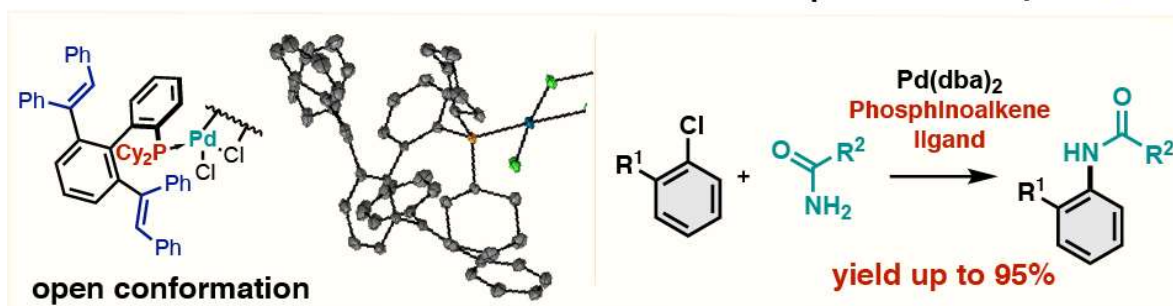
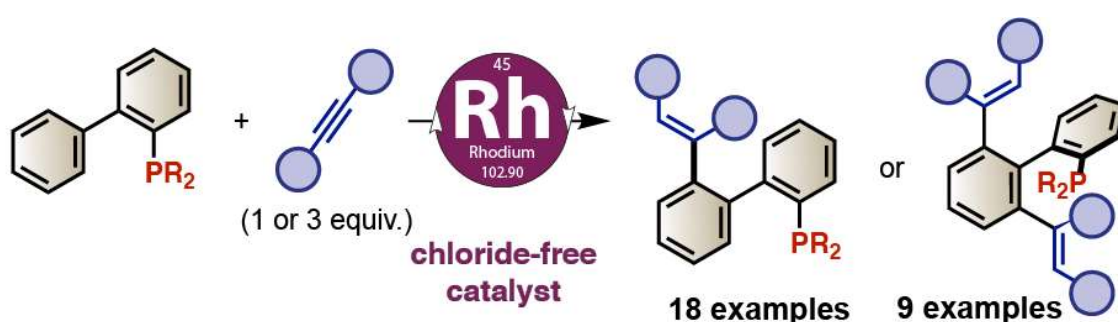


P. H. Dixneuf publications 2013-2019 with graphical abstracts

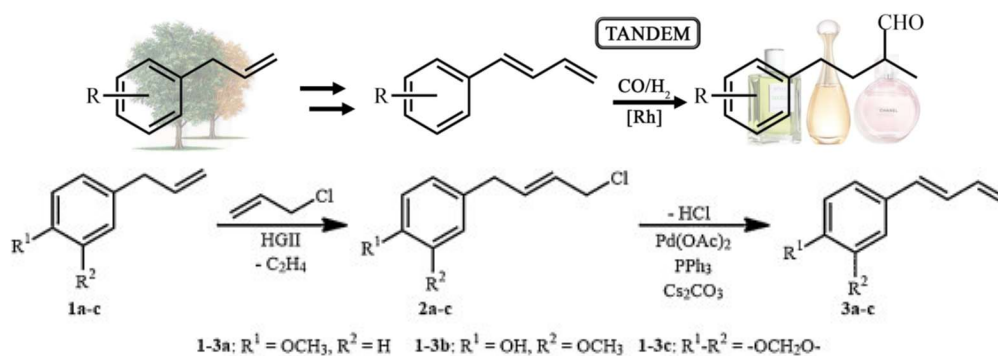
Rouge = livre; Bleu = Revue ou chapitre de livre;
noir = journaux internationaux

2020

472. Late-Stage Diversification of Biarylphosphines through Rhodium(I)-Catalyzed C–H Bond Alkenylation with Internal Alkynes. Zhuan Zhang, Marie Cordier, Pierre H. Dixneuf, and Jean-François Soulé. *Org. Lett.* 2020, in press



471. Tandem hydroformylation/isomerization/hydrogenation of bio-derived 1-arylbutadienes for the regioselective synthesis of branched aldehydes
Gabriel M. Vieira, Artur V. Granato, Elena V. Gusevskaya, Eduardo N. dos Santos, Pierre H. Dixneuf, Cédric Fischmeister, Christian Bruneau
Applied Catalysis A: General, 2020, Volume 598, in press,
<https://doi.org/10.1016/j.apcata.2020.117583>



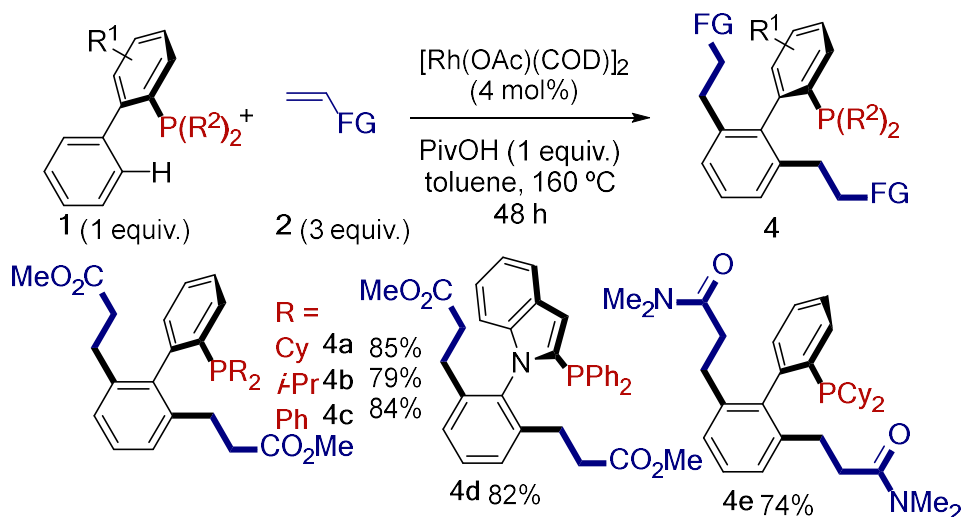
2019

470. Rh(I)-Catalyzed P(III)-Directed C–H Bond Alkylation: Design of Multifunctional Phosphines.

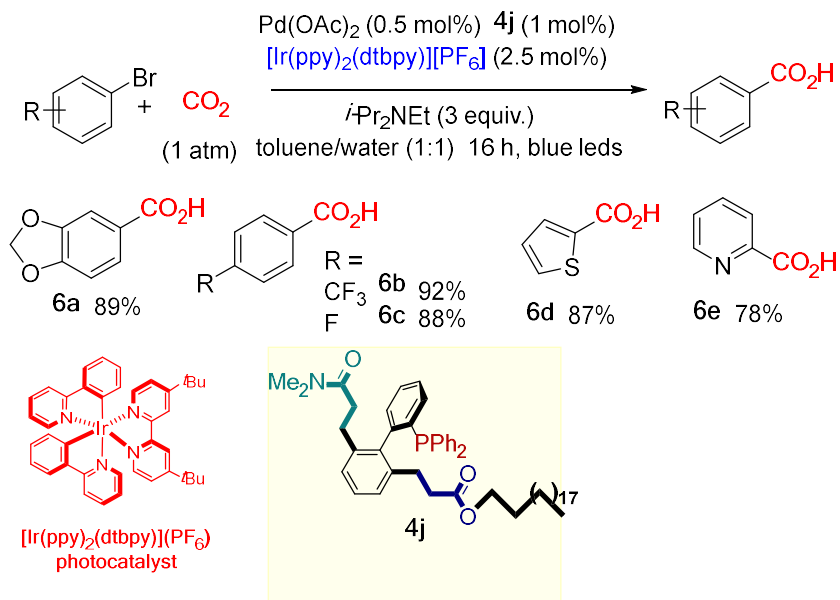
for Carboxylation of Aryl Bromides with Carbon Dioxide

Zhuan Zhang, Thierry Roisnel, Pierre H. Dixneuf, Jean-François Soulé

Angew. Chem. Int. Ed. **2019**, First Published: 24 July 2019, doi.org/10.1002/anie.201906913



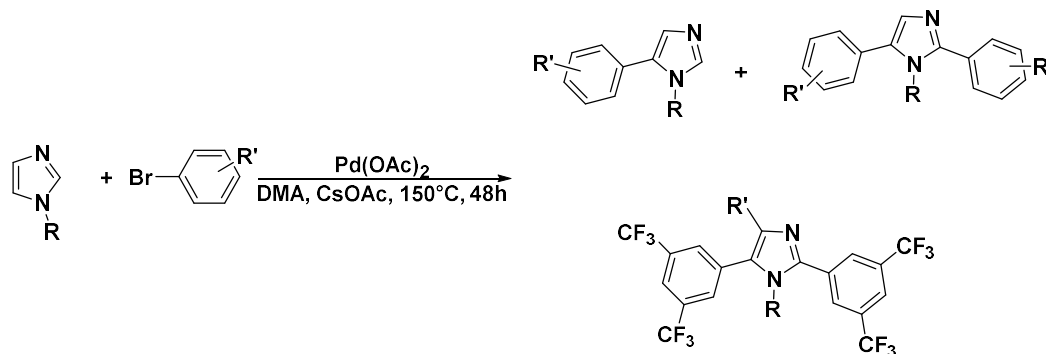
Carboxylation of Aryl Bromides with Carbon Dioxide with Pd catalyst and photoredox system.



469. Identification of novel antifungal agents: antimicrobial evaluation, SAR, ADME–Tox and molecular docking studies of a series of imidazole derivatives.

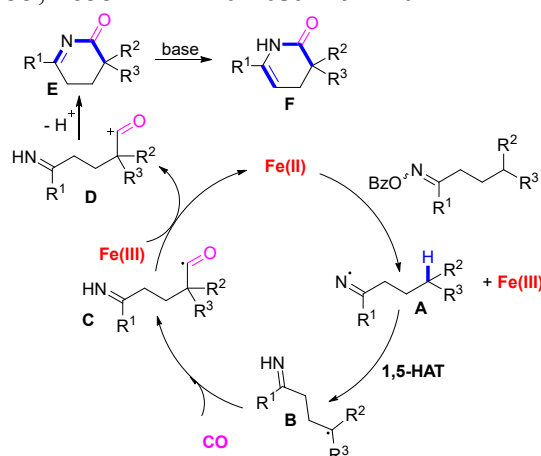
B. Bouchal, F. Abrigach, A. Takfaoui, M. E. Errahhali, P. H. Dixneuf, H. Doucet, R. Touzani and M. Bellaoui

BMC chemistry, **2019**, 13(1), 1-12.



