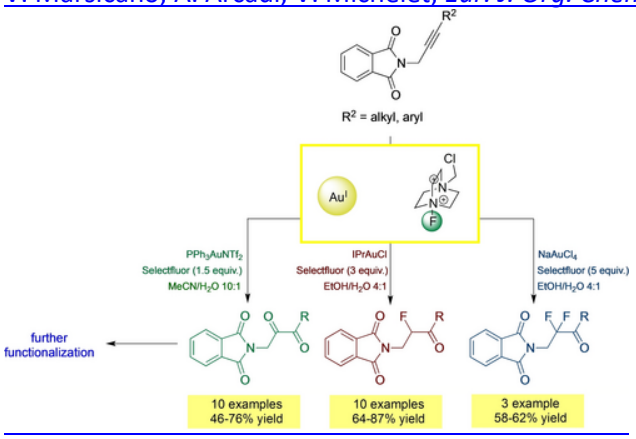
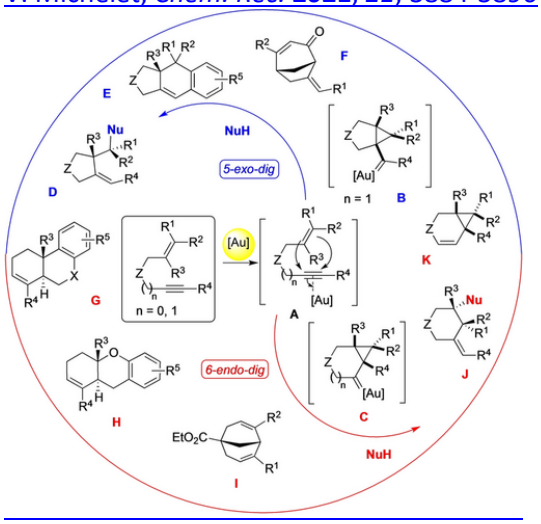
2021

Gold-Catalyzed Regioselective Oxyfluorination/Oxydifluorination vs. Diketonization of Phthalimido-Protected Propargylamines with Selectfluor
V. Marsicano, A. Arcadi, V. Michelet, *Eur. J. Org. Chem.* **2022**, e202101524

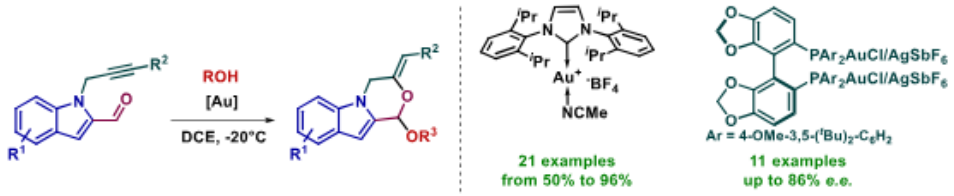


Gold-catalyzed reactions towards diversity: from simple substrates to functionalized carbo- and heterocycles
V. Michelet, *Chem. Rec.* **2021**, *21*, 3884-3896



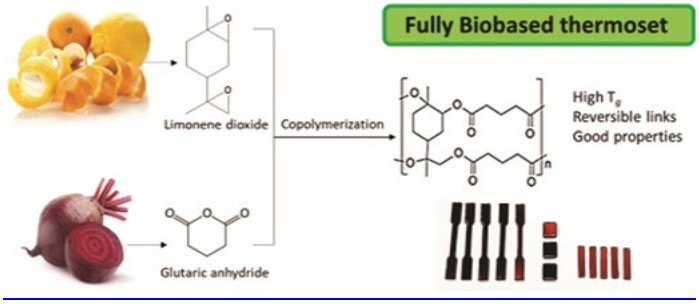
La catalyse à l'or en parfumerie
R. Laher, C. Marin, V. Michelet, *l'Actualité Chimique* **2021**, *467*, 55-56

Gold-Catalyzed Domino Cycloisomerization/Alkoxylation: an Entry to 3,4-Dihydro-1*H*-[1,4]oxazino[4,3-*a*]indole
A. Dupeux, V. Michelet, *J. Org. Chem.* **2021**, *86*, 17738-17747



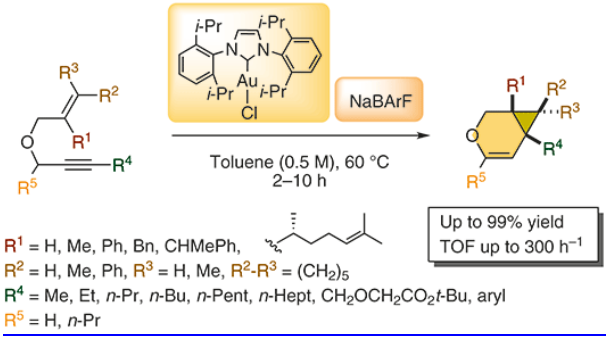
Limonene dioxide as building blocks for 100% bio-based thermosets

A. Mija, E. Louisy, S. Lachegur, V. Khodyrieva, P. Martinaux, S. Olivero, V. Michelet, *Green Chem.* **2021**, *23*, 9855-9859



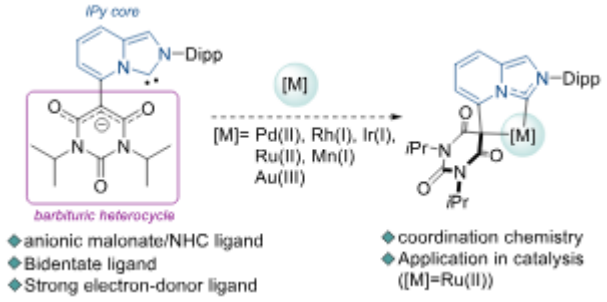
Oxygen-tethered 1,6-enynes and [4.1.0]-Bicyclic ether skeletons as hedonic materials for the fragrance industry

R. Laher, E. Gentilini, C. Marin, V. Michelet, *Synthesis* **2021**, *53*, 4020-4029



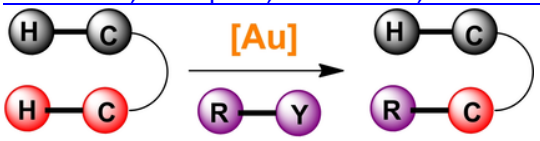
An Anionic, Chelating C(sp^3)/NHC ligand from the Combination of an N-heterobicyclic Carbene and Barbituric Heterocycle

I. Benaissa, K. Gajda, L. Vendier, N. Lugan, A. Kajetanowicz, K. Grela, V. Michelet, V. César, S. Bastin, *Organometallics* **2021**, *40*, 3223-3234



Catalytic Gold Chemistry: From Simple Salts to Complexes for Regioselective C-H Bond Functionalization

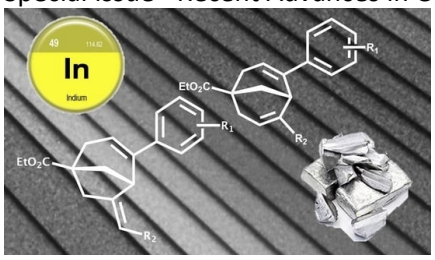
C. Praveen, A. Dupeux, V. Michelet, *Chem. Eur. J.* **2021**, *27*, 10495-10532



Indium-Catalyzed Cycloisomerization of 1,6-Cyclohexenylalkynes

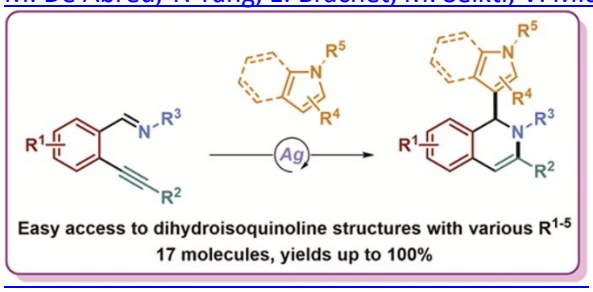
V. Davenel, C. Puteaux, C. Nisole, F. Fontaine-Vive, J.-M. Fourquez, V. Michelet, *Catalysts* **2021**, *11*, 546

Special Issue - Recent Advances in Organometallic Chemistry and Catalysis



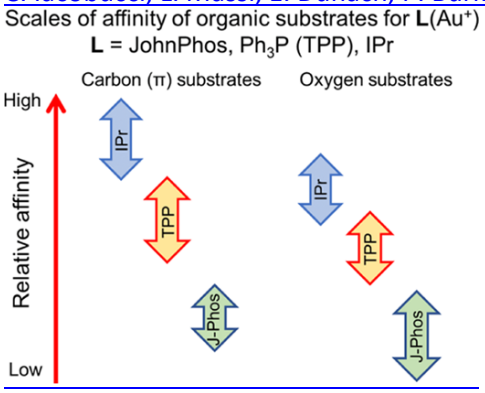
Silver-catalyzed tandem cycloisomerization/hydroarylation reactions and mechanistic investigations for an efficient access to 1,2-dihydroisoquinolines

M. De Abreu, Y. Tang, E. Brachet, M. Selkti, V. Michelet, P. Belmont, *Org. Biomol. Chem.* **2021**, *19*, 1037-1046



Energetics and Structures of Adducts of JohnPhos(Au^+), $PPh_3(Au^+)$, and IPr(Au^+) with Organic Substrates: A Mass Spectrometry and DFT Study

C. Iacobucci, L. Massi, E. Duñach, P. Burk, J.-F. Gal, *Organometallics* **2021**, *40*, 1642-1653

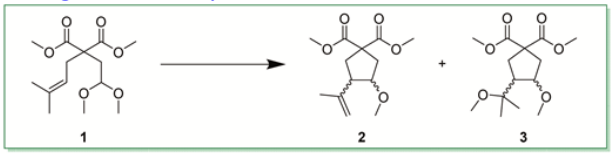


Chemical Characterization and Antibacterial Efficacy of Essential Oils of Three Lamiaceae Species Growing in Cameroon

