

Eric Monflier – Publications au 21/07/2022

- (1) "Direct synthesis of lactones by double carbonylation of (2-bromo-ethyl)benzene"
E. Monflier, S. Pellegrini, A. Mortreux, F. Petit, *Tetrahedron Lett.* **1991**, 36, 4703-704.
- (2) "Carbonylation of polychloroalkanes into acid chlorides using metallic salts ternary systems: an example of multistep catalysis"
E. Monflier, A. Mortreux, F. Petit, S. Lecolier, *Chem. Soc. Chem. Commun.* **1992**, 439-441.
- (3) "Tin-cobalt carbonyl compounds synthesis and their use in homogeneous catalysis"
J.F. Carpentier, Y. Castanet, E. Monflier, A. Mortreux, S. Pellegrini, F. Petit, *J. Mol. Catal.* **1992**, 74, 465-479.
- (4) "A convenient synthesis of benzylpyruvic acid : the double carbonylation of phenethylbromide"
E. Monflier, A. Mortreux, F. Petit, *Applied Catal.* **1993**, 10, 53-67.
- (5) "Double vs monocarbonylation of phenethylbromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction"
E. Monflier, A. Mortreux, *J. Mol. Catal.* **1994**, 88, 295-300.
- (6) "Wacker oxidation of 1-decene to 2-decanone in the Presence of a Chemically Modified Cyclodextrin System: a Happy Union of Host-Guest Chemistry and Homogeneous Catalysis"
E. Monflier, E. Blouet, Y. Barbaux, A. Mortreux, *Angew. Chem. Int. Ed. Engl.* **1994**, 33, 2100-2102.
- (7) "Variable-pressure electron microscopy: characterization of a biphasic reaction system obtained by Wacker-type oxidation of 1-decene to 2-decanone"
C. Mathieu, E. Monflier, Y. Barbaux, *Spectra Anal.* **1994**, 180, 23-29.
- (8) "A convenient electrosynthesis of new $\text{Sn}(\text{Co}(\text{CO})_3\text{PR}_3)_4$ complexes and their spectroscopic characterization"
K. Bernhard, S. Pellegrini, E. Monflier, A. Mortreux, *J. Organomet. Chem.* **1995**, 486, 123-127.
- (9) "A very useful and efficient Wacker oxidation of higher α -olefins in the presence of per(2,6-di-O-methyl)- β -cyclodextrin"
E. Monflier, S. Tilloy, G. Fremy, Y. Barbaux, A. Mortreux, *Tetrahedron Lett.* **1995**, 36, 387-388.
- (10) "Palladium catalyzed hydrodimerization of butadiene in a two-phase system : drastic effect of the amine structure on the rate and selectivity"
E. Monflier, P. Bourdauducq, J.L. Couturier, J. Kervennal, A. Mortreux, *J. Mol. Catal. A: Chemical* **1995**, 97, 29-33.
- (11) "Solvent free telomerization of butadiene with water into octadienols in the presence of nonionic surfactant : an efficient micellar catalysis"
E. Monflier, P. Bourdauducq, J.L. Couturier, I. Suisse, J. Kervennal, A. Mortreux, *Catal. Lett.* **1995**, 34, 201-212.
- (12) "Enhancement of catalytic activity for hydroformylation of methyl acrylate by using biphasic and supported aqueous phase systems"
G. Fremy, E. Monflier, J.F. Carpentier, Y. Castanet, A. Mortreux, *Angew. Chem. Int. Ed. Engl.* **1995**, 34, 1474-1476.

- (13) "Highly efficient telomerization of butadiene into octadienol in a micellar system: a judicious choice of the phosphine/surfactant Combination"
E. Monflier, P. Bourdauducq, J.L. Couturier, J. Kervennal, A. Mortreux, *Applied Catalysis A: General* **1995**, *131*, 167-178.
- (14) "Molecular recognition between chemically modified β -cyclodextrin and dec-1-ene: new prospects for biphasic hydroformylation of water-insoluble olefins"
E. Monflier, G. Fremy, Y. Castanet, A. Mortreux, *Angew. Chem. Int. Ed. Engl.* **1995**, *34*, 2269-2271.
- (15) "New, highly selective, water soluble rhodium catalyst for methyl acrylate hydroformylation"
G. Fremy, E. Monflier, Y. Castanet, R. Grzybek, A. Mortreux, A.M. Trzeciak, J.J. Ziolkowski, *J. Organomet. Chem.* **1995**, *505*, 11-16.