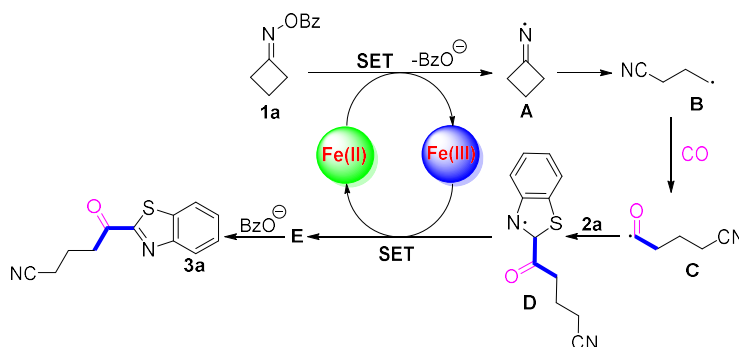
468..Carbonylation of Tertiary Carbon Radical: Synthesis of Lactams

Zhiping Yin, Zhuan Zhang, Youcan Zhang, Pierre H. Dixneuf, and Xiao-Feng Wu
Chem. Commun. **2019**, 55, 4655. DOI: 10.1039/C9CC02112D

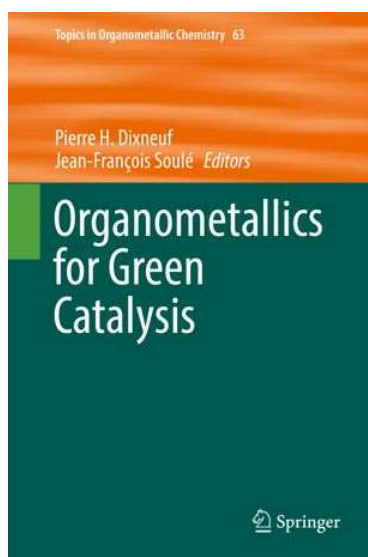


467..Iron-Catalyzed Carbonylative Alkyl-Acylation of Heteroarenes

Zhiping Yin; Zhuan Zhang; Jean-François Soulé; Pierre H Dixneuf, Xiao-Feng Wu,
J. Catal. **2019**, 372, 272-276. doi.org/10.1016/j.jcat.2019.03.001



466..Book "Organometallics for Green Catalysis ",
 P. H. Dixneuf, J. F. Soulé Eds.,
 Topics in Organometallic Chemistry, Springer, volume 63, **2019**.
 ISSN 1436-6002 ISSN 1616-8534 (electronic),
 ISBN 978-3-030-10954-7 ISBN 978-3-030-10955-4 (eBook)
doi.org/10.1007/978-3-030-10955-4



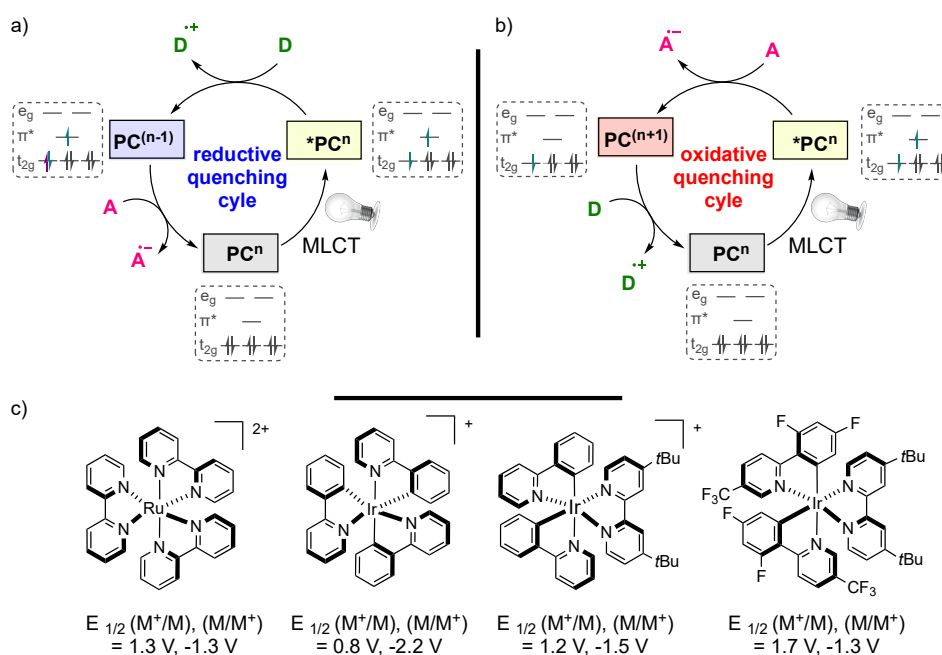
465..Book Chapter

Functionalizations of C(sp²)–H Bonds of Heterocycles and Arenes
 Assisted with Photoredox-Catalysts for the C–C Bond Formation

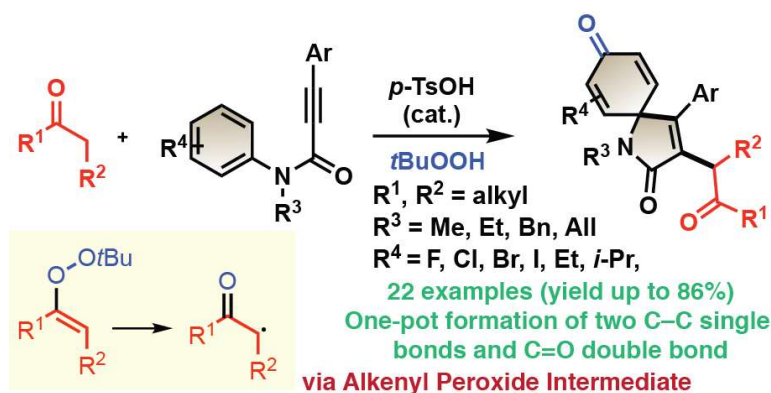
P. H. Dixneuf, J.-F. Soulé

In "Organometallics for Green Catalysis ", P. H. Dixneuf, J. F. Soulé Eds.,

Top. OrganoMet. Chem., Springer, **2019**, Vol 63, 225 – 265. DOI : [10.1007/3418_2018_22](https://doi.org/10.1007/3418_2018_22)

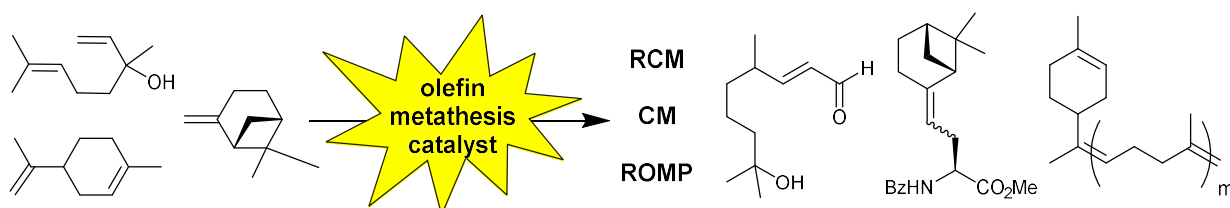


464. Access to 3-(2-Oxoalkyl)-azaspiro[4.5]trienones via Acid-Triggered Oxidative Cascade Reactions through Alkenyl Peroxide Radical Intermediate
 C.-S. Wang, T. Roisnel, P. H. Dixneuf, J.-F. Soulé,
Adv. Synth. Catal. **2019**, *361*, 445–450; DOI: 10.1002/adsc.201801203

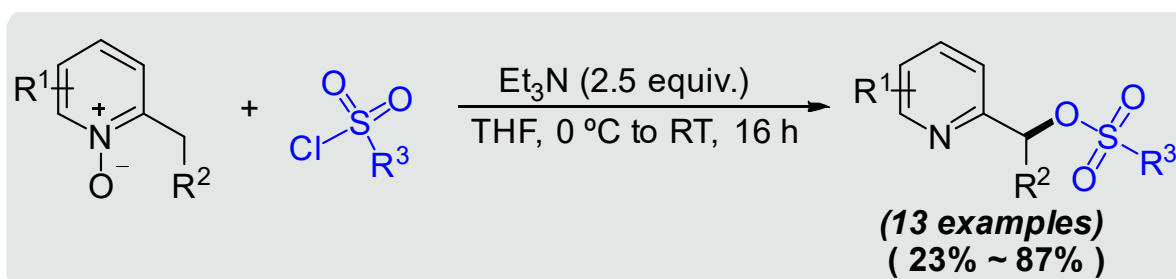


2018

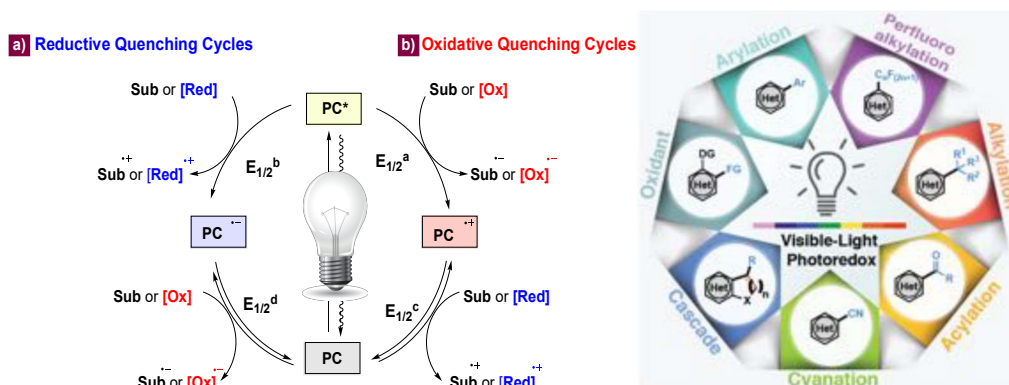
463. Transformations of Terpenes via Carbon-Carbon Double Bond Metathesis
 Bruneau, christian; Fischmeister, Cédric; Mandelli, Dalmo; Carvalho, Wagner;
 dos Santos, Eduardo; Dixneuf, pierre; Sarmiento Fernandes, Luciana
Catal. Sci. Technol., **2018**, *8*, 3989-4004, CY-MRV-06-2018-001152.R1



462. Metal-Free C(sp³)-H Bond Sulfonyloxylation of 2-Alkylpyridines and Alkylnitrones
 Chang-Sheng Wang, Pierre H. Dixneuf, and Jean-François Soulé –
Organic & Biomolecular Chemistry **2018**, *6*, 4954–4957 DOI: 10.1039/c8ob01075g



461. Photoredox Catalysis for Building C–C Bonds from C(sp²)–H Bonds
 Chang-Sheng Wang, Pierre H. Dixneuf, and Jean-François Soulé
 Chem. Rev. **2018**, 118, 7532-7585. DOI: 10.1021/acs.chemrev.8b00077