H. G. Mbuntcha, H. P. Dogmo Fogang, V. Woguem, P. Sonkoue, P. Kenfack, K. Djeuga, C. Schippa, E. Duñach, J. A. Seukep, S. T. Lacmata, T. Fonkou, L. A. Tapondjou, H. M. Womeni, *Journal of Diseases and Medicinal Plants* **2021**, *7*, 14-21

$Bi(OTf)_3$-catalysed intramolecular cyclisation of unsaturated acetals

R. Saget, P. Jaunky, E. Duñach, *RSC Adv.* **2021**, *11*, 21066-21072



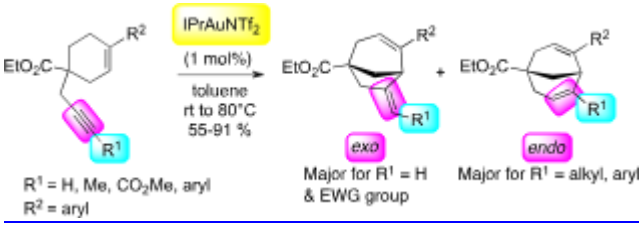
Selective formation of **2**: $Bi(OTf)_3$/ CH_2Cl_2

Selective formation of **3**: $Fe(OTf)_3$/ $MeNO_2$

2020

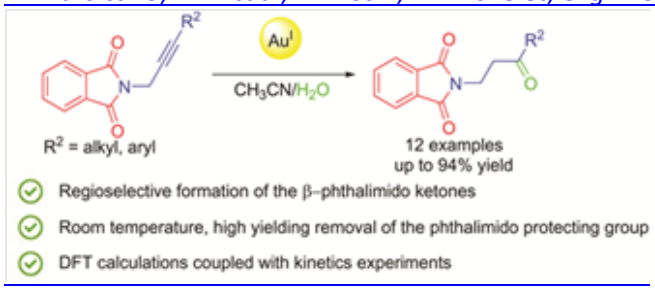
Gold-Catalyzed Cycloisomerization of 1,6-Cyclohexenylalkyne: An Efficient Entry to Bicyclo[3.2.1]oct-2-ene and Bicyclo[3.3.1]nonadiene

V. Davenel, C. Nisole, F. Fontaine-Vive, J.-M. Fourquez, A.-M. Chollet, V. Michelet, *J. Org. Chem.* **2020**, *85*, 12657-12669



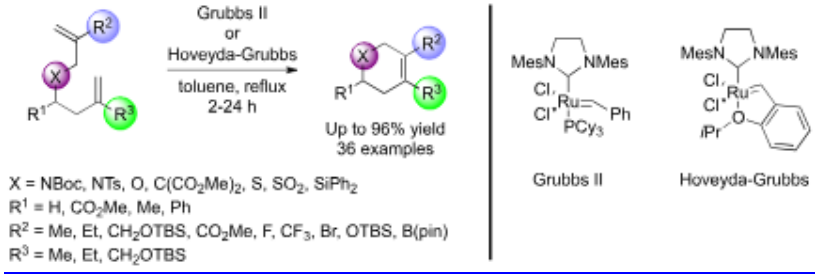
Experimental and Computational Evidences on Gold-Catalyzed Regioselective Hydration of Phthalimido-Protected Propargylamines: An Entry to *β*-Amino Ketones

V. Marsicano, A. Arcadi, M. Aschi, V. Michelet, *Org. Biomol. Chem.* **2020**, *18*, 9438-9447



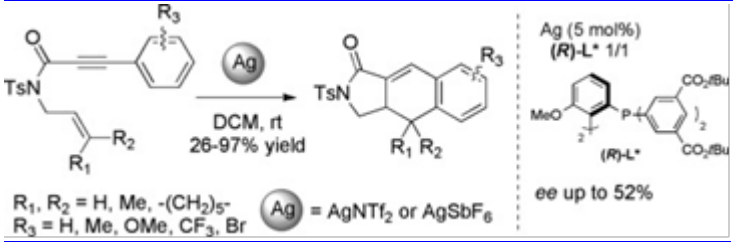
Ruthenium Metathesis: A Key Step To Access a New Cyclic Tetrasubstituted Olefin Platform

C. F. Heinrich, D. Durand, J. Starck, V. Michelet, *Org. Lett.* **2020**, *22*, 7064-7067



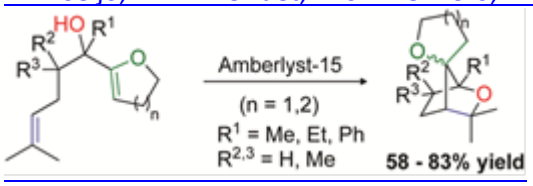
Silver-catalyzed intramolecular [4 + 2] cycloaddition reaction of amide-1,6-enynes

X. Chen, F. Fontaine-Vive, S. Poulain-Martini, V. Michelet, *Catal. Commun.* **2020**, *147*, 106117



Heterogeneous catalysis for the tandem cyclisation of unsaturated alcohols

L. Seijo, P. Ondet, S. Olivero, E. Duñach, *New J. Chem.* **2020**, *44*, 10479-10483



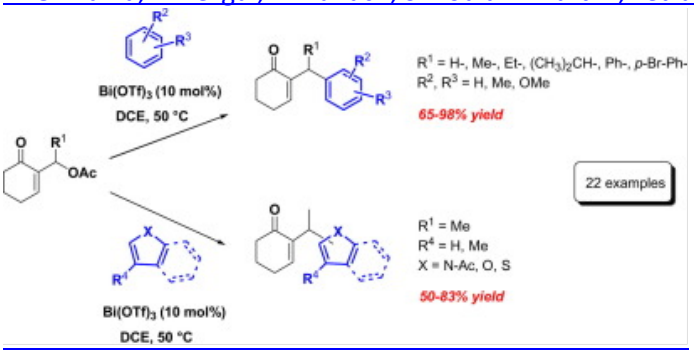
When Gold Meets Perfumes: Synthesis of Olfactive Compounds via Gold-Catalyzed Cycloisomerization Reactions

R. Laher, C. Marin, V. Michelet, *Org. Lett.* **2020**, *22*, 4058-4062



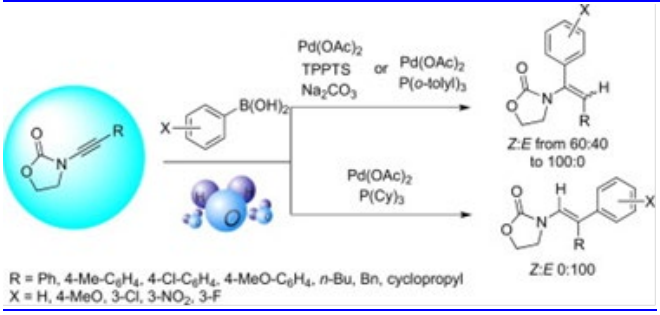
$Bi(OTf)_3$-catalysed regioselective arylation of Morita-Baylis-Hillman type allylic electrophiles

A. Omrania, F. Rezgui, E. Dunach, S. Poulain-Martini, *Tetrahedron Lett.* **2020**, *61*, 151758



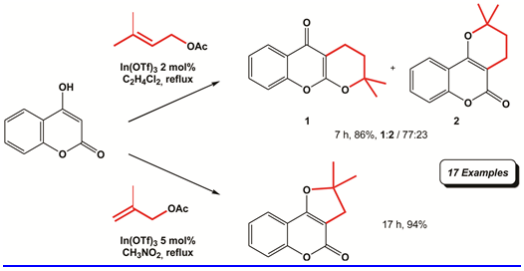
Room temperature palladium-catalyzed hydroarylation of ynamides in water

A. Di Nicola, V. Marsicano, A. Arcadi, V. Michelet, *Tetrahedron Lett.* **2020**, *61*, 151725



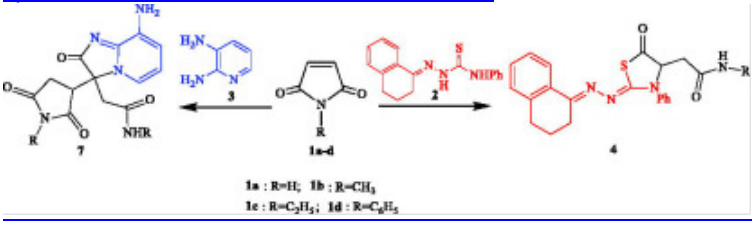
In$(OTf)_3$-Catalysed Easy Access to Dihydropyranocoumarin and Dihydropyranochromone Derivatives

N. Boufroua, E. Dunach, F. Fontaine-Vive, S. Achouche-Bouzroura, S. Poulain-Martini, *New J. Chem.* **2020**, *44*, 6042-6052



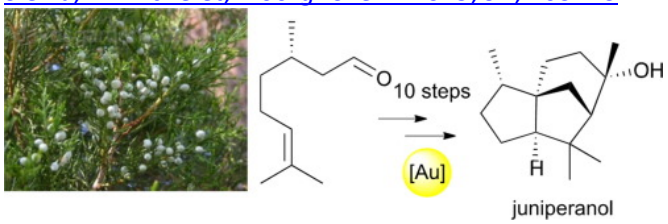
Synthesis of functionalized dihydroimidazo[1,2-*A*]pyridines and 4-thiazolidinone derivatives from maleimide, as new class of antimicrobial agents

L. Salhi, S. Achouche-Bouzroura, R. Nechak, B. Nedjar-Kolli, C. Rabia, H. Merazig, S. Poulain-Martini, E. Duñach, *Synth. Commun.* **2019**, *50*, 2019, 412-422