- (16) "A Further Breakthrough in Biphasic, Rhodium Catalyzed Hydroformylation: the Use of Per(2,6-di-O-methyl)- β -Cyclodextrin as Inverse Phase Transfer Catalyst"
E. Monflier, S. Tilloy, G. Fremy, Y. Castanet, A. Mortreux, *Tetrahedron Lett.* **1995**, *36*, 9481-9484.
- (17) "Wacker Oxidation of Various Olefins in the Presence of Per(2,6-di-O-methyl)- β -cyclodextrin: Mechanistic Investigations of a Multistep Catalysis in a Solvent Free Two Phase System"
E. Monflier, S. Tilloy, Y. Barbaux, E. Blouet, A. Mortreux, *J. Mol. Catal. A: Chemical* **1996**, *109*, 27-35.
- (18) "Expanded Scope of Supported Aqueous Phase Catalysis: Efficient Rhodium-Catalyzed Hydroformylation of α , β -Unsaturated Esters"
E. Monflier, G. Fremy, J.F. Carpentier, Y. Castanet, A. Mortreux, *J. Catal.* **1996**, *162*, 339-348.
- (19) "A New Fruitful Development in Biphasic Catalysis: the Palladium-Catalyzed Hydrocarboxylation of Alkenes"
S. Tilloy, E. Monflier, F. Bertoux, Y. Castanet, A. Mortreux, *New J. Chem.* **1997**, *21*, 529-531.
- (20) "New Prospects for the Palladium Catalyzed Hydrocarboxylation of Higher α -Olefins in Two-Phase System: the Use of Chemically Modified- β -Cyclodextrin"
E. Monflier, S. Tilloy, F. Bertoux, Y. Castanet, A. Mortreux, *New J. Chem.* **1997**, *21*, 857-859.
- (21) "Comment on "Catalytic conversion in water. Part 6. A novel biphasic hydrocarboxylation of olefins catalyzed by palladium TPPTS complexes (TPPTS = $P(C_6H_4-m-SO_3Na)_3$)"
E. Monflier, A. Mortreux, *Catal. Lett.* **1998**, *50*, 115.
- (22) "An Unusual Enhancement of Catalytic Activity in Biphasic catalysis: the Rhodium Catalyzed Hydroformylation of Acrylic Esters"
G Fremy, E. Monflier, J.F. Carpentier, Y. Castanet, A. Mortreux, *J. Mol. Catal. A: Chemical* **1998**, *129*, 35-40.
- (23) "Chemically Modified β -Cyclodextrins: Efficient Supramolecular Carriers for the Biphasic Hydrogenation of Water-Insoluble Aldehydes"
E. Monflier, S. Tilloy, Y. Castanet, A. Mortreux, *Tetrahedron Lett.* **1998**, *39*, 2959-2960.
- (24) "Isomerization of Olefins in a Two-Phase System by Homogeneous Water-Soluble Nickel Complexes"
H. Bricout, A. Mortreux, E. Monflier, *J. Organomet. Chem.* **1998**, *553*, 469-471.
- (25) "Palladium-Catalyzed Hydroesterification of Propene into Methyl 2-methylpropanoate at Room Temperature and Atmospheric Pressure. Influence of Various Parameters on the Activity and Selectivity of the Reaction"
E. Civade, F. Bertoux, E. Monflier, Y. Castanet, A. Mortreux, *Catal. Lett.* **1998**, *54*, 199-205.

- (26) "Homogeneous and Biphasic Nickel-Catalyzed Isomerization of Allylic Alcohols"
H. Bricout, E. Monflier, J.F. Carpentier, A. Mortreux, *Eur. J. Inorg. Chem.* **1998**, 1739-1744.
- (27) "Easy Two-Step Synthesis of New Perfluoroalkylphenylphosphites"
T. Mathivet, E. Monflier, Y. Castanet, A. Mortreux, J.L. Couturier, *Tetrahedron Lett.* **1998**, 39, 9411-9414.
- (28) "A Convenient Synthesis of Phenylpropanoic Acids: the Palladium Catalyzed Hydrocarboxylation of Styrene Derivatives in a Two-Phase System"
F. Bertoux, S. Tilloy, E. Monflier, Y. Castanet, A. Mortreux, *J. Mol. Catal. A: Chemical* **1999**, 138, 53-57.
- (29) "Chemically Modified β -Cyclodextrins in Biphasic Catalysis: a Fruitful Contribution of the Host-Guest Chemistry to the Transition-Metal Catalyzed Reactions"
S. Tilloy, E. Monflier, F. Bertoux, A. Mortreux, *Catalysis Today* **1999**, 48, 245-253.
- (30) "Unexpected Synthesis of a New Highly Fluorocarbon Soluble Phosphite for Biphasic Catalysis".