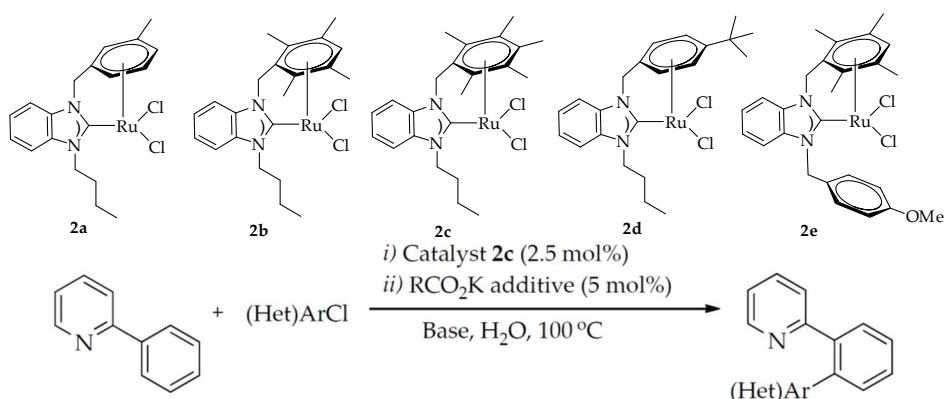
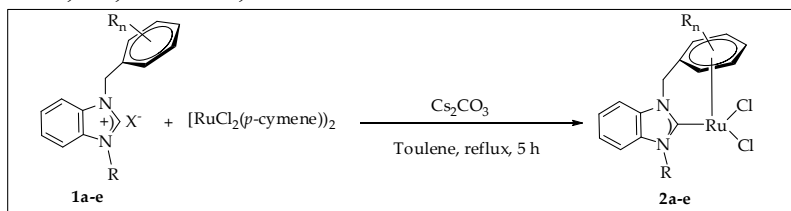
460. Late Stage Modifications of P-Containing Ligands using Transition-Metal-Catalysed C–H Bond Functionalisation,
 Zhuan Zhang, Pierre H Dixneuf and Jean-Francois Soule,
 Feature Article, *Chem. Commun.*, **2018**, 54, 7265 – 7280 DOI: [10.1039/C8CC02821D](https://doi.org/10.1039/C8CC02821D)



459. Ruthenium (n^6, n^1 -arene-CH₂-NHC) Catalysts for Direct Arylation of 2-Phenylpyridine with (Hetero)Aryl Chlorides in Water,

Nazan Kaloğlu, İsmail Özdemir, Nevin Gürbüz, Hakan Arslan and Pierre H. Dixneuf,

Molecules **2018**, 23, 647-661; doi:10.3390/molecules23030647

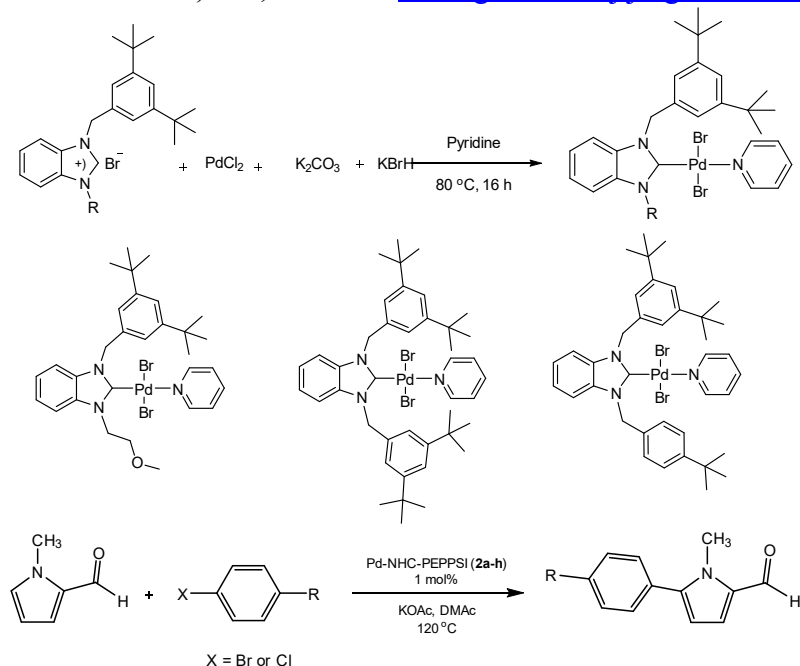


458. Synthesis of *N*-Heterocyclic Carbene-Palladium-PEPPSI Complexes and Their Catalytic Activity in The Direct C-H Bond Activation

Nazan Kaloğlu, Murat Kaloğlu, Muhammad Nawaz Tahir, Cengiz Arıcı, Christian Bruneau,

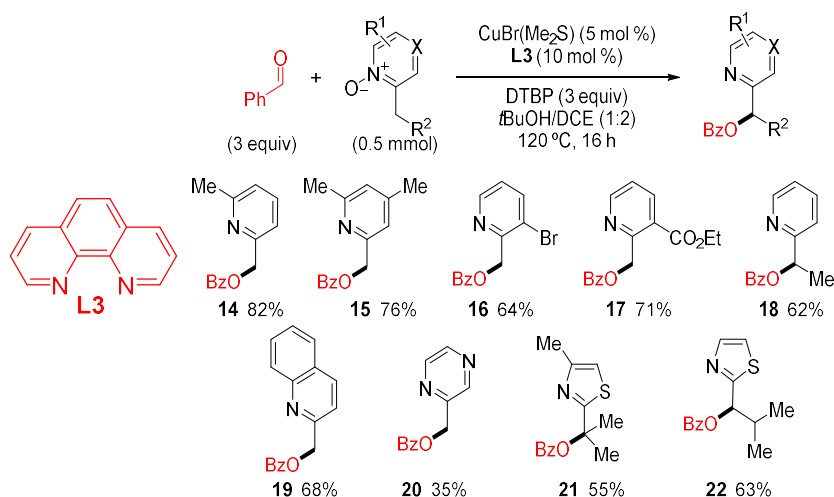
Henri Doucet, Pierre H. Dixneuf, Bekir Çetinkaya, and İsmail Özdemir

J. Organomet. Chem. **2018**, 867, 404-412. doi.org/10.1016/j.jorganchem.2017.10.019

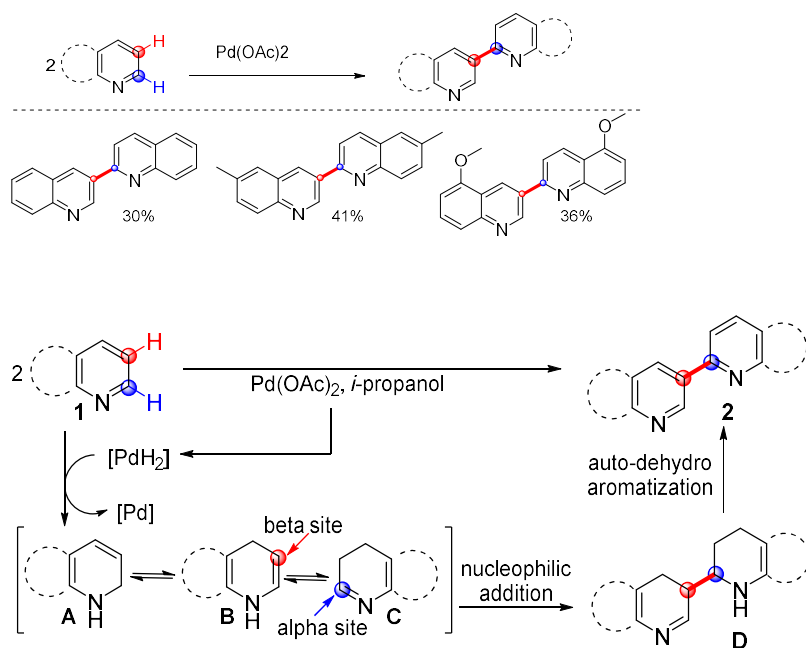


2017

457. Synthesis of 2-Pyridinemethyl Ester Derivatives from Aldehydes and 2-Alkylheterocycle N-Oxides via Copper-Catalyzed Tandem Oxidative Coupling – Rearrangement
 Wang, Chang-Sheng; Roisnel, Thierry; Dixneuf, Pierre; Soulé, Jean-François
Org. Lett. **2017**, *19*, 6720–6723. DOI: [10.1021/acs.orglett.7b03446](https://doi.org/10.1021/acs.orglett.7b03446)



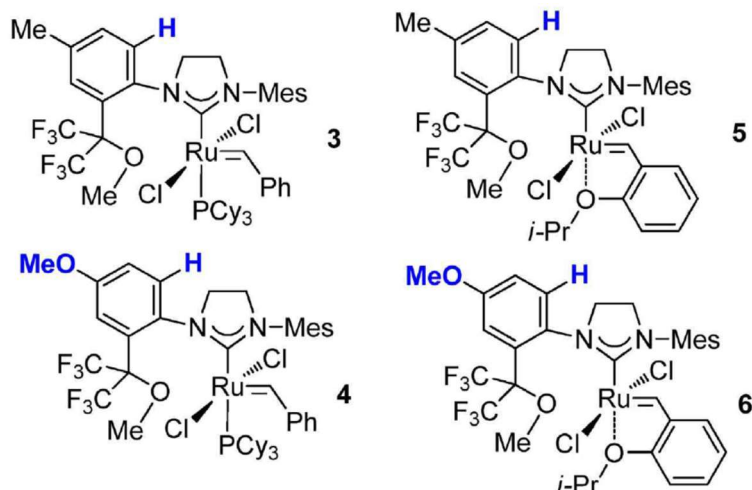
456. Selective synthesis of nitrogen bi-heteroarenes by a hydrogen transfer-mediated direct α,β -coupling reaction
 Xiu-Wen Chen, He Zhao, Biao Xiong, Huan-Feng Jiang, Pierre. H. Dixneuf and Min Zhang.
Org. Biomol. Chem., **2017**, *15*, 6093–6097. DOI: [10.1039/c7ob01434a](https://doi.org/10.1039/c7ob01434a)



455. Synthesis of metathesis catalysts with fluorinated unsymmetrical N,N'-diarylimidazoline-based NHC ligand

S. M. Masoud, M. A. Topchiy, A. S. Peregudova, T. Roisnel, P. H. Dixneuf, C. Bruneau, S. N. Osipov

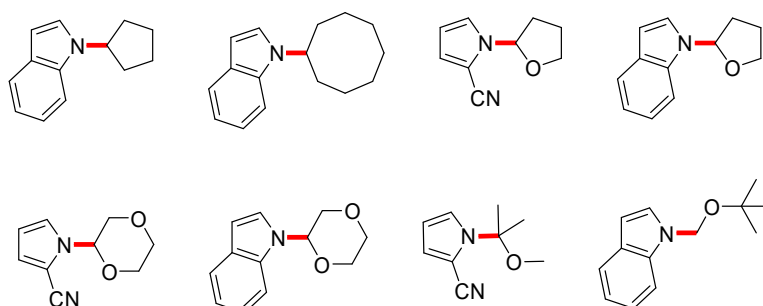
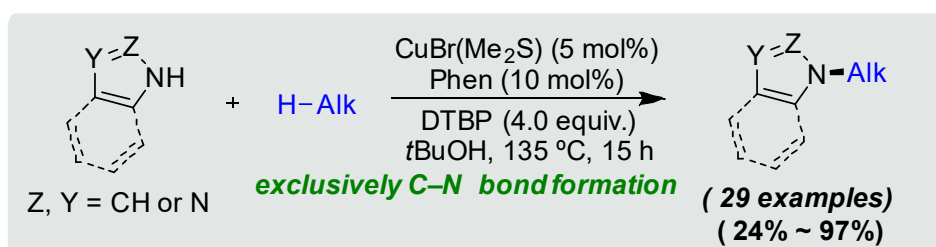
J. Fluorine Chem. **2017**, 200, 66-76. DOI: 10.1016/j.jfluchem.2017.06.004



454. Copper-Catalyzed Oxidative Dehydrogenative C(sp³)-H Bond Amination of (Cyclo)Alkanes using NH-Heterocycles as Amine Sources

Chang-Sheng Wang, Xiao-Feng Wu, Pierre H. Dixneuf, and Jean-François Soulé.

