828 (link)



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)