T. Mathivet, E. Monflier, Y. Castanet, A. Mortreux, J.L. Couturier, *Tetrahedron Lett.* **1999**, 40, 3885-3888.
- (31) "Palladium Catalyzed Hydrocarboxylation of Olefins in Two-Phase System: Beneficial Effect of Alkali Metal Salt and Protective-Colloid Agents on the Stability of the Catalytic System".
F. Bertoux, E. Monflier, Y. Castanet, A. Mortreux, *J. Mol. Catal. A: Chemical* **1999**, 143, 23-30.
- (32) "Advances in Transition-Metal Catalyzed Hydroxycarbonylation Reactions in Aqueous-Organic Two-Phase System"
E. Monflier, F. Bertoux, Y. Castanet, A. Mortreux, *J. Mol. Catal. A: Chemical* **1999**, 143, 11-22.
- (33) "First Evidence of Molecular Recognition Between Cyclodextrins and a Water-soluble Ligand Used in Aqueous Phase Organometallic Catalysis"
E. Monflier, S. Tilloy, C. Méliet, A. Mortreux, D. Landy, S. Fourmentin, G. Surpateanu, *New J. Chem* **1999**, 23, 469-472.
- (34) "Comparative Raman Spectroscopy Study of Sulfonated triphenylphosphines"
S. Tilloy, E. Monflier, D. Bormann, *Vib. Spectrosc.* **1999**, 20, 165-172.
- (35) "Chemically Modified β -Cyclodextrin as Supramolecular Carriers in Biphasic Palladium Catalyzed Cleavage of Allylic Carbonates: Activity Enhancement and Substrate Selective Catalysis"
T. Lacroix, H. Bricout, S. Tilloy, E. Monflier, *Eur. J. Org. Chem.* **1999**, 3127-3129.
- (36) "Study of inclusion complexes of the β -cyclodextrin with the sodium salt of trisulfonated triphenylphosphine"
L. Caron, S. Tilloy, E. Monflier, R. J.M. Wieruszkeski, G. Lippens, D. Landy, S. Fourmentin, G. Surpateanu, *J. Inclusion Phenom.* **2000**, 38, 361-379.
- (37) "Convenient Cleavage of Water-Insoluble Allylic Substrates in the presence of Per(2,6-di-O-methyl)- β -cyclodextrin"
R. Widehem, H. Bricout, E. Monflier, *Synlett* **2000**, 5, 722-724.
- (38) "Scanning Tunneling Microscopy Investigation of an Inclusion Complex Between the β -Cyclodextrin and the Sodium Salt of the Trisulfonated Triphenylphosphine"
A. Da Costa, E. Monflier, D. Landy, S. Fourmentin, G. Surpateanu, *Surface Science* **2001**, 470, 275-283.
- (39) "Substrate Selective Catalysis in Aqueous/Organic Biphasic System with per(2,6-di-O-methyl)- β -cyclodextrin"
H. Bricout, L. Caron, E. Monflier, *Catalysis Today* **2001**, 66, 355-361.

- (40) "Rhodium Catalyzed Hydroformylation of Water Insoluble Olefins in the Presence of Chemically Modified β -Cyclodextrins: evidence for ligand-cyclodextrin interactions and effect of various parameters on the catalytic activity and the aldehydes selectivity"
T. Mathivet, C. Meliet, Y. Castanet, A. Mortreux, L. Caron, S. Tilloy, E. Monflier, *J. Mol. Catal.* **2001**, 176, 105-116.
- (41) "Convenient Synthesis of New Amphiphilic Triphenylphosphine Analogues for Aqueous Biphasic Catalysis"
L. Caron, M. Canipelle, S. Tilloy, H. Bricout, E. Monflier, *Tetrahedron Lett.* **2001**, 42, 8837-8840.
- (42) "One and Two-Dimensional NMR Investigations of the Inclusion of the Monosulfonated Triphenylphosphine in the β -Cyclodextrin"
L. Caron, C. Christine, S. Tilloy, E. Monflier, D. Landy, S. Fourmentin, G. Surpateanu, *Supramolecular Chem.* **2002**, 14, 11-20.