ChemSusChem **2017**, 10, 3075 – 3082. DOI : 10.1002/cssc.201700783

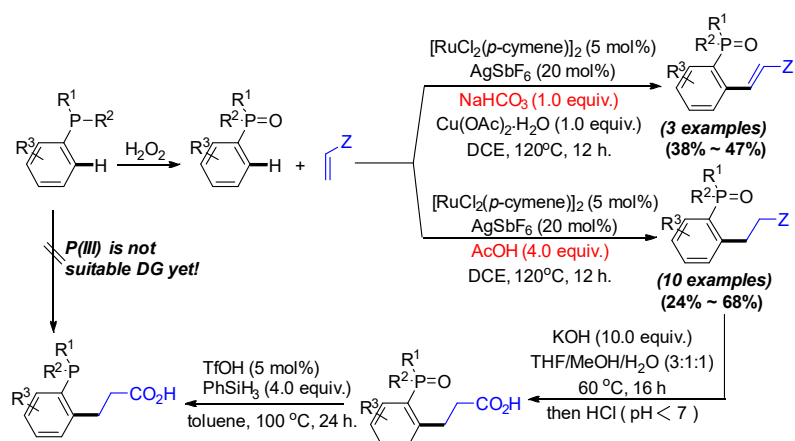


453. Ruthenium-Catalyzed C-H Bond Alkylation of Arylphosphine Oxides with Alkenes:

A Straightforward Access to Bifunctional Phosphorous Ligands with a Pendent Carboxylate

Changsheng Wang, Pierre H. Dixneuf, Jean François Soulé,

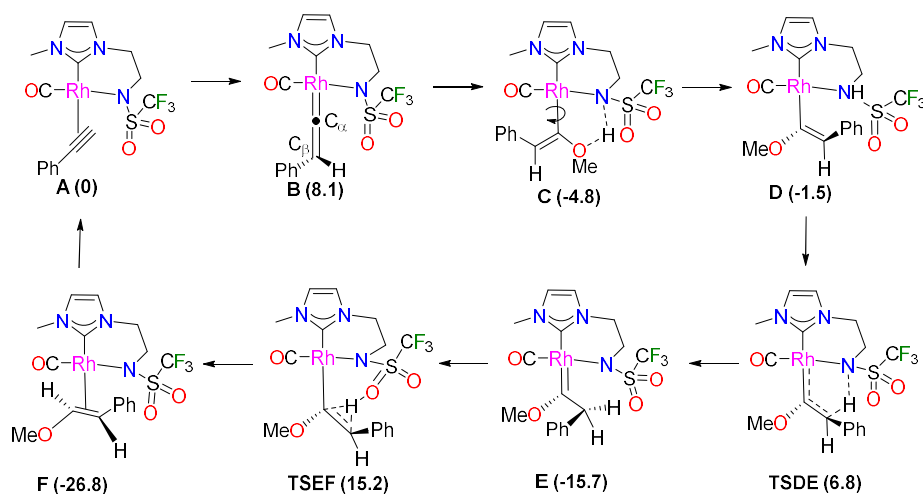
ChemCatChem, **2017**, 9, 3117-3120. DOI: 10.1002/cctc.201700557R1



452. A Triflamide-tethered NHC–Rh(I) Catalyst for Hydroalkoxylation Reactions: Ligand Promoted Nucleophilic Activation of Alcohols

Abir Sarbajna, Pragati Pandey, S. M. Wahidur Rahaman, Kuldeep Singh, Akshi Tyagi, Pierre H. Dixneuf, and Jitendra. K. Bera.

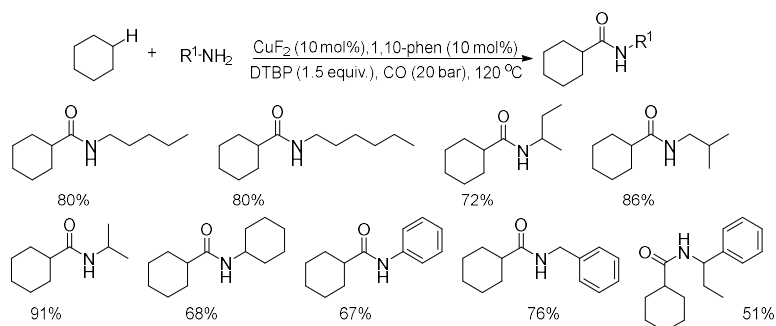
ChemCatChem **2017**, *9*, 1397 – 1401. DOI : 10.1002/cctc.201601667



451. Copper-Catalyzed Alkoxyacylation of Alkanes with Alcohols

Yahui Li, Changsheng Wang, Fengxiang Zhu, Zechao Wang, Pierre H. Dixneuf, Xiaofeng Wu

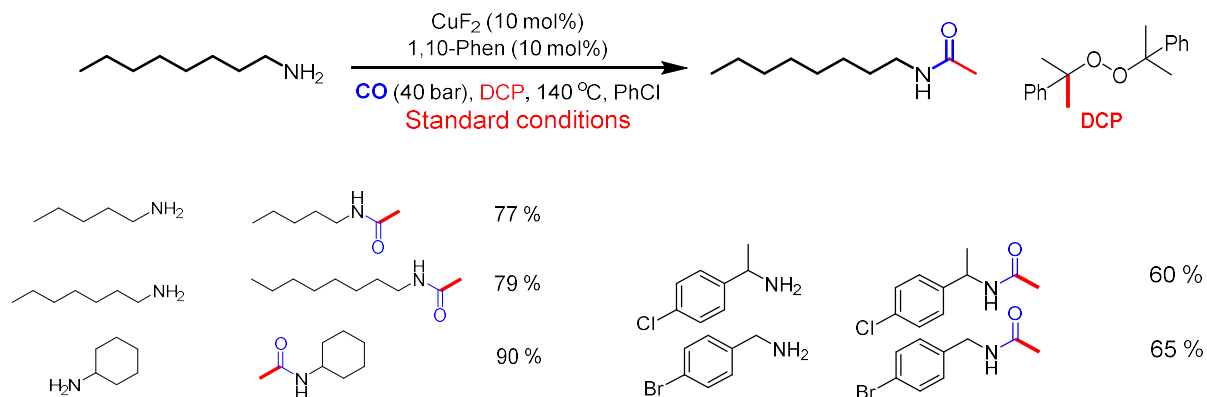
ChemSusChem **2017**, *10*, 1341 – 1345 <http://dx.doi.org/10.1002/cssc.201601587>



450. An Unexpected Copper-Catalyzed Carbonylative Acetylation of Amines

Yahui Li, Changsheng Wang, Fengxiang Zhu, Zechao Wang, Jean François Soulé, Pierre H. Dixneuf, Xiao-Feng Wu

Chem. Commun. **2017**, 53, 142-144. DOI: 10.1039/C6CC08929A.

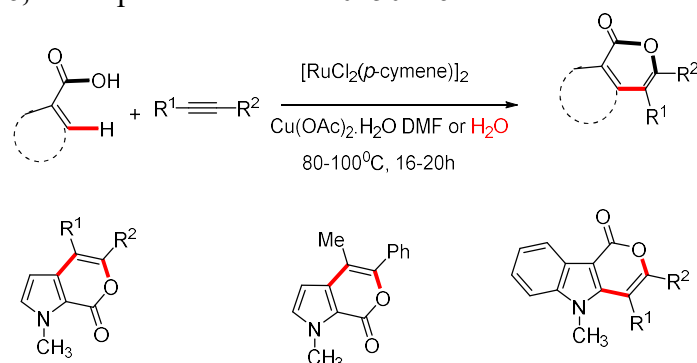


2017

449. Ruthenium(II) catalysed synthesis of pyrrole and indole fused isocoumarins via C-H bond activation in DMF and water

Keisham S. Singh, Sneha G. Sawant, Pierre H. Dixneuf

ChemCatChem, **2016**, in the press. DOI cctc.201501261R1



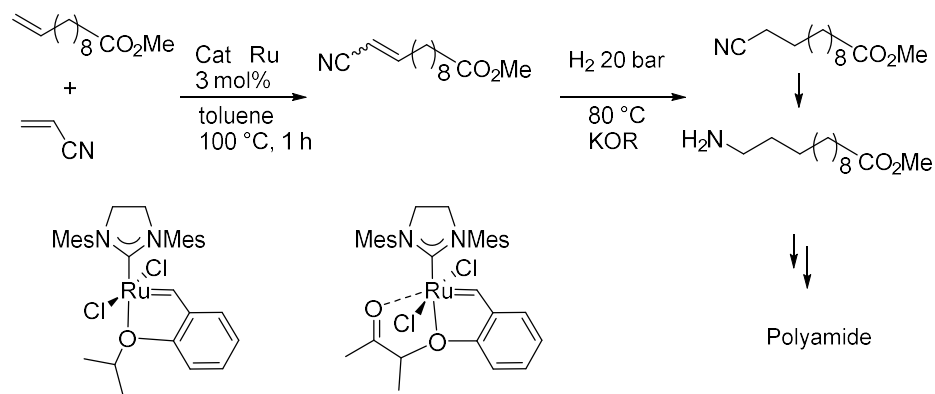
448. Review *Dedicated to Yves Chauvin*

Alkene metathesis catalysis: a key for transformations of unsaturated plant oils and renewable derivatives.