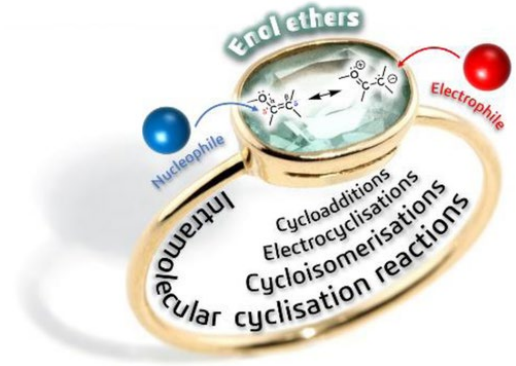


2019

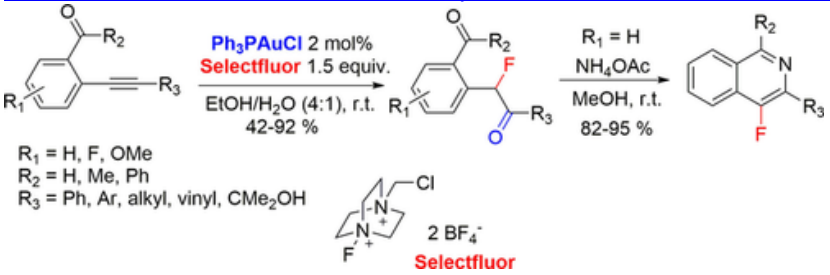
Juniperanol: First Total Synthesis and Evaluation in type 2 Diabetes Disease
A. Carrër, S. Turban, N. Provost, A. Caliez, G. Lamarche, G. Zanirato, M. Beucher, C. Pean, O. Mirguet, F. Perron-Sierra, V. Michelet, *Bioorg. Chem.* **2019**, *92*, 103243



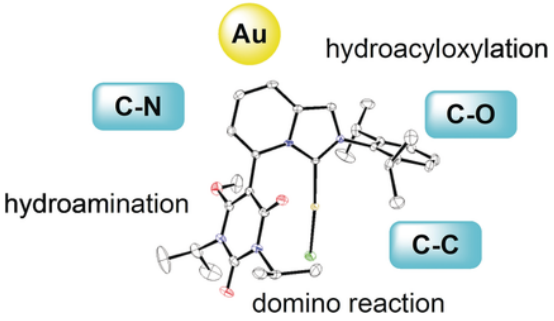
Cyclisation Reactions Involving Alkyl Enol Ethers
L. Lempenauer, G. Lemière, E. Duñach. *Adv. Synth. Catal.* **2019**, *361*, 5284-5304



A mild and regioselective synthesis of α-fluoroketones via gold and Selectfluor partnership
X. Chen, S. Martini, V. Michelet, *Adv. Synth. Catal.* **2019**, *361*, 3612-3618



An Original L-shape, Tunable *N*-Heterocyclic Carbene Platform for Efficient Gold(I) Catalysis
Y. Tang, I. Benaissa, M. Huynh, L. Vendier, N. Lugan, S. Bastin, P. Belmont, V. César, V. Michelet, *Angew. Chem. Int. Ed.* **2019**, *58*, 7977-7981



The electron-poor vinylcyclopropanes in organometallic catalysis: interesting skeletons with various reactivities
M. Laugeois, M. Vitale, V. Michelet, V. Ratovelomanana-Vidal, *Transit. Met. Chem.***2019**, *19*, 1-35

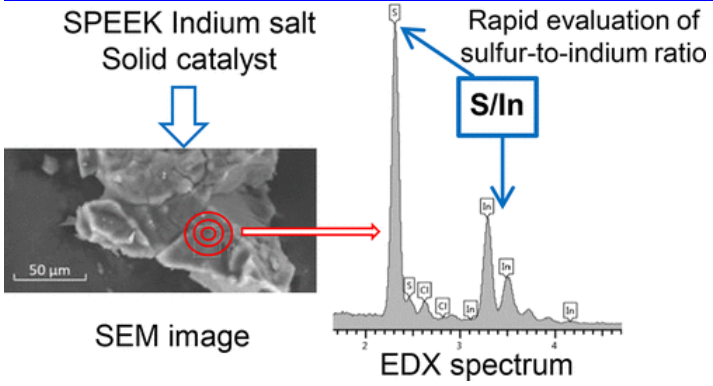
Synthesis and olfactory evaluation of allylic *α*-quaternary ether ketones
L. Lempenauer, A. Soupart, E. Duñach, G. Lemière, *Flavour Fragr. J.* **2019**, *34*, 90-103

Synthesis and olfactory evaluation of allylic *α*-quaternary thioether ketones
L. Lempenauer, T. Appleson, G. Lemière, E. Duñach, *Flavour Fragr. J.* **2019**, *34*, 36-42

Direct and selective C-H carbamoylation of (hetero)aromatics with TMSOTf activated carbamoyl chloride
A. Uehara, S. Olivero, B. Michelet, A. Martin-Mingot, S. Thibaudeau, E. Duñach, *Eur. J. Org. Chem.* **2019**, 46-49



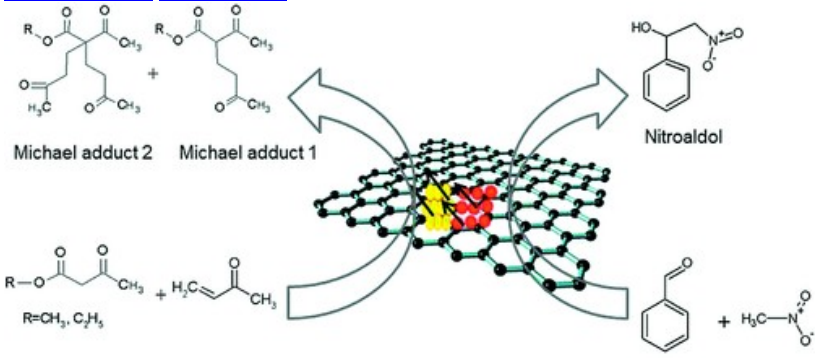
Quality control of a functionalized polymer catalyst by energy dispersive X-ray spectrometry (EDX/EDS)
D. Hector, S. Olivero, F. Orange, E. Duñach, J.-F. Gal, *Anal. Chem.* **2019**, *91*, 1773-1778



2018

Bimetallic Oriented (Au/Cu2O) vs. Monometallic 1.1.1 Au (0) or 2.0.0 Cu2O Graphene-Supported Nanoplatelets as Very Efficient Catalysts for Michael and Henry Additions

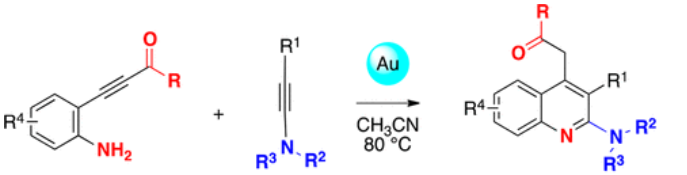
A. Simion, N. Candu, S. M. Coman, A. Primo, I. Esteve-Adell, V. Michelet, V. I. Parvulescu, H. Garcia, *Eur. J. Org. Chem.* **2018**, 6185-6190



Bimetallic oriented *Au/Cu2O/fl*-G nanoplatelets grafted on graphene

Gold-Catalyzed Cascade Reaction of *β*-(2-Aminophenyl)-*α*,*β*-ynones with Ynamides: A Sequential Route to Polysubstituted 2-Aminoquinolines

N. D. Rode, A. Arcadi, A. Di Nicola, F. Marinelli, V. Michelet, *Org. Lett.* **2018**, *20*, 5103-5106

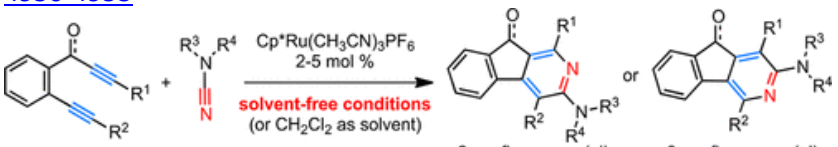


R4 = H, Me, Cl
R = aryl, heteroaryl, alkyl

23 examples, 37-95% yields

Synthesis of Fluorescent Azafluorenones and Derivatives via a Ruthenium-Catalyzed [2+2+2] Cycloaddition

F. Ye, C. Tran, L. Jullien, T. Le Saux, M. Haddad, V. Michelet, V. Ratovelomanana-Vidal, *Org. Lett.* **2018**, *20*, 4950-4953

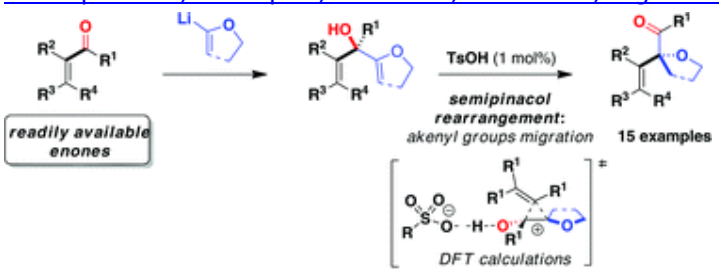


2-azafluorenone(ol)s 3-azafluorenone(ol)s

24 examples, 12-94% yields
high regioselectivities

Synthesis of *α*-oxygenated *β*,*γ*-unsaturated ketones by a catalytic rearrangement strategy

L. Lempenauer, A. Soupart, E. Duñach, G. Lemière, *Org. Biomol. Chem.* **2018**, *16*, 5441-5445

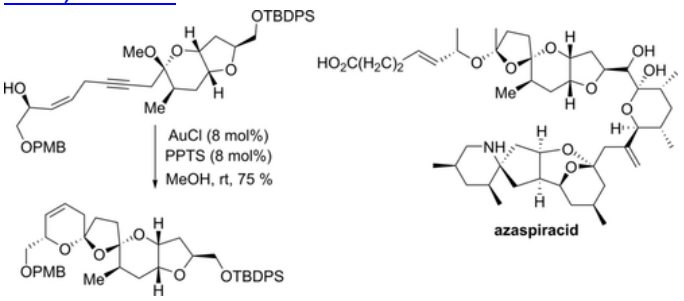


Stereocontrolled cascade cyclisation of campholenic enol-ether derivatives: en route to vetiver-scented spiroxides