- (43) "Cyclodextrins as Inverse Phase Transfer Catalysts for the Biphasic Catalytic Hydrogenation of Aldehydes: A Green and Easy Alternative to Conventional Mass Transfer Promoters"
S. Tilloy, H. Bricout, E. Monflier, *Green Chem.* **2002**, 4, 188-193.
- (44) "Thermodynamic Insight into the Origin of the Inclusion of Monosulfonated Isomers of Triphenylphosphine in the β -Cyclodextrin"
M. Canipelle, L. Caron, C. Christine, S. Tilloy, E. Monflier, *Carbohydrate Research* **2002**, 337, 281-287.
- (45) "Hydroformylation of Higher Olefins by Rhodium/tris-((1*H*,1*H*,2*H*,2*H*-perfluorodecyl)phenyl)phosphites Complexes in a Fluorocarbon/ Hydrocarbon Biphasic Medium: Effect of Perfluorinated Groups on the Stability of Catalytic System"
T. Mathivet, E. Monflier, Y. Castanet, A. Mortreux, J.-L. Couturier, *Tetrahedron* **2002**, 58, 3877-3888.
- (46) "Phosphocontaining Cyclodextrins as a New Class of Supramolecular Structures"
M.K. Gratchev, G.I. Kurochkina, E. Monflier, S. Tilloy, H. Bricout, E.E. Nifantiev, *Phosphorus Sulfur and Silicon and the Related Elements* **2002**, 177, 1489-1492.
- (47) "Theoretical investigations of the inclusion processes of (4-*tert*-butylphenyl)(3-sulfonatophenyl) (phenyl)phosphine in α -cyclodextrin"
N. Bliidi Boukamel, A. Krallafa, D. Bormann, L. Caron, M. Canipelle, S. Tilloy, E. Monflier, *J. Inclusion Phenom* **2002**, 42, 269-274.
- (48) "Perfluorooctyl substituted triphenylphosphites as ligands for hydroformylation of higher olefins in fluorocarbon/hydrocarbon biphasic medium"
T. Mathivet, E. Monflier, Y. Castanet, A. Mortreux, J.L. Couturier, *C. R. Chimie* **2002**, 5, 417-424.
- (49) "Unexpected effect of cyclodextrins on water-soluble phosphine modified rhodium hydroformylation catalysts"
L. Caron, M. Canipelle, S. Tilloy, H. Bricout, E. Monflier, *Eur. J. Inorg. Chem* **2003**, 595-599.
- (50) "Complexation of monosulfonated triphenylphosphine oxides with β -cyclodextrin: Spectroscopic study and consequence on the behaviour of cyclodextrins in aqueous-phase organometallic catalysis"
M. Canipelle, L. Caron, H. Bricout, S. Tilloy, E. Monflier, *New. J. Chem.* **2003**, 27, 1603-1608.

- (51) "Behavior of α -, β -, γ -cyclodextrins and their derivatives on an *inVitro* model of blood brain barrier"
V. Monnaert, S. Tilloy, H. Bricout, L. Fenart, R. Cecchelli, E. Monflier, *J. Pharmacol. Exp. Ther.* **2004**, 310, 745-751.
- (52) "Synthesis and amphiphilic behaviour of N,N-Bis-glucosyl-1,5-benzodiazepin-2,4-dione"
B. Lakhrissi, E. M. Essassi, M. Massoui, G. Goethals, V. Lequart, E. Monflier, R. Cecchelli, P. Martin. *J. Carbohydrate Chem.* **2004**, 23, 389-401.
- (53) "High-Pressure $^{31}\text{P}\{^1\text{H}\}$ NMR studies of $\text{RhH}(\text{CO})(\text{TPPTS})_3$ in the presence of methylated cyclodextrins: New light on rhodium catalyzed hydroformylation reaction assisted by cyclodextrins"
E. Monflier, H. Bricout, F. Hapiot, S. Tilloy, A. Aghmiz, A. M. Masdeu-Bultó, *Adv. Synth. Catal.* **2004**, 346, 425-431.
- (54) "Cleavage of water insoluble alkylallylcarbonates catalyzed by a palladium / TPPTS / cyclodextrin system: Effect of phosphine / cyclodextrin interactions on the reaction rate"
C. Binkowski, J. Cabou, H. Bricout, F. Hapiot, E. Monflier, *J. Mol. Catal. A : Chem.* **2004**, 215, 23-32.
- (55) "Cyclodextrins or calixarenes: What is the best mass transfer promoter for Suzuki cross-coupling reactions in water ? "
F. Hapiot, J. Lyskawa, H. Bricout, S. Tilloy, E. Monflier, *Adv. Synth. Catal.* **2004**, 346, 83-89.
- (56) "Methylated- β -cyclodextrins: Useful discriminating tools for substrate-selective reactions in aqueous organometallic catalysis"
J. Cabou, H. Bricout, F. Hapiot, E. Monflier, *Catal. Commun.* **2004**, 5, 265-270.
- (57) "Effect of γ -cyclodextrin and hydroxypropyl γ -cyclodextrin on the transport of doxorubicine across an *in Vitro* model of blood brain barrier"
V. Monnaert, D. Betbeder, L. Fenart, H. Bricout, A.M. Lenfant, R. Cecchelli, E. Monflier, S. Tilloy, *J. Pharmacol. Exp. Ther.* **2004**, 311, 1115-1120.