Pierre H. Dixneuf, Christian Bruneau, Cédric Fischmeister

Oil & Gas Sci. Technol.– Rev. IFP Energies nouvelles, **2016**, 71, 19-40 pages

DOI: 10.2516/ogst/2015033



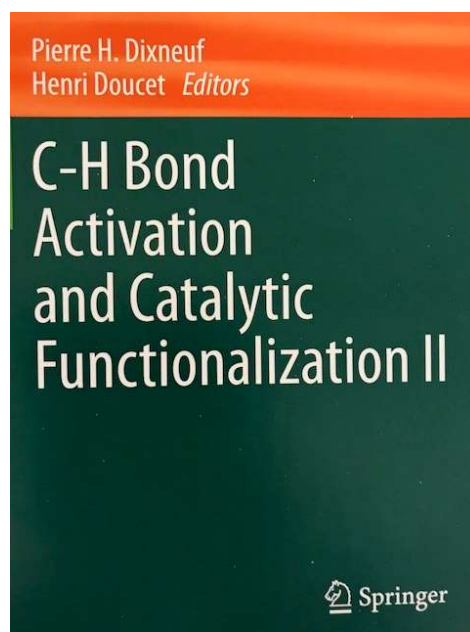
447. Book

C-H Bond Activation and catalytic functionalization, volume II

P. H. Dixneuf, H. Doucet Eds.,

Topics in Organometallic Chemistry series, Springer, 2016, 56, Volume II,

ISBN: 978-3-319-24802-8 (Print) 978-3-319-29319-6 (Online)



2015

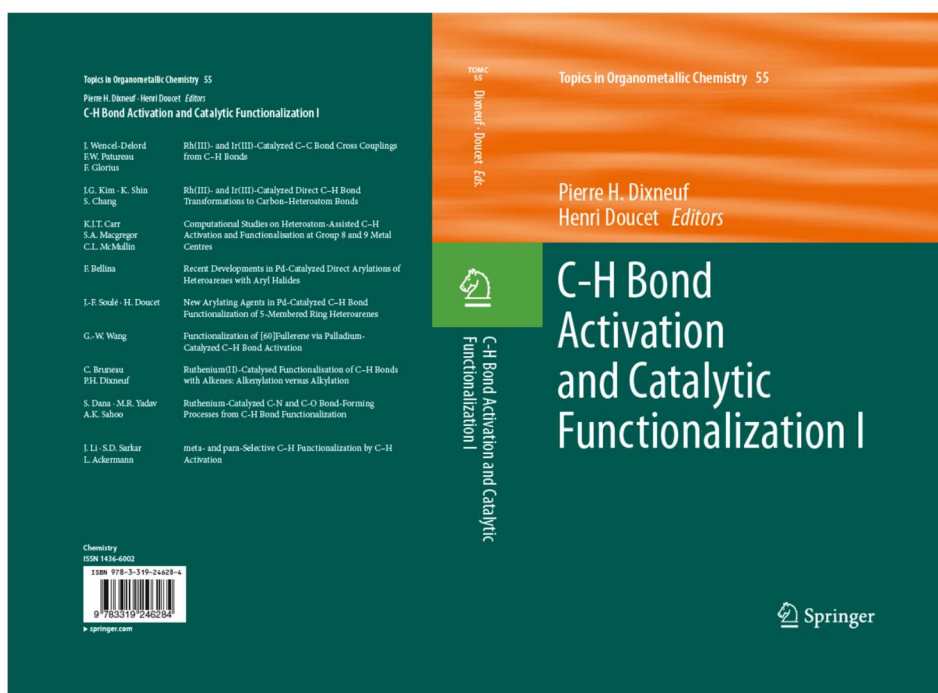
446. Book

C-H Bond Activation and catalytic functionalization I,

P. H. Dixneuf, H. Doucet Eds.,

Topics in Organometallic Chemistry series, Springer, 2015, 55, Volume I,

ISSN 1436-6002; ISBN 978-3-319-24628-4



445. Book Chapter

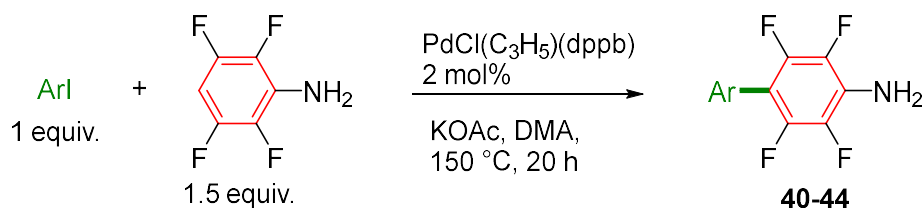
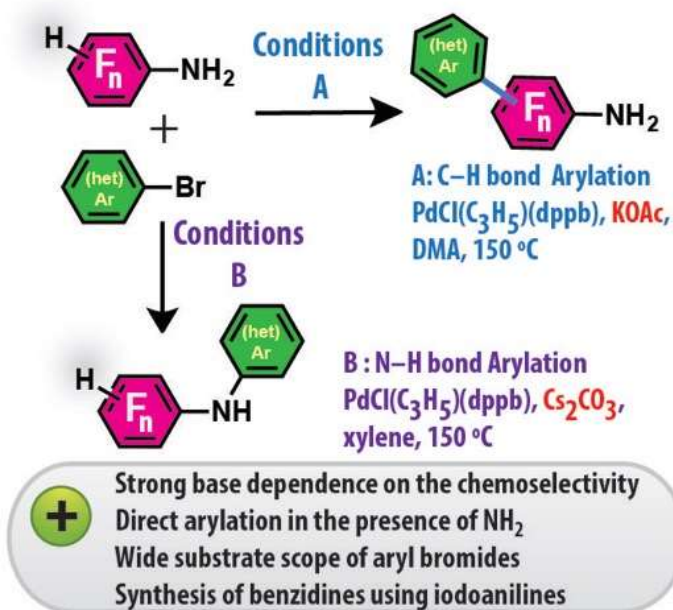
Ruthenium(II)-catalyzed functionalization of C-H bonds with alkenes: alkenylation *versus* alkylation"

Christian Bruneau and Pierre H. Dixneuf, in "C-H Bond Activation and catalytic functionalization", P. H. Dixneuf, H. Doucet Eds., Top. Organomet. Chem., Springer, 2015, 55, volume I, 137-188. ISSN 1436-6002; ISBN 978-3-319-24628-4

Dedicated to Guy Lavigne

444. Palladium-Catalysed Direct Arylation using Free-Amine-Substituted Polyfluoroanilines with Inhibition of Amination-Type Reaction

Abdelilah Takfaoui, Rachid Touzani, Jean-François Soulé, Pierre H. Dixneuf, Henri Doucet
 Asian J. Org. Chem. 2015, 4, 1085-1095; DOI: 10.1002/ajoc.201500268.

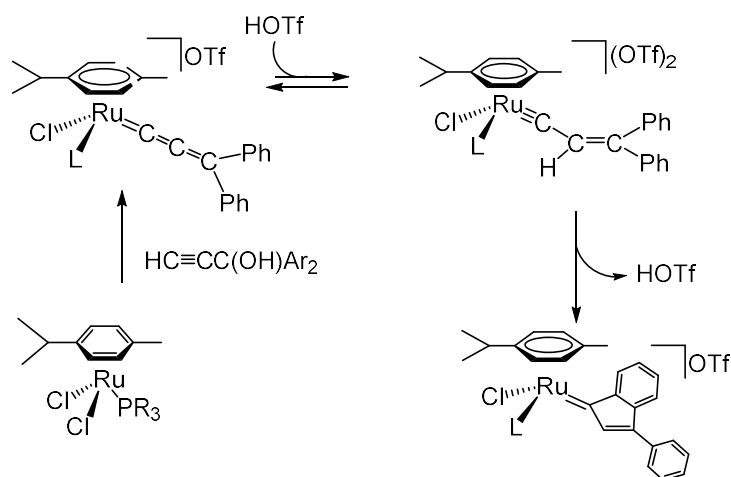


443. Book Chapter

Ruthenium Indenylidene Catalysts for Alkene Metathesis

P. H. Dixneuf, C. Bruneau

in "Handbook of Metathesis, Volume 1: Catalyst Development and Mechanism", R. H. Grubbs, A. G. Wenzel Eds., Wiley VCH, Weinheim, 2nd edition, 2015, pp 389-416.
 ISBN: 978-3-527-33948-8

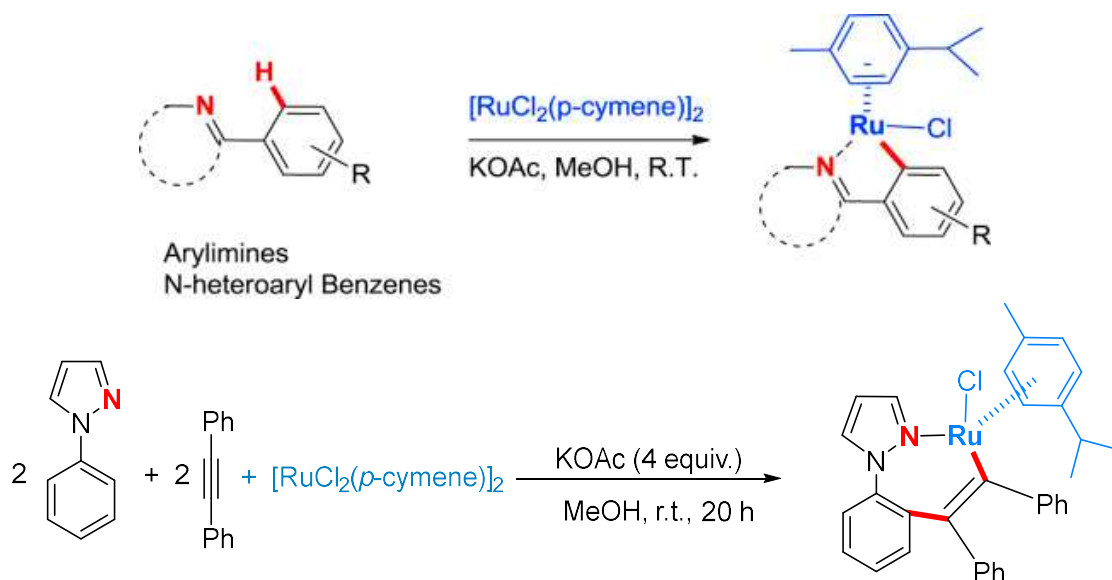


442. Cycloruthenation of aryl imines and N-heteroaryl benzenes via C-H bond activation with Ru(II) and acetate partners

Bin Li, Christophe Darcel, Thierry Roisnel, Pierre H. Dixneuf

J. Organometal. Chem., 2015, 793, 200–209; doi:10.1016/j.jorganchem.2015.02.050

Within the volume "Functionalization of CH Bonds with Applications in Catalysis", edited By Georgiy Borisovich Shul'pin and Richard D. Adams and dedicated to Alexander Shilov

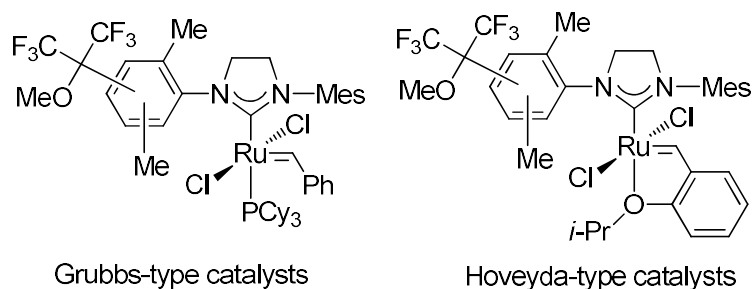
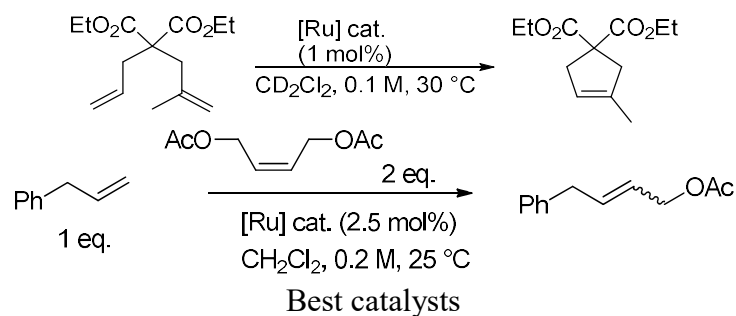


441. Metathesis catalysts with fluorinated unsymmetrical NHC ligands

Salekh M. Masoud, Artur K. Mailyan, Vincent Dorcet, Thierry Roisnel, Pierre H. Dixneuf, Christian Bruneau, Sergey N. Osipov.