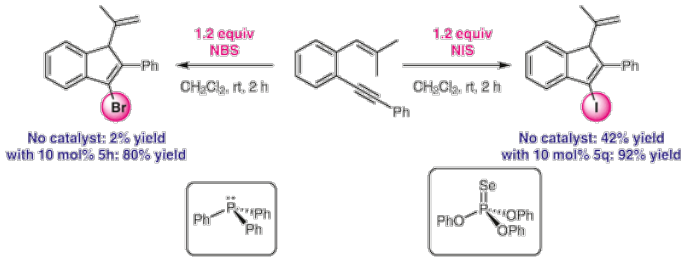
P. Ondet, G. Lemière, J. J. Filippi, E. Duñach, *Eur. J. Org. Chem*, **2018**, 980-989



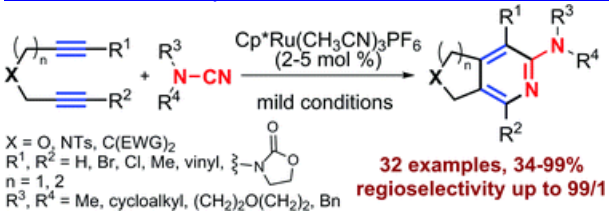
Gold-Catalyzed Polycyclization Toward Natural Products Synthesis P. Y. Toullec, V. Michelet, *Israel J. Chem.* **2018**, 578-585



Assessing the Activity of Lewis Bases Organocatalysts in Halonium-Induced Carbocyclization Reactions C. Grandclaudon, M. Ruamps, R. Duboc, V. Michelet, P. Y. Toullec, *Synlett* **2018**, *29*, 1181-1186

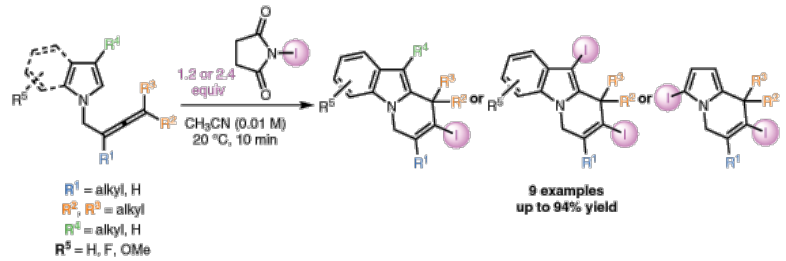


Synthesis of 2-aminopyridines via rutheniumcatalyzed [2+2+2] cycloaddition of 1,6- and 1,7-diynes with cyanamides: scope and limitations
F. Ye, F. Boukattaya, M. Haddad, V. Ratovelomanana-Vidal, V. Michelet, *New J. Chem.* **2018**, *42*, 3222-3235

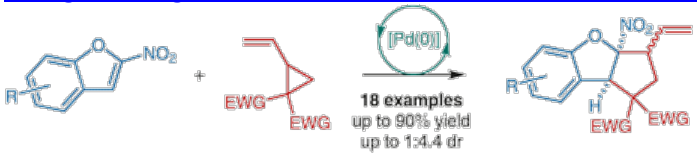


Rhodium-catalyzed asymmetric synthesis of 1,1-disubstituted 1,3-dihydrobenzo[c]furans from prochiral triynes and internal alkynes
F. Ye, M. Haddad, V. Ratovelomanana-Vidal, V. Michelet, *Catal. Commun.* **2018**, *107*, 78-81

Iodonium-Induced Cyclization of N-Allenylindoles and N-Allenylpyrroles: An Access to Iododihydropyrido[1,2-*a*]indoles and Dihydroindolizines
C. Grandclaudon, V. Michelet, P. Y. Toullec, *Synlett* **2018**, *29*, 310-313

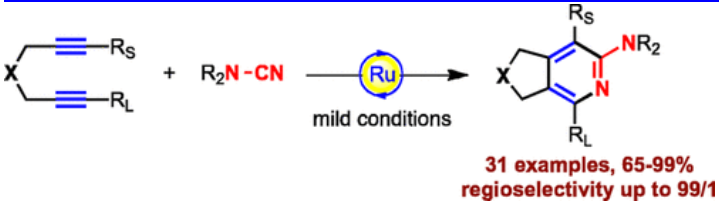


Palladium(0)-Catalyzed Dearomatization of 2-Nitrobenzofurans through Formal (3+2) Cycloadditions with Vinylcyclopropanes: A Straightforward Access to Cyclopenta[*b*]benzofurans
J. Ling, M. Laugeois, V. Michelet, V. Ratovelomanana-Vidal, M.R. Vitale, *Synlett* **2018**, *29*, 928-932

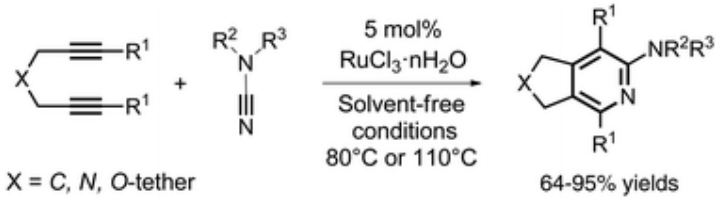


2017

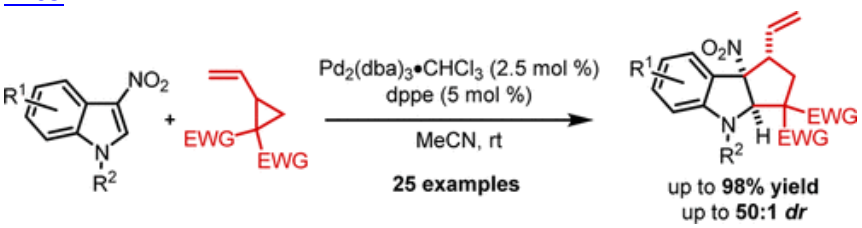
Ruthenium-Catalyzed [2+2+2] Cycloaddition Reaction Forming 2-Aminopyridine Derivatives from α,ω-Diynes and Cyanamides
F. Ye, M. Haddad, V. Ratovelomanana-Vidal, V. Michelet, *Org. Lett.* **2017**, *19*, 1104-1107



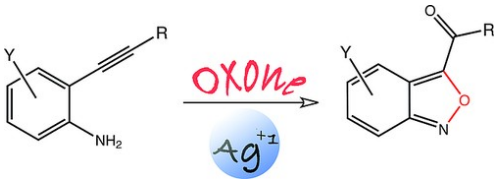
Solvent-Free Ruthenium Trichloride-Mediated [2+2+2] Cycloaddition of α,ω-Diynes and Cyanamides: A Convenient Access to 2-Aminopyridines
F. Ye, M. Haddad, V. Michelet, V. Ratovelomanana-Vidal, *Org. Chem. Frontiers.* **2017**, *4*, 1063-1068



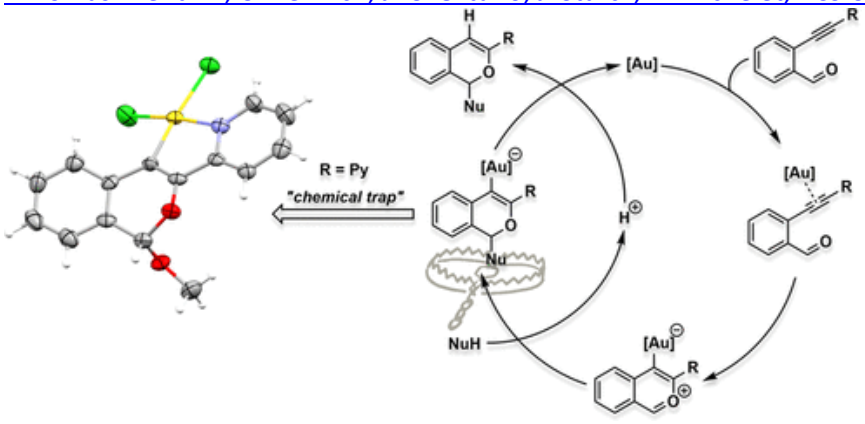
Palladium(0)-Catalyzed Dearomative [3+2] Cycloaddition of 3-Nitroindoles with Vinylcyclopropanes: An Entry to Stereodefined 2,3-Fused Cyclopentannulated Indoline Derivatives
M. Laugeois, J. Ling, C. Férard, V. Michelet, V. Ratovelomanana-Vidal, M.R. Vitale, *Org. Lett.* **2017**, *19*, 2266-2269



Sequential Silver-Catalyzed Oxidative Cyclization Reactions of Unprotected 2-Alkynylanilines to Anthranils A. Arcadi, M. Chiarini, L. Del Vecchio, F. Marinelli, V. Michelet, *Eur. J. Org. Chem.* **2017**, 2214-2222



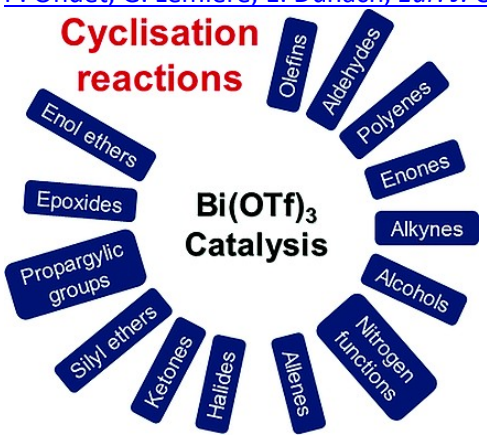
Gold-catalyzed access to 1*H*-isochromenes: reaction development and mechanistic insight
E. Tomas-Mendivil, C. Heinrich, J.-C. Ortuno, J. Starck, V. Michelet, *ACS Catal.* **2017**, *7*, 380-387