- (58) "Molecular recognition between a water-soluble organometallic complex and a β -cyclodextrin: First example of second-sphere coordination adducts possessing a catalytic activity"
L. Caron, H. Bricout, S. Tilloy, D. Landy, S. Fourmentin, E. Monflier, *Adv. Synth. Catal.* **2004**, 346, 1449-1456.
- (59) "Substrate-selective aqueous organometallic chemistry. How the size and chemical modification of the cyclodextrin influence the substrate selectivity"
C. Torque, H. Bricout, F. Hapiot, E. Monflier, *Tetrahedron* **2004**, 60, 6487-6493.
- (60) "Cyclodextrin silica-based materials: advanced characterization and study of their complexing behavior by diffuse reflectance UV-Vis spectroscopy"
A. Ponchel, S. Abramson, J. Quartararo, D. Bormann, Y. Barbaux, E. Monflier, *Micropor. Mesopor. Mater.* **2004**, 75, 261-272.
- (61) "Adamantoylated monosaccharides: new compounds for modification of cyclodextrin-containing material properties"
C. Binkowski, V. Lequart, F. Hapiot, S. Tilloy, R. Cecchelli, E. Monflier, P. Martin, *Carbohydrate Research* **2005**, 340, 1461-1468.
- (62) "Complexation of monosulfonated triphenylphosphine with chemically modified β -cyclodextrins: Effect of substituents on the stability of inclusion complexes"
M. Canipelle, S. Tilloy, A. Ponchel, H. Bricout, E. Monflier, *J. Inclusion Phenom* **2005**, 51, 79-85.
- (63) "Two-phase hydroformylation of higher olefins using randomly methylated α -cyclodextrin as mass transfer promoter: A smart solution for preserving the catalytic properties of the rhodium/trisulfonated triphenylphosphine catalytic system"
L. Leclercq, M. Sauthier, Y. Castanet, A. Mortreux, H. Bricout, E. Monflier, *Adv. Synth. Catal.* **2005**, 347, 55-59.

- (64) "Evidence of Self-inclusion Phenomenon for a New Class of Mono-substituted Alkylammonium- β -Cyclodextrins"
C. Binkowski, F. Hapiot, V. Lequart, P. Martin, E. Monflier, *Org. Biomol. Chem.* **2005**, 3, 1129-1133.
- (65) "Sulfonated Xantphos ligand and methylated cyclodextrin: a winning combination for rhodium catalysed hydroformylation of higher olefins in aqueous medium"
L. Leclercq, F. Hapiot, S. Tilloy, K. Ramkisoensing, J.N.H. Reek, Piet W.N.M. van Leeuwen, E. Monflier, *Organometallics* **2005**, 24, 2070-2075.
- (66) "Sulfobutyl ether- β -cyclodextrins: Promising supramolecular carriers for aqueous organometallic catalysis"
P. Blach, D. Landy, S. Fourmentin, G. Surpateanu, H. Bricout, A. Ponchel, F. Hapiot, E. Monflier, *Adv. Synth. Catal.* **2005**, 347, 1301-1307.
- (67) "Substrate-selective aqueous organometallic catalysis. How small water-soluble organic molecules enhance the supramolecular discrimination"
C. Torque, B. Sueur, J. Cabou, H. Bricout, F. Hapiot, E. Monflier, *Tetrahedron* **2005**, 61, 4811-4817.
- (68) "Rhodium complexes non-covalently bound to cyclodextrins: Novel water-soluble supramolecular catalysts for the biphasic hydroformylation of higher olefins"
B. Sueur, L. Leclercq, M. Sauthier, Y. Castanet, A. Mortreux, H. Bricout, S. Tilloy, E. Monflier, *Chem. Eur. J.* **2005**, 11, 6228-6236.
- (69) "Supramolecular shuttle and protective agent: a multiple role of methylated cyclodextrins in the chemoselective hydrogenation of benzene derivatives with ruthenium particles"
A. Nowicki