Organometallics 2015, 34, 2305–2313. DOI: 10.1021/om501077w

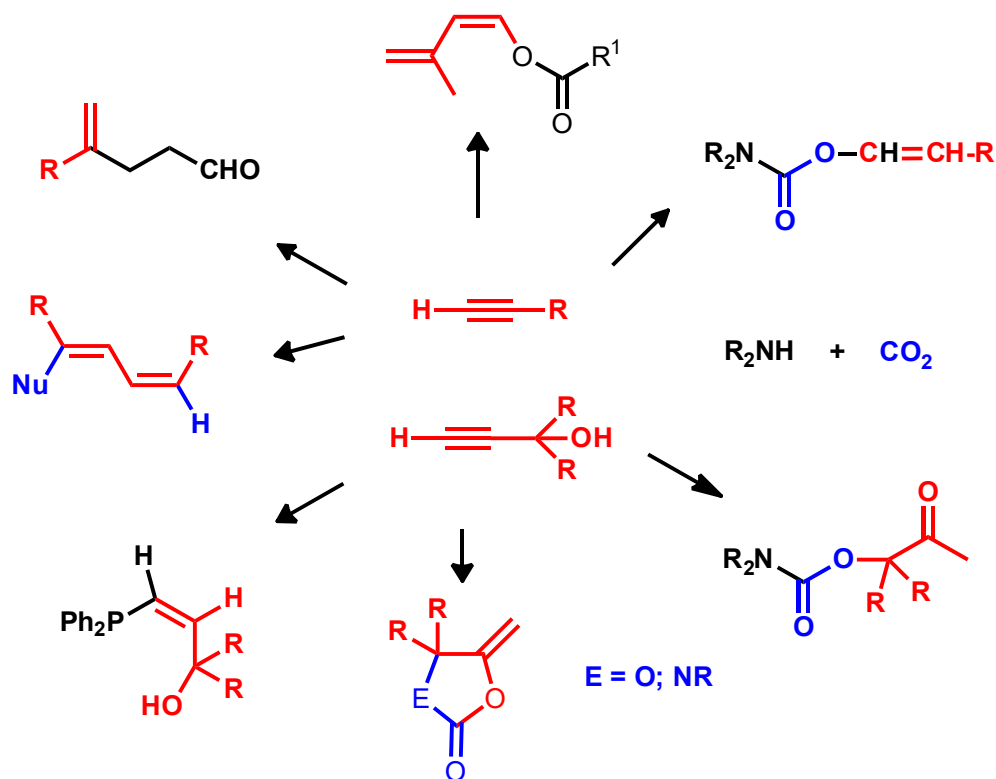
Mike Lappert memorial issue



440. Early steps of homogeneous catalysis in Rennes: carbon dioxide incorporation, alkyne activation and ruthenium catalysis.

Pierre H. Dixneuf, *Catal. Lett.*, **2015**, 145, 360–372. DOI: 10.1007/s10562-014-1444-9

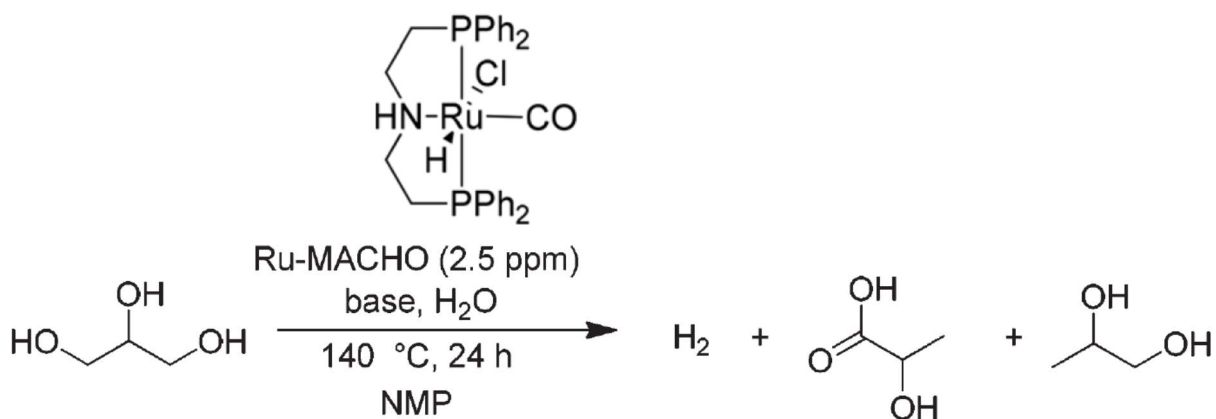
Dedicated to M. I. Bruce and B. M. Trost



439. Ruthenium-catalyzed Hydrogen Generation from Glycerol and Selective Synthesis of Lactic Acid

Yang Li, Martin Nielsen, Bin Li, Pierre H. Dixneuf, Henrik Junge, Matthias Beller

Green Chem., **2015**, 17, 193-198. DOI: 10.1039/C4GC01707B



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438. Book

Ruthenium in Catalysis

Christian Bruneau and Pierre H. Dixneuf,

Topics in Organometallic Chemistry series, Springer, 2014,

DOI 10.1007/978-3-319-08482-4; ISBN 978-3-319-08482-4



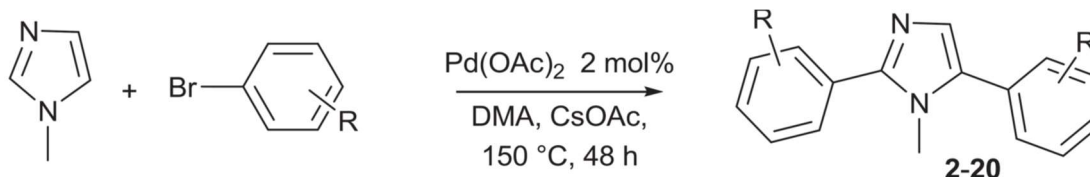
437. Book Chapter

Activation of sp² C-H bonds and C-C cross-coupling reactions with ruthenium(II) catalysts;
B. Li; P. H. Dixneuf, in Ruthenium in Catalysis
(Eds: Bruneau C.;Dixneuf, P. H.), Topics in Organometallic Chemistry series, Springer,
2014, p 119-193.

436. One Pot Pd(OAc)₂-Catalysed 2,5-Diarylation of Imidazoles Derivatives

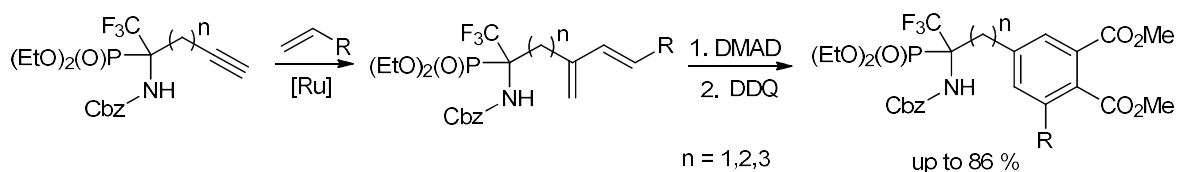
Abdelilah Takfaoui, Liqin Zhao, Rachid Touzani, Jean-Francois Soulé, Pierre H. Dixneuf,
Henri Doucet, *Tetrahedron* **2014**, 70, 8316-8323.

<http://dx.doi.org/10.1016/j.tet.2014.09.012>



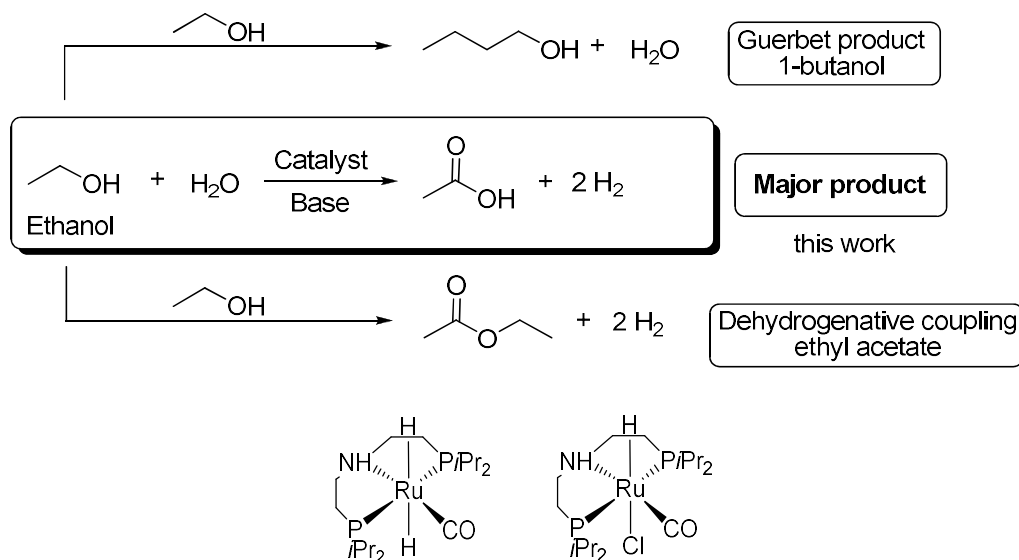
435. Access to functionalized α -CF₃- α -aminophosphonates *via* intermolecular ene-yne metathesis

Ivan M. Krylov, Artur K. Mailyan, Maria A. Zotova, Christian Bruneau, Pierre H. Dixneuf, Sergey N. Osipov. *Synlett*, **2014**, 25 2626-2628, DOI: 10.1055/s-0034-1379229



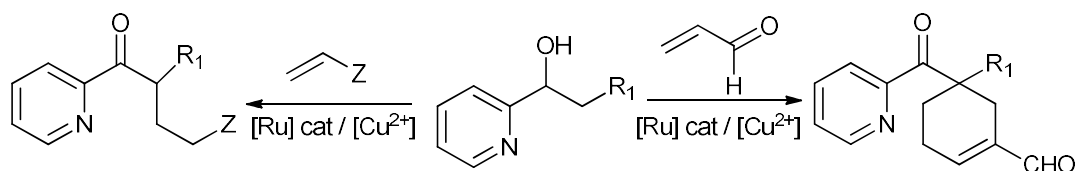
434. Efficient and Selective Hydrogen Generation from Bioethanol using Ruthenium Pincer-type Complexes

Peter Sponholz, Dörthe Mellmann, Christoph Cordes, Pamela G. Alsabeh, Bin Li, Yang Li, Martin Nielsen, Henrik Junge, Pierre Dixneuf, Matthias Beller *ChemSusChem*, **2014**, 7, 2419-2422, DOI: 10.1002/cssc.201402426.