Synthesis and olfactory evaluation of spiro tricyclic diether structures
P. Ondet, C. Plessis, G. Lemière, E. Duñach, *Flavour Fragr. J.* **2017**, *32*, 119-125

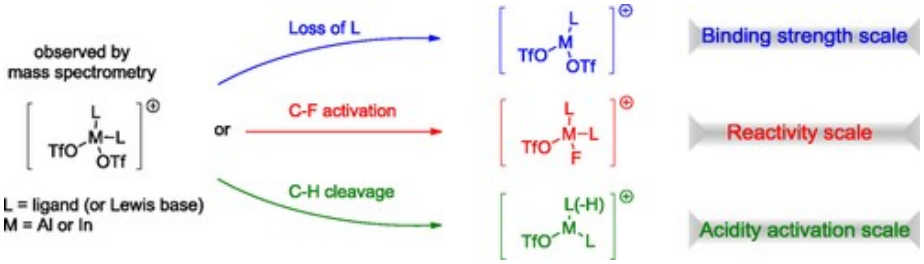
Cyclisations Catalysed by Bismuth(III) Triflate

P. Ondet, G. Lemière, E. Duñach, *Eur. J. Org. Chem.* **2017**, 761-780



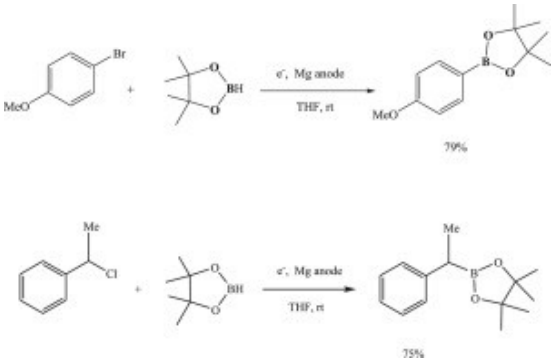
Bond Strength and Reactivity Scales for Lewis Superacid Adducts : A Comparative Study with $In(OTf)_3$ and $Al(OTf)_3$

G. Compain, L. Sick, L. Massi, E. Duñach, J. F. Gal, *ChemPhysChem* **2017**, *18*, 683-691



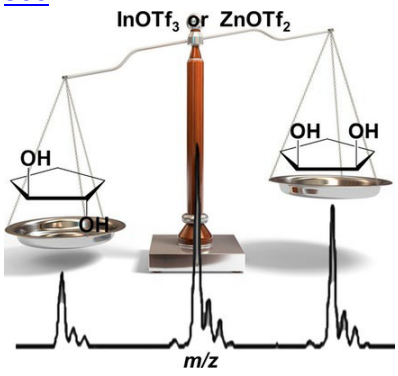
Electrosynthesis of boronic acids and esters

S. Olivero, E. Duñach, *Current Opinion in Electrochemistry* **2017**, *2*, 38-42



Quantitative ligand affinity scales for metal triflate salts. Application to isomer differentiation

C. Iacobucci, N. Jouini, L. Massi, S. Olivero, G. F. De Angelis, E. Duñach, J.-F. Gal, *ChemPlusChem* **2017**, *82*, 498-506

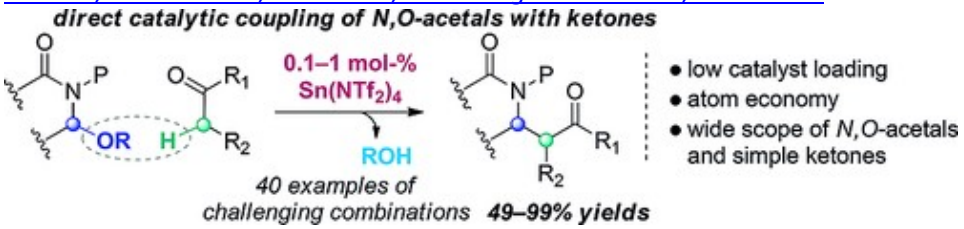


Electrochemical cyclizations of organic halides catalyzed by electrogenerated nickel(I) complexes : towards environmentally friendly methodologies

M. J. Medeiros, S. Olivero, E. Duñach, *Electrochim. Acta* **2017**, 373-381

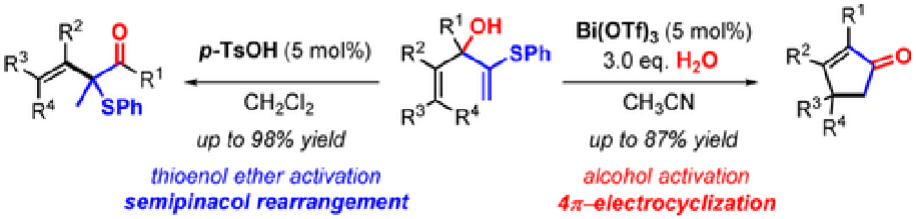
Atom Economical Catalytic Direct Substitution of *N*,*O*-Acetals with Simple Ketones

V. Dalla, S. Antoniotti, E. Dunach, *Eur. J. Org. Chem.* **2017**, 4445-4460



Tuning the Reactivity of Functionalized Diallylic Alcohols : Brønsted Acid vs. Lewis Acid Catalysis

L. Lempenauer, E. Duñach, G. Lemière, *Chem. Eur. J.* **2017**, *23*, 10285-10288



2016

Access toward Fluorenone Derivatives through Solvent-Free Ruthenium Trichloride Mediated [2+2+2] Cycloadditions
F. Ye, M. Haddad, V. Michelet, V. Ratovelomanana, *Org. Lett.*, **2016**, *18*, 5612-5615

Synthesis of Atropisomeric MeOBIPHEP Analogues and Their Application in Silver-Catalyzed Cycloisomerization of Allenols
F. Le Boucher d'Herouville, A. Millet, M. Scalone, V. Michelet, *Synthesis* **2016**, *48*, 3309-3316

Silver-Catalyzed Domino Hydroarylation / Cycloisomerization Reactions on 2-alkynyl-3-carbaldehydequinolines: access to (hetero)aryl-pyranoquinolines
A. Bontemps, G. Mariaule, S. Desbène-Finck, P. Helissey, S. Giorgi-Renault, V. Michelet, P. Belmont, *Synthesis* **2016**, *48*, 2178-2190

Gold-Catalyzed Cyclizations of Alkynyl Silyl Enol Ethers: an Easy Access to Bicyclo[3.2.1]octanone Derivatives
A. Carrër, C. Péan, F. Perron-Sierra, O. Mirguet, V. Michelet, *Adv. Synth. Catal.*, **2016**, *358*, 1540-1545

Asymmetric preparation of polysubstituted cyclopentanes by synergistic Pd(0)/amine catalyzed formal [3+2] cycloadditions of vinyl cyclopropanes with enals
M. Laugeois, S. Ponra, V. Ratovelomanana-Vidal, V. Michelet, M.R. Vitale, *Chem. Commun.*, **2016**, *52*, 5332-5335

Synthesis of Polysubstituted 2-Iodoindenes via Iodonium-Induced Cyclization of Arylallenes
C. Grandclaudon, V. Michelet, P. Y. Toullec, *Org. Lett.*, **2016**, *18*, 676-679

Silver- *versus* gold-catalyzed sequential oxidative cyclization of unprotected 2-alkynylanilines with oxone
A. Arcadi, M. Chiarini, L. Del Vecchio, F. Marinelli, V. Michelet, *Chem. Commun.*, **2016**, *52*, 1458-1461

Synthesis and complexing properties of molecular probes linked with fluorescent phosphane oxide derivatives
J. Bell, I. Samb, P. Y. Toullec, V. Michelet, I. Leray, *J. Photochem. Photobiol. A* **2016**, *318*, 25-32

Practical synthesis of polysubstituted naphthalene derivatives via $HNTf_2$-catalyzed benzannulation reaction
S. Ponra, M. R. Vitale, V. Michelet, V. Ratovelomanana-Vidal, *Arkivoc*, **2016**, 2, 62-81

Friedel-Crafts acylation with a polymer supported indium(III) catalyst
V. Morizur, D. Hector, S. Olivero, J. R. Desmurs, E. Duñach, *Synfacts*, **2016**, *10*, 1105

Enolizable Carbonyls and *N*,*O*-Acetals : A Rational Approach for Room-Temperature Lewis Superacid-Catalyzed Direct α- Amidoalkylation of Ketones and Aldehydes
B. Touati, A. El Bouakher, C. Taillier, R. Ben Othman, M. Trabelsi-Ayadi, S. Antoniotti, E. Duñach, V. Dalla, *Chem. Eur J.*, **2016**, *22*, 6012-6022

Ionic Liquids for the Electroreductive Radical Cyclization of Unsaturated Bromo Derivatives Catalyzed by Nickel(II) complexes
M. J. Neto, E. Duñach, J. M. S. S. Esperança, A. P. Esteves, M. J. Medeiros, M. M. Silva, *J. Electrochem. Soc.*, **2016**, *163*, G21- G25

Catalytic Rearrangement of 2-Alkoxy Diallyl Alcohols: Access to Polysubstituted Cyclopentenones
L. Lempenauer, E. Duñach, G. Lemière, *Org. Lett.*, **2016**, *18*, 1326-1329

Metal Sulfonate Polymers as Catalysts for the Heterogeneous Acylation of Aromatic Derivatives
V. Morizur, D. Hector, S. Olivero, J. R. Desmurs, E. Duñach, *Eur. J. Org. Chem.* **2016**, 3126-3129

