

Books, Reviews and book Chapters 2004 -2013

Books

C-H Bond Activation and catalytic functionalization,
P. H. Dixneuf, H. Doucet Eds.,
Topics in Organometallic Chemistry series, Springer, **2015**, 55, Volume II.

C-H Bond Activation and catalytic functionalization,
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

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

Metal Catalyzed reactions in water
Pierre H. Dixneuf and Victorio Cadierno Editors
Wiley-VCH, **2013**, ISBN: 978-3-527-33188-8

Metal Vinylidenes and Allenylidenes in Catalysis.
C. Bruneau, P. H. Dixneuf Editors
Wiley-VCH, **2008**, ISBN 978-3-527-31892-6

Ruthenium catalysts in fine chemistry
C. Bruneau, P. H. Dixneuf Editors
Topics in organometallic chemistry, **2004**, volume 11, Springer, ISBN-3-540-20543-8

Reviews and book chapters

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.

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.

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

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.

sp²C-H Bond activation in water and catalytic cross-coupling reactions

B. Li, P. H. Dixneuf

Chem. Soc. Rev. **2013**, *42* (13), 5744 - 5767 DOI:10.1039/C3CS60020C.

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

Ruthenium(II) Catalyzed C-H Bond Activation and Functionalization

Percia Beatrice Arockiam, Christian Bruneau, Pierre H. Dixneuf

Chem. Rev. **2012**, *112* (11), 5879–5918. DOI : 10.1021/cr300153j

A Green Route to nitrogen-containing groups: the acrylonitrile cross-metathesis and applications to plant oil derivatives.

X. Miao, P. H. Dixneuf, C. Fischmeister, C. Bruneau

Review : *Green Chem.*, 2011, 13, 2258-2271

Alkene metathesis and renewable materials: selective transformations of plant oils

R. Malacea, P. H. Dixneuf,

Book chapter Nato series Dragutan Eds, 2009

(Arene)ruthenium catalysts for olefin metathesis

C. Bruneau, C. Fischmeister, P. H. Dixneuf

Review *Chem. Today* 27 (2009) 17-19

R. Malacea, P. H. Dixneuf “Ruthenium allenylidenes and indenylidenes as catalysts in alkene metathesis” in *Metal Vinylidenes and Allenylidenes in Catalysis*, C. Bruneau, P. H. Dixneuf Editors Wiley-VCH, 2008, 251-277

C. Fischmeister, P. H. Dixneuf “New ruthenium catalysts for alkene metathesis” in *Metathesis Chemistry: from Nanostructure Design to synthesis of Advanced Materials*, Y. Imamoglu, V. Dragutan Eds, Springer, 2007,

F. Pozgan, P. H. Dixneuf “Recent applications of alkene metathesis for fine chemical and supramoleclar system synthesis” in *Metathesis Chemistry: from Nanostructure Design to synthesis of Advanced Materials*, Y. Imamoglu, V. Dragutan Eds, Springer, 2007, 195-222

Cascade and sequential catalytic transformations initiated by ruthenium catalysts

C. Bruneau, S. Dérien, P. H. Dixneuf

book chapter “*Cascade catalytic reactions*” T. Müller, Ed. Springer 2006, 295-326

Redox Active Architectures and Carbon-Rich Ruthenium Complexes as Models For Molecular Wires

S. Rigaut, D. Touchard, P. H. dixneuf

book chapter “*Redox Systems Under Nano-Space Control*” Toshikazu Hirao, Ed. Springer 2006, p. 55-84

Metal vinylidenes and allenylidenes in catalysis. Applications in anti-Markovnikov additions to terminal alkynes and alkene metathesis

C. Bruneau, P. H. Dixneuf

Angew. Chem. Int. Ed., 2006, 45, 2176-2203

CH transformation at sp-hybridized carbon atoms at terminal alkynes: Dimerization of terminal alkynes

E. Bustelo, P. H. Dixneuf

in Handbook of CH Transformations, G. Dyker Ed, Wiley-VCH, Weinheim, 2005, vol. 1, 62-72

Allenylidene-Ruthenium Complexes as Versatile Precatalysts for Alkene Metathesis Reactions

R. Castarlenas, C. Fischmeister, C. Bruneau, P. H. Dixneuf

Review J. Mol. Catal. A: Chem. 2004, **213**, 31-37

The versatility of molecular ruthenium catalyst RuCl(COD)(C5Me5)

S. Dérien, P. H. Dixneuf

Review "Frontiers in Organometallic Chemistry"

J. Organomet. Chem., 2004, **689**, 1382-1392