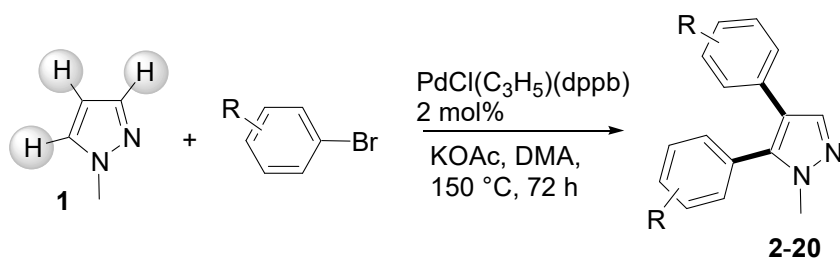
433. sp³C-H bond alkylation of ketones with alkenes *via* ruthenium(II) catalysed dehydrogenation of alcohols

Bin Li, Christophe Darcel, Pierre H. Dixneuf, *Chem. Commun.*, **2014**, 50, 5970-5972. DOI:10.1039/C4CC00931B.



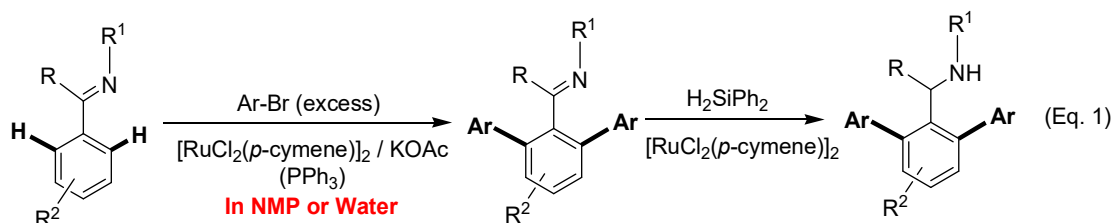
432. Palladium-catalysed direct diarylations of pyrazoles with aryl bromides: A one step access to 4,5-diarylpyrazoles

Takfaoui, A., Zhao, L., Touzani, R., Dixneuf, P.H., Doucet, H., *Tetrahedron Letters*, **2014**, 55(10), 1697 – 1701. DOI:10.1002/chin.201432143



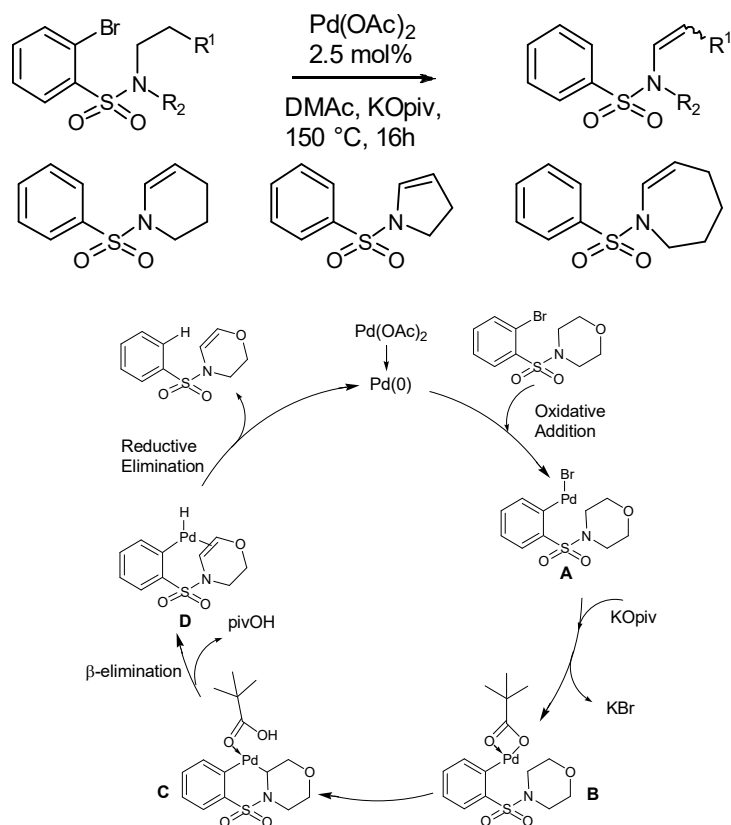
431. Sequential ruthenium(II)-acetate catalyzed C-H bond diarylation in NMP or water and hydrosilylation of imines.

Bin Li, Charles B. Bheeter Christophe, Darcel, Pierre H. Dixneuf, *Top Catal* **2014**, 57, 833–842. DOI 10.1007/s11244-014-0244-1

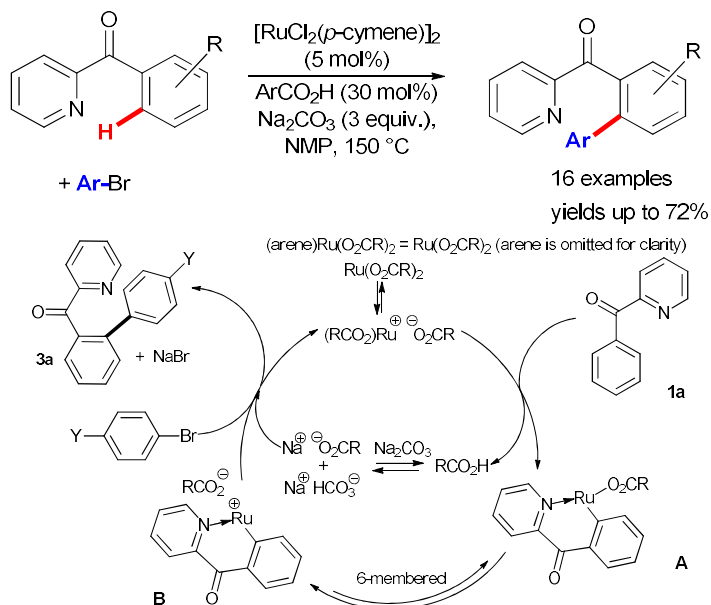


430. Palladium-catalyzed dehydrogenative sp³ C-H bonds functionalisation into alkenes: a direct access to N-alkenyl-benzenesulfonamides

Charles B. Bheeter, Rongwei Jin, Jitendra K. Bera, Pierre H. Dixneuf, Henri Doucet *Adv. Synth. Catal.* **2014**, 356, 119-124.



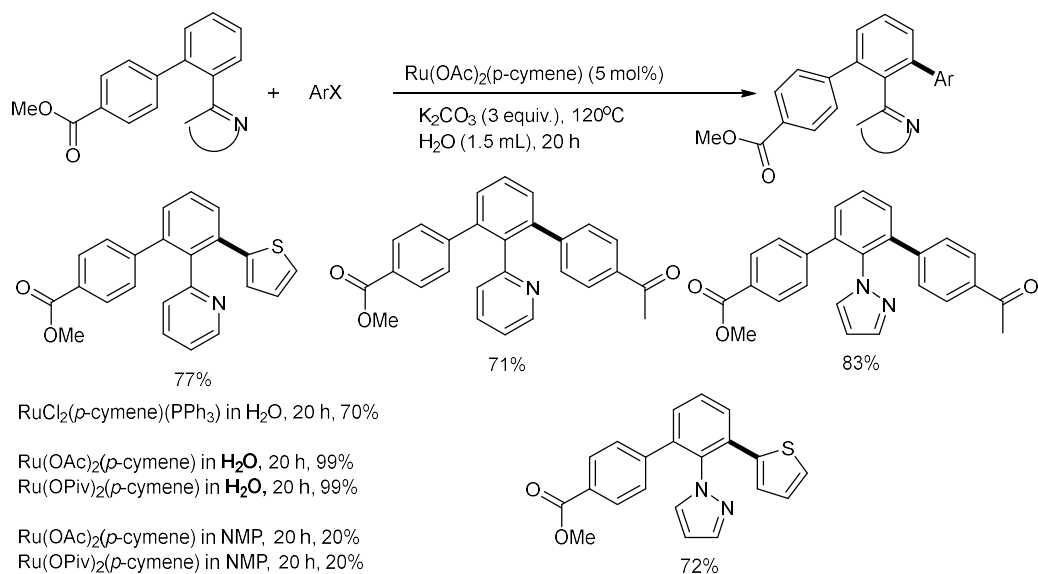
429. Ruthenium(II)-catalysed Functionalisation of C-H Bonds via a Six-membered Cyclometallate: Monoarylation of Aryl 2-pyridyl Ketones
 Bin Li, Christophe Darcel, Pierre H. Dixneuf, *ChemCatChem* **2014**, *6*, 127-130.
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2013

428. Review

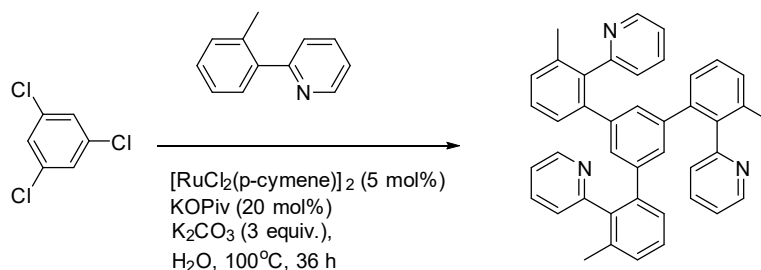
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427. Book chapter

Metal-catalyzed C-H bond activation and C-C bond formation in water

B. Li; P. H. Dixneuf, in metal-catalyzed reactions in water (Eds: Dixneuf, P. H.; Cadierno V.), Wiley, 2013, chapter 2, PP 47-86, ISBN: 978-3-527-33188-8



426. Book

Metal Catalyzed reactions in water

Pierre H. Dixneuf, and Victorio Cadierno

Wiley, 2013, 426 pages ISBN: 978-3-527-33188-8

Water is abundant in nature, non-toxic, non-flammable and renewable and could therefore be safer and economical for the chemical industry wherever it is used as a solvent. This book provides a comprehensive overview of developments in the use of water as a solvent for metal catalysis, illustrating the enormous potential of water in developing new catalytic transformations for fine chemicals and molecular materials synthesis.

A group of international experts cover the most important metal-catalyzed reactions in water and bring together cutting-edge results from recent literature with the first-hand knowledge gained by the chapter authors. This is a must-have book for scientists in academia and industry involved in the field of catalysis, greener organic synthetic methods, water soluble ligands and catalyst design, as well as for teachers and students interested in innovative and sustainable chemistry.



Pierre H. Dixneuf is Emeritus Professor of Chemistry at the University of Rennes, Bretagne, France, where he built a team working on organometallic chemistry and catalysis and founded the Research Institute of Chemistry of Rennes. He developed several catalytic processes based on innovative ruthenium catalysts: selective transformations of alkyne and incorporation of CO₂ ruthenium-vinylidene and allyl-vinylidene in catalysis, catalytic synthesis of heterocycles, allylic methylation catalysts and transformation of plant oils, C-H bond activation/functionalization including in water. He has designed new ruthenium catalysts especially involving metal-carbene bonds. He was research advisor at both CNRS and University of Rennes. He has authored/co-authored more than 400 publications, and is a member of the Institut Universitaire de France (IUF). His work has been acknowledged with several prizes including: A. v Humboldt, L. E. Bail, C. Grand-Willig, Saccoré medal, prix IFF of Académie des Sciences.