New aromatic polymer electrolytes for application in lithium metal batteries
V. Morizur, M. Braglia, S. Olivero, J. R. Desmurs, P. Knauth, E. Duñach, *New J. Chem.* **2016**, 3126-3129

Bi(III) triflate catalysed tandem cyclisations towards complex polycyclic ethers
P. Ondet, L. Lempenauer, E. Duñach, G. Lemière, *Org. Chem. Front.* **2016**, *3*, 999-1003

Acid-Catalyzed Synthesis of Thiazolidin-4-ones
N. Sadou, S. Aichouche-Bouzroura, R. Nechak, B. Nedjar-Kolli, V. Morizur, S. Poulain-Martini, E. Dunach, *Polycycl Aromat Compd*, **2016**, 1-11

(*R*)- and (*S*)-2,2′-Bis(diphenylphosphino)-6,6′-dimethoxy-1,1′-biphenyl
R. Schmid, M. Scalone, V. Michelet, M. Scalone, N. A. Isley, R. T. H. Linstadt, B. H. Lipshutz, Encyclopedia of Reagents for Organic Synthesis **2016**

2015

Synthesis of Functionalized 1*H*-Isochromene Derivatives via a Au-Catalyzed Domino Cycloisomerization/Reduction Approach
E. Tomas-Mendivil, J. Starck, J.-C. Ortuno, V. Michelet, *Org. Lett.* **2015**, *17*, 6126-6129

Heterogeneous gold catalyst: synthesis, characterization and application in 1,4-addition of boronic acids to enones
A. Moragues, F. Neatu, V. I. Pârvulescu, M. D. Marcos, P. Amorós, V. Michelet, *ACS Catal.* **2015**, *5*, 5060-5067

Synthesis of atropisomeric chiral MeOBIPHEP analogues via Pd-catalyzed P-C coupling - Applications to asymmetric Rh- catalyzed C-C bond formations in water
L. Leseurre, F. Le Boucher d'Herouville, A. Millet, J.-P. Genêt, M. Scalone, V. Michelet, *Catal. Commun.* **2015**, *69*, 129-132

Practical Solvent-free $RuCl_3$-Mediated Benzannulation Approach To Fused Functionalized Arenes
J. Jacquet, A.-L. Auvinet, A. K. Mandadapu, M. Haddad, V. Ratovelomanana-Vidal, V. Michelet, *Adv . Synth. Catal.* **2015**, *357*, 1387-1392

$HNTf_2$-Catalyzed Regioselective Preparation of Polysubstituted Naphthalene Derivatives Through Alkyne−Aldehyde Coupling
S. Ponra, M. R. Vitale, V. Michelet, V. Ratovelomanana-Vidal, *J. Org. Chem.* **2015**, *80*, 3250-3257

Arylation of alkynes over hydrotalcite docked Rh-*m*-TPPTC complex
F. Neaţu, M. Ciobanu, L. E. Stoflea, L. Frunza, V. I. Pârvulescu, V. Michelet, *Catalysis Today* **2015**, *247*, 155-162

La catalyse duale synergique : Vers de nouvelles réactivités/sélectivités en synthèse organique
M. R. Vitale, D. Lesuisse, V. Michelet, V. Ratovelomanana-Vidal, *Actualité Chimique* **2015**, *393-394*, 74-81

Catalytic intramolecular carbonyl–ene reaction with ketones: evidence for a retro-ene process
P. Tremel, C. Iacobucci, L. Massi, S. Olivero, J. F. Gal, E. Duñach, *New. J. Chem.* **2015**, *39*, 7453-7458

Catalysis of the acylation of aromatic derivatives by metallic tosylates
V. Morizur, J. Szafranek, D. Bonhomme, S. Olivero, J. R. Desmurs, E. Duñach, *Tetrahedron* **2015**, *71*, 1752-1763

Synthesis and odour evaluation of allenic derivatives
I. Diaf, A. Joffrin, G. Lemière, E. Dunach, *Flavour & Fragrance J.* **2015**, 478-484

Électrosynthèse d'acides et d'esters boroniques
S. Olivero, E. Duñach, *L'Actualité Chimique* **2015**, *400-401*, 29-30

Cycloisomerization of Allene–Enol Ethers under $Bi(OTf)_3$ Catalysis
P. Ondet, A. Joffrin, I. Diaf, G. Lemiere, E. Dunach, *Org. Lett.* **2015**, *17, 1002-1005*

Synthesis and odour evaluation of tricyclic ether derivatives containing a *cis*-1,2-dimethyl norbornane moiety
A. Clinet, M. Chaignaud, J.-C.Clinet, E. Duñach, *Flavour Fragr. J.* **2015**, *30*, 165-170

Synthesis and Antimicrobial Activity Evaluation of Novel 4-Thiazolidinones Containing a Pyrone Moiety
R. Nechak, S. Aichouche-Bouzroura, Y. Benmaleek, L. Salhi, S. Poulain-Martini, V. Morizur, E. Dunach, B. Nedjar-Kolli, *Synth. Commun.* **2015**, *45*, 262-272

Book chapter :

Genin, E.; Michelet, V. in *Green Process Engineering – From Concepts to Industrial Applications* Poux, M.; Cognet, P.; Gourdon, C. Eds, CRC Press Taylor & Francis Group, ISBN 9781482208177, Chapter 10: Water as solvent and solvent-free reactions

Michelet, V. Gold-catalyzed Domino Reactions *Topics in Current Chemistry* **2015**, Homogeneous Gold Catalysis Ed: Slaughter, L. M.; *357*, 95-132

2014

Silver-Catalyzed Domino Hydroarylation/ Cycloisomerization Reactions of ortho-Alkynylbenzaldehydes: An Entry to Functionalized IsochromeneDerivative
G. Mariaule, G. Newsome, P. Y. Toullec, P. Belmont, V. Michelet, *Org. Lett.* **2014**, *16*, 4570-4573.

Synergistic Iron- and Amine-Catalysis in Carbocyclizations
C. Praveen, S. Levêque, M. R. Vitale, V. Michelet, Ratovelomanana-Vidal, V. *Synthesis* **2014**, *46*, 1334-1338.

Combinatorial Approach to Chiral Tris-ligated Carbophilic Platinum Complexes: Application to Asymmetric
A. Pradal, S. Gladiali, V. Michelet, P. Y. Toullec, Catalysis *Chem. Eur. J.* **2014**, *20*, 7128-7135.

Ultra-Sensitive and Selective Hg^{2+} Chemosensors Derived from substituted 8-Hydroxyquinoline analogues
J. Bell, I. Samb, P. Y. Toullec, O. Mongin, M. Blanchard-Desce, V. Michelet, I. Leray *New J. Chem.* **2014**, *38*, 1072-1078.

Aminofluorination of 2-alkynylanilines: a Au-catalyzed entry to fluorinated indoles
A. Arcadi, E. Pietropaolo, A. Alvino, V. Michelet *Beilstein J. Org. Chem.* **2014**, *10*, 449-458.

Novel lithium and sodium salts of sulfonamides and bis(sulfonyl)imides : synthesis and electrical conductivity
V. Morizur, S. Olivero, J.-R. Desmurs, P. Knauth, E. Duñach *New J. Chem.* **2014***, 38, 6193-6197.*

Access to polycyclic derivatives via triflate-catalyzed intramolecular hydroarylation
A. Cacciuttolo, S. Poulain-Martini, F. Fontane-Vive, M; A. Hussein Abdou, H. El Kashef, E. Duñach *Eur J. Org. Chem.* **2014***, 7458-7468.*

Carbon-carbon bond formation by Lewis superacid catalysis
E. Duñach *Chemistry & Biodiversity* **2014***, 11, 1752-1763.*

Bi(III)-catalysed synthesis of substituted indanes by a double hydroarylation of unactivated 1,3-dienes
B. Cacciuttolo, P. Ondet, S. Poulain-Martini, G. Lemiere, E. Duñach *Org. Chem. Frontiers* **2014***, 1, 765-769.*

Application of Cooperative Iron/Copper Catalysis to a Palladium-Free Borylation of Aryl Bromides with Pinacolborane
F. Labre, Y. Gimbert, P. Bannwarth, S. Olivero, E. Duñach, P. Y. Chavant, *Org. Lett.* **2014***, 16*, 2366-2369

Poly(vinyl alcohol) functionalization with aldehydes in organic solvents: Shining properties of poly(vinyl acetals)
E. Delattre, G. Lemière, B. Boulay, J.-R. Desmurs, E. Duñach, *J. Appl. Polym. Sci.* **2014***, 131*, 40677

Metal-Triflate-Catalyzed Synthesis of Polycyclic Tertiary Alcohols by Cyclization of γ-Allenic Ketones
I. Diaf, G. Lemière, E. Duñach, *Angew. Chem. Int. Ed.* **2014**, *53*, 4177-4180

On the Catalysis of the Cycloisomerization of 1,6-Dienes with Tin(IV) Salts: The Important Role of a Water Molecule
P. Nava, Y. Carissian, J. Drujon, F. Grau, J. Godeau, S. Antoniotti, E. Duñach, S. Humbel, *ChemCatChem* **2014***, 2*, 663-672

Preparation and olfactory evaluation of mono- and bicyclic compounds featuring *gem*-dimethylcyclohexane structures
J. Godeau, F. Grau, S. Antoniotti, E. Duñach, *Flavour & Fragr. J.* **2014***, 29*, 59-66

Book chapter :
Genet, J.-P.; Toullec, P.Y.; Michelet, V. Carbophilic Cycloisomerization Reactions of Enynes and Domino Processes in *Modern Alkyne Chemistry- Catalytic and Atom-Economic Transformations*, B.M. Trost, C.-J. Li

(Eds.), John Wiley & Sons; (**2014**), *3*, ISBN: 978-3-527-33505-3, 27-68.

Genin, E.; Michelet, V. Gold-catalyzed addition of HX on alkynes in *The Chemistry of Organogold Compounds*, **2014**, Z. Rappoport, I. Marek, J. F. Liebman (Eds.), John Wiley & Sons; (**2014**), *10*, 1-60, doi 10.1002/9780470682531.pat0814.

Michelet, V. Noble Metal-Catalyzed Enyne Cycloisomerizations and Related Reaction in *Comprehensive Organic Synthesis 2nd Edition*, **2014**, Ed. Molander, G.; Knochel, P., 1483-1536.

Toullec, P.Y.; Pradal, A.; Michelet, V. Asymmetric Gold-Catalyzed Reactions in *Gold Catalysis: An Homogeneous Approach*, **2014**, Ed. Toste, F. D.; Michelet, V., Imperial College Press ; ISBN 978-1-84816-852-7 *12*, 445-500.

2013

Water-Soluble Gold(I) and Gold(III) Complexes with Sulfonated *N*-Heterocyclic Carbene Ligands: Synthesis, Characterization, and Application in the Catalytic Cycloisomerization of γ-Alkynoic Acids into Enol-Lactones
E. Tomás-Mendivil, P. Y. Toullec, J. Borge, S. Conejero, V. Michelet, V. Cadierno, *ACS Catal.* **2013**, *3*, 3086-3098.

One-Pot Gold-Catalyzed Aminofluorination of Unprotected 2-Alkynylanilines
A. Arcadi, E. Pietropaolo, A. Alvino, V. Michelet, *Org. Lett.* **2013**, *15*, 2766-2769

Solvent-Free Iridium(III)-Catalyzed [2+2+2] Cycloaddition Providing Access to Fused Arenes: Isoindolines, Dihydroisobenzofurans and Indanes
A.-L. Auvinet, V. Michelet, V. Ratovelomanana-Vidal, *Synthesis* **2013**, *45*, 2003-2008

Iridium(III)-Catalyzed Approach for the Synthesis of Fused Arenes: Access to Isoindolines, Indanes, and Dihydroisobenzofurans
A.-L. Auvinet, M. Ez-zoubir, S. Bompard, M. R. Vitale, J. A. Brown, V. Michelet, V. Ratovelomanana-Vidal, *ChemCatChem* **2013**, *5*, 2389-2394

Enantioselective Merger of Aminocatalysis with π-Lewis Acid Metal Catalysis: Asymmetric Preparation of Carbo- and Heterocycles
C. Praveen, B. Montaignac, M. R. Vitale, V. Ratovelomanana-Vidal, V. Michelet, *ChemCatChem* **2013**, *5*, 2395-2404

Electrochemical Catalytic Cyclization Reactions Using Environmentally Friendly Methodologies
E. Duñach, M. J. Medeiros, S. Olivero, *J. Electrochem. Soc.*, **2013**, *160*, 3112-3116

Essential oil composition and antibacterial activity of the different parts of *Thymus maroccanus* Ball: an endemic species in Morocco
A. Romane, R. Belaqziz, F. Bahri, X. Fernandez, S. Antoniotti, E. Duñach, *Natural Product Research,* **2013**, *27*, 1700-1704

Indirect Electrochemical Cyclisation of Bromoalkoxylated Derivatives Using Environmentally Friendly Methodologies
E. Duñach, M. J. Medeiros, S. Olivero, *ECS Transactions,* **2013**, *45*, 9-13

Catalyse et synthèse asymétrique
T. Constantieux, E. Duñach, *L'Actualité Chimique* **2013**, *377*, 14-17

An efficient conversion of maleimide derivatives to 2-thioxo imidazolidinones
L. Salhi, S. Bouzroura-Aichouche, Y. Benmaleek, Y. Bentarzi, S. Poulain-Martini, B. Cacciuttolo, E. Duñach, B. Nedjar- Kolli, *Org. Commun.* **2013**, *6*, 87-94

Catalytic Activation of Olefins by Metal Triflates and Triflimides: Application to Fragrance Chemistry G. Lemière, E. Duñach, *Chem. Eur. J.* **2013**, *19*, 3270-3280.

Metal triflates and triflimides as Lewis "superacids": preparation, synthetic application and affinity tests by mass spectrometry
J. F. Gal, C. Iacobucci, I. Monfardini, L. Massi, E. Duñach, S. Olivero, *J. Phys. Org. Chem.* **2013**, *26*, 87-97

Synthesis and odour evaluation of alcohols bearing a *cis*-1,2-dimethyl norbornane moiety A. Clinet, M. Chaignaud, J.-C. Clinet, E. Duñach, *Flavour Fragr. J.* **2013**, *28*, 53-61

2012

Practical and Efficient Iridium Catalysis for Benzannulation: An Entry To Isoindolines
A.-L. Auvinet, M. Ez-zoubir, M. R. Vitale, J. A. Brown, V. Michelet, V. Ratovelomanana-Vidal, *ChemSusChem* **2012**, *5*, 1888- 1891

Gold-Catalyzed C–H Oxidative Polyacyloxylation Reaction of Hindered Arenes
A. Pradal, P. Faudot dit Bel, P. Y. Toullec, V. Michelet, *Synthesis* **2012**, *44*, 2463-2468

Enantioselective metallo-organocatalyzed preparation of cyclopentanes bearing an all-carbon quaternary stereocenter
B. Montaignac, C. Praveen, M. R. Vitale, V. Michelet, V. Ratovelomanana-Vidal, *Chem. Commun.* **2012**, *48*, 6559-6561

Cycloisomerization versus Hydration Reactions in Aqueous Media: A Au(III)-NHC Catalyst That Makes the Difference E. Tomas-Mendivil, P. Y. Toullec, J. Diez, S. Conejero, V. Michelet, V. Cadierno, *Org. Lett.* **2012**, *14*, 2520-2523

Copper(i)–amine metallo-organocatalyzed synthesis of carbo- and heterocyclic systems
A. Montaignac, V. Östlund, M. R. Vitale, V. Ratovelomanana-Vidal, V. Michelet, *Org. Biomol. Chem.* **2012**, 10, 2300-2306

Gold-Catalyzed Cycloisomerization of Functionalized 1,5-Enynes - An Entry to Polycyclic Framework
A. Pradal, Q. Chen, P. Faudot dit Bel, P. Y. Toullec, V. Michelet, *Synlett.* **2012**, 74-79

Experimental and Theoretical Studies on the Bismuth-Triflate-Catalysed Cycloisomerisation of 1,6,10-Trienes and Aryl Polyenes
J. Godeau, F. Fontaine-Vive, S. Antoniotti, E. Duñach, *Chem. Eur. J.* **2012**, *18*, 16815-16822

Bi(OTf)3-Catalyzed Cycloisomerization of Aryl-Allenes
G. Lemiere, B. Cacciuttolo, E. Belhassen, E. Duñach, *Org. Lett.* **2012**, *14*, 2750-2753

Catalytic Versatility and Backups in Enzyme Active Sites: The Case of Serum Paraoxonase 1
M. Ben-David, M. Elias, J.-J. Filippi, E. Duñach, I. Silman, J. L. Sussman, D. S. Tawfik, *J. Mol. Biol.* **2012**, *418*, 181-196

C–O and C–C bond formation in the cyclisation of *gem*-(dialkoxymethyl)-1,6-dienes catalysed by tin(IV) triflimidate at room temperature
V. Vece, K. B. H. Hassen, S. Antoniotti, E. Duñach, *Tetrahedron Lett.* **2012**, *53*, 5102-5105

Efficient Preparation of Anhydrous Metallic Triflates and Triflimides under Ultrasonic Activation N. Legrave, A. Couhert, S. Olivero, J.-R. Desmurs, E. Duñach, *Eur. J. Org. Chem.* **2012**, 901-904

A Quantitative Approach of the Interaction between Metal Triflates and Organic Ligands Using Electrospray Mass Spectrometry
J.-F. Gal, C. Iacobucci, I. Monfardini, L. Massi, E. Duñach, S. Olivero,*J. Am. Soc. Mass Spectrom.* **2012**, 23, 2059-2062

Book chapter :

Michelet, V.; Ratovelomanana-Vidal, V.; Pârvulescu, V.I.; Kočevar, M. Recent Advances in the Synthesis and Catalytic Hydrogenation of Dehydroamino Acid Derivatives and Bicyclo[2.2.2]octenes in Innovative Catalysis in Organic Synthesis - Oxidations, Hydrogenations, and C-X Bond Forming Reactions Anderson, P. Ed; Wiley-VCH,

2012, 131-152.