Victorio Cadierno received his PhD degree from the University of Oviedo (Spain) in 1996 under the supervision of Prof. J. Gimeno. He then joined the group of Dr. J. P. Maguad at the Laboratoire de Chimie de Coordination (LCC-CNRS) in Toulouse (France) for a two-year postdoctoral stay. Thereafter, he returned to the University of Oviedo where he is currently Associate Professor of Inorganic Chemistry. In 2008 he received the Young Investigator Award from the Spanish Royal Society of Chemistry (RSOC). His research interests cover the chemistry of ruthenium complexes and their catalytic applications, with special focus on atom economical processes both in organic solvents and aqueous media. He has published more than 150 articles, reviews and book chapters in these fields.



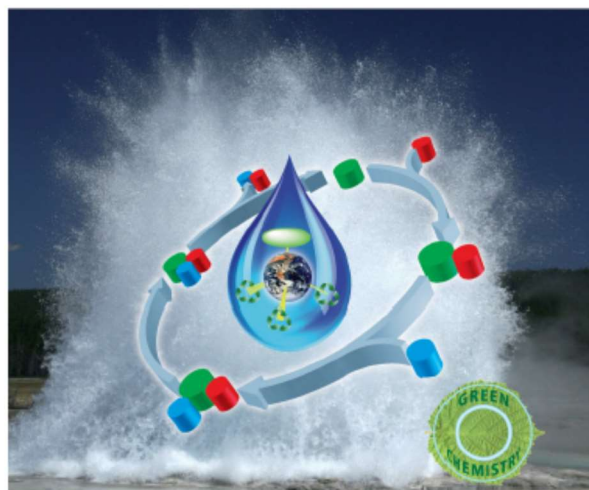
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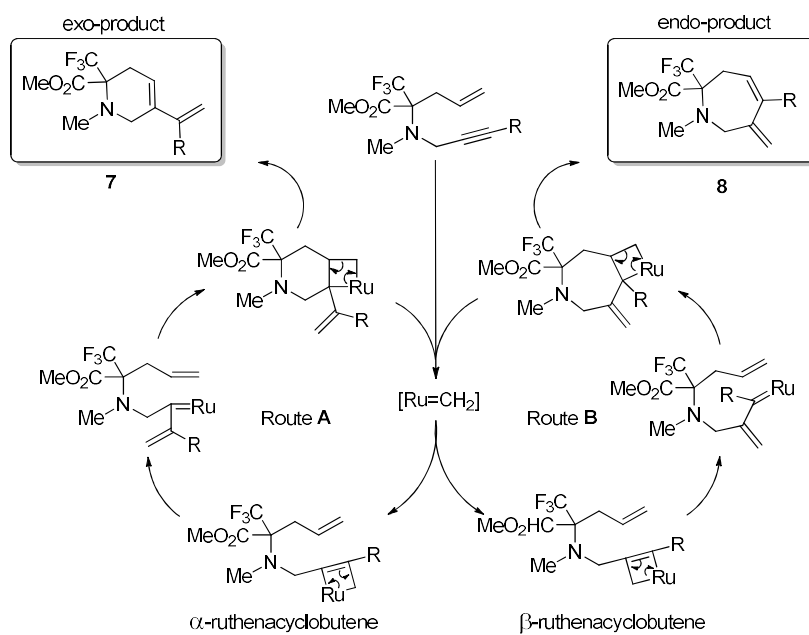
Metal-Catalyzed Reactions in Water



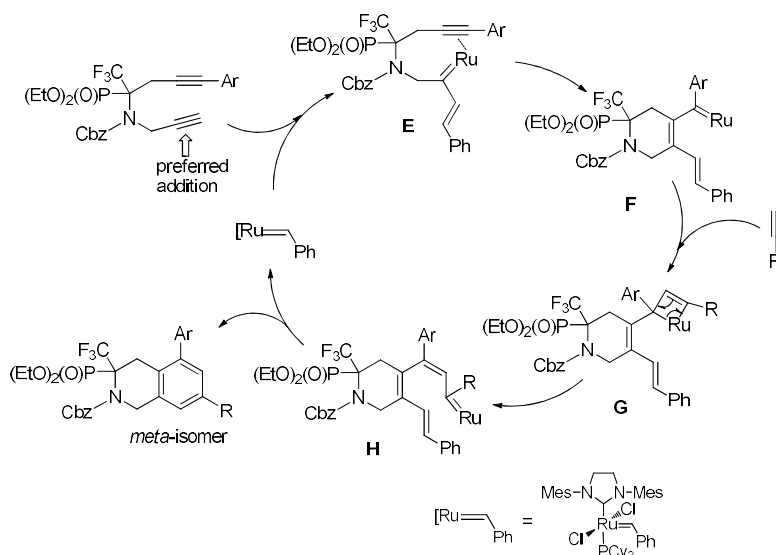
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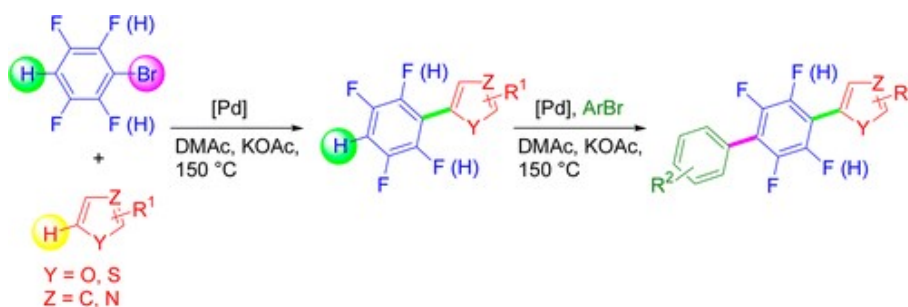
425. Access to Cyclic α -CF₃-substituted α -Amino Acid Derivatives via Ring Closing Metathesis of Functionalized 1,7-Enynes
Artur K. Mailyan, Ivan M. Krylov, Christian Bruneau Pierre H. Dixneuf and Sergey N. Osipov
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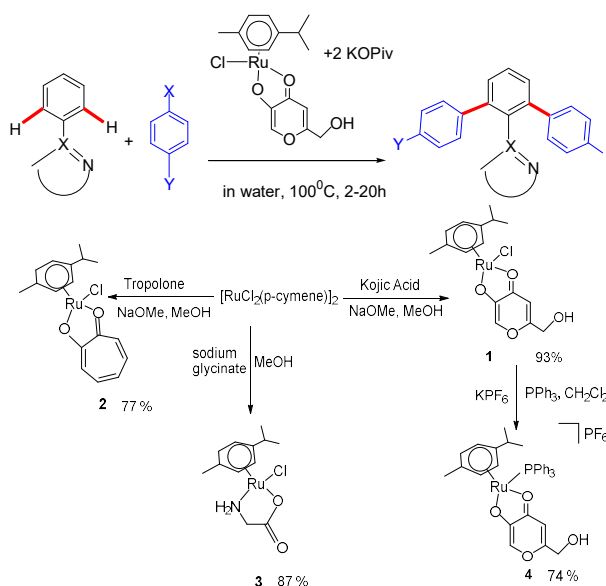
424. Synthesis of CF₃ Containing 1,2,3,4-Tetrahydroisoquinoline-3-Phosphonates via Regioselective Ru-Catalyzed Co-cyclotrimerization of 1,7-Azadiynes
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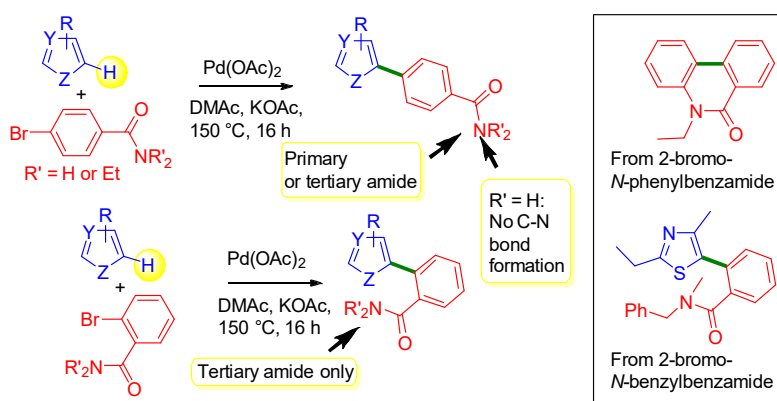
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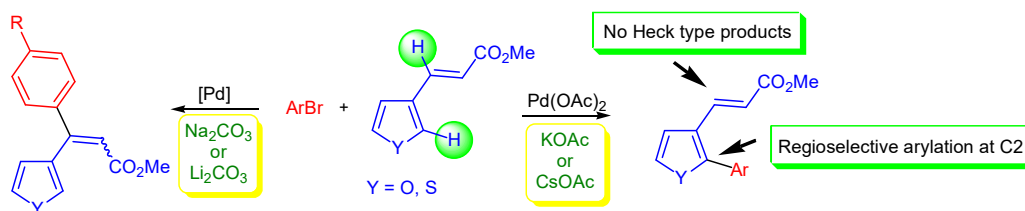
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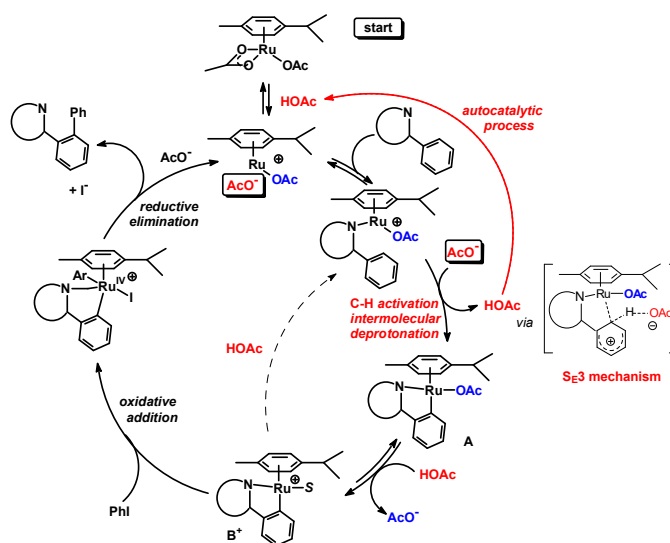
420. Palladium-Acetate Catalyst for Regioselective Direct Arylation at C2 of 3-Furanyl or 3-Thiophenyl Acrylates with Inhibition of Heck Type Reaction
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Indira Fabre, Niklas von Wolff, Gaëtan Le Duc, Emmanuel Ferrer Flegeau, Christian Bruneau, Pierre H. Dixneuf, Anny Jutand

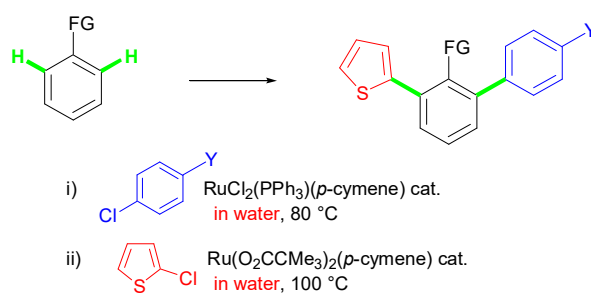
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