2011

Synthesis of New Water-Soluble Atropisomeric Ligands Derived from the MeOBIPHEP Skeleton: Applications for Asymmetric C-H Bond Formation and Mechanistic Studies
L. Leseurre, K. Püntener, J.-P. Genêt, M. Scalone, V. Michelet, *Adv. Synth. Catal.* **2011**, *353*, 3269-3277

Gold-Catalyzed Oxidative Acyloxylation of Arenes
A. Pradal, P. Y. Toullec, V. Michelet, *Org. Lett.* **2011**, *13*, 6086-6089

Asymmetric Au-catalyzed cycloisomerization of 1,6-enynes: An entry to bicyclo[4.1.0]heptane
A. Pradal, C.-M. Chao, P. Y. Toullec, V. Michelet, *Beilstein J. Org. Chem.* **2011**, *7*, 1021-1029

Room-Temperature Rh-Catalyzed Asymmetric 1,4-Addition of Arylboronic Acids to Maleimides and Enones in the Presence of CF3-Substituted MeOBIPHEP Analogues
F. Le Boucher d'Herouville, A. Millet, M. Scalone, V. Michelet, *J. Org. Chem.* **2011**, *76*, 6925-6930

Efficient Route to Atropisomeric Ligands – Application to the Synthesis of MeOBIPHEP Analogues
L. Leseurre, F. Le Boucher d'Herouville, K. Püntener, M. Scalone, J.-P. Genêt, V. Michelet, *Org. Lett.* **2011**, *13*, 3250-3253

Cooperative Copper(I) and Primary Amine Catalyzed Room-Temperature Carbocyclization of Formyl Alkynes
B. Montaignac, M. R. Vitale, V. Ratovelomanana-Vidal, V. Michelet, *Eur. J. Org. Chem.* **2011**, 3723-3727

Recent Developments in Asymmetric Catalysis in the Presence of Chiral Gold Complexes
A. Pradal, P. Y. Toullec, V. Michelet, *Synthesis* **2011**, 1501-1514

Asymmetric Au-Catalyzed Domino Cyclization / Nucleophile Addition Reactions of Enynes in the Presence of Water, Methanol and Electron-Rich Aromatic Derivatives
A. Pradal, C.-M. Chao, M. Vitale, P. Y. Toullec, V. Michelet, *Tetrahedron* **2011**, *67*, 4371-4377

Asymmetric Pt- and Au-cycloisomerization reactions of 1,*n*-enynes Novel activities and new opportunities
A. Pradal, P. Y. Toullec, V. Michelet, V. *Chem. Today* **2011**, *29*, 40-42

Fluorescent Phosphane Selenide As Efficient Mercury Chemodosimeter
I. Samb, J. Bell, P. Y. Toullec, V. Michelet, I. Leray, *Org. Lett.* **2011**, *13*, 1182-1185

Synthesis, Photophysical, and Two-Photon Absorption Properties of Elongated Phosphane Oxide and Sulfide Derivatives
V. Alain-Rizzo, D. Drouin-Kucma, C. Rouxel, I. Samb, J. Bell, P. Y. Toullec, V. Michelet, I. Leray, M. Blanchard-Desce, *Chem. Asian. J.* **2011**, *6*, 1080-1091

4,5-Dihydro-4-phenyl-3*H*-dinaphtho[2,1-c:1',2'-*e*]phosphepin
S. Gladiali, P. Y. Toullec, J.-P. Genêt, V. Michelet, Encyclopedia of Reagents for Organic Synthesis **2011**

Iridium-catalyzed hydroiodination of functionalized alkynes
M. Ez-Zoubir, J. Brown, V. Ratovelomanana-Vidal, V. Michelet, *Organomet. Chem.* **2011**, *696*, 433-441

Biomimetic Cationic Polyannulation Reaction Catalyzed by Bi(OTf)3: Cyclization of 1,6-Dienes, 1,6,10-Trienes, and Aryl Polyenes
J. Godeau, S. Olivero, S. ; Antoniotti, E. Duñach, *Org. Lett.* **2011**, *13*, 3320-3323

Efficient Intramolecular Hydroarylation Catalysed by BiIII Triflate

B. Cacciuttolo, S. Poulain-Martini, E. Duñach, *Eur. J. Org. Chem.* **2011**, 3710-3714

Book chapter :

Toullec, P. Y.; Michelet, V. Cycloisomerization of 1,*n*-enynes via carbophilic activation *Topics in Current Chemistry* **2011**, Mechanisms of Transition Metal Catalyzed Transformations of Unsaturated Precursors: A Computational Approach Eds: Soriano, E.; Marco-Contelles, J.; *302*, 31-80.

2010

Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids
F. Neaţu, L. Protesescu, M. Florea, V. I. Pârvulescu, C. M. Teodorescu, N. Apostol, P. Y. Toullec, V. Michelet, *Green Chem.* **2010**, *12*, 2145-2149

$InCl_3/CyNH_2$ Cocatalyzed Carbocyclization Reaction: An Entry to α-Disubstituted *exo*-Methylene Cyclopentanes
B. Montaignac, M. R. Vitale, V. Ratovelomanana-Vidal, V. Michelet, *J. Org. Chem.* **2010**, *75*, 8322-8325

Room-Temperature Metal-Free Electrophilic *5-endo*-Selective Iodocarbocyclization of 1,5-Enynes
A. Pradal, A. Nasr, P. Y. Toullec, V. Michelet, *Org. Lett.* **2010**, *12*, 5222-5225

Chiral undecagold clusters: synthesis, characterization and investigation in catalysis
E. Andreiadis, M. R. Vitale, N. Mézailles, X. Le Goff, P. Le Floch, P. Y. Toullec, V. Michelet, *Dalton Trans*. **2010**, 39, 10608- 10616

Stereoselective Ir(III)-catalyzed dimerization reaction of enynes: an entry to functionalized polyunsaturated and cyclic systems
M. Ez-Zoubir, F. Le Boucher d'Herouville, J. Brown, V. Ratovelomanana-Vidal, V. Michelet, *Chem. Commun.* **2010**, *46*, 6332- 6334

Combined $InCl_3$- and Amine-Catalyzed Intramolecular Addition of α-Disubstituted Aldehydes onto Unactivated Alkynes
B. Montaignac, M. R. Vitale, V. Michelet, V. Ratovelomana-Vidal, *Org. Lett.* **2010**, *12*, 2582-2585

Chiral Cationic Platinum Complexes: New Catalysts for The Activation of Carbon-Carbon Multiple Bonds Towards Nucleophilic Enantioselective Attack
P. Y. Toullec, V. Michelet, *Curr. Org. Chem.* **2010**, *14*, 1245-1253

Vers une chimie moléculaire verte
J.-M. Campagne, F. Agbossou, T. Ayad, O. Baudoin, G. Buono, I. Chataigner, C. Crévisy, I. Dez, M. Donnard, F. Fache, C. Feasson, A.-C. Gaumont, L. Laurent Giordano, P. Peter Hesemann, F. Marsais, M. Mauduit, V. Michelet, A. Mortreux, P. Phansavath, O. Piva, J.-P. Roblin, J. Rouden, M. Taillefer, P. Y. Toullec, T. Tschamber, V. Vidal, *Actualité Chimique* **2010**, *338-339*, 14-27

Sensitized Emission of Luminescent Lanthanide Complexes Based on a Phosphane Oxide Derivative
M.-H. Ha-Thi, J. A. Delaire, V. Michelet, I. Leray, *J. Phys. Chem. A* **2010**, *114*, 3264-3269

In^{III}-Catalysed Tandem C-C and C-O Bond Formation between Phenols and Allylic Acetates,
V. Vece, J. Ricci, S. Poulain-Martini, P. Nava, Y. Carissan, S. Humbel, E. Duñach, *Eur. J. Org. Chem.* **2010**, 6239-6248

An Opportunity for Mg-Catalyzed Grignard-Type Reactions: Direct Coupling of Benzylic Halides with Pinacolborane with 10 mol % of Magnesium
C. Pintaric, S. Olivero, Y. Gimbert, P. Y. Chavant, E. Duñach, *J. Am. Chem. Soc.* **2010**, *132*, 11825-11827

Synthesis of New *exo*- and *endo*-3,8-Dihydro-*β*-santalols and Other Norbornyl-Derived Alcohols
A. Muratore, J.-C. Clinet, E. DuÇach, *Chem. Biodiversity* **2010**, *7*, 623-638

Mass spectrometric characterization of metal triflates and triflimides (Lewis superacid catalysts) by

electrospray ionization and tandem mass spectrometry
I. Monfardini, L. Massi, P. Tremel, A. Hauville, S. Olivero, E. Duñach, J.-F. Gal, *Rapid Commun. Mass Spectrom.* **2010**, *24*, 2611-2619

Relative basicities toward metal triflates Lewis acids by electrospray mass spectrometry
I. Monfardini, L. Massi, E. Duñach, S. Olivero, J.-F. Gal, *Chem. Commun.* **2010**, *46*, 8472-8474

Flavouring and odorant thiols from renewable natural resources by In^{III}-catalysed hydrothioacetylation and lipase-catalysed solvolysis
R.-M. Dia, R. Belaqziz, A. Romane, S. Antoniotti, E. Duñach, *Tetrahedron Lett.* **2010**, *51*, *2164-2167*

A convenient one pot preparation of 4-thiazolidinones from enaminolactones
S. Bouzroura, Y. Bentarzi, R. Kaoua, B. Nedjar-Kolli, S. Poulain-Martini, E. Duñach, *Org. Commun.* **2010**, *3*, 8-14

N-Acyliminium Ion Chemistry: Highly Efficient and Versatile Carbon–Carbon Bond Formation by Nucleophilic Substitution of Hydroxy Groups Catalyzed by $Sn(NTf_2)_4$
O. R. Ben, R. Affani, M.-J. Tranchant, S. Antoniotti, V. Dalla, E. Duñach, *Angew. Chem., Int. Ed.* **2010**, *49*, 776-780

Electrophilic Functionalization of Non-Activated Olefins Catalyzed by Lewis Superacids
S. Antoniotti, S. Poulain-Martini, E. Duñach, *Synlett* **2010**, *2973-2988*

Metal Triflimidates: Better than Metal Triflates as Catalysts in Organic Synthesis - The Effect of a Highly Delocalized Counteranion
S. Antoniotti, V. Dalla, E. Duñach, *Angew. Chem. Int. Ed.* **2010**, *49*, 7860-7888

Book chapter :

Genin, E.; Leseurre, L.; Michelet, V. L'eau comme solvant et réactions sans solvant in *Génie des procédés durables: du concept à la concrétisation industrielle*; Poux, M.; Cognet, P.; Gourdon, C. Eds, Dunod, **2010** ISBN 978-2-10-055601-4, Chapter 10, 276-305. *Prix Roberval de l'Enseignement Supérieur 2011*

Leseurre, L.; Genêt, J.-P.; Michelet, V. Coupling Reactions in Water in *Handbook of Green Chemistry Series:Water as a Green Solvent* P. Anastas, C.-J. Li Eds; John Wiley & Sons, **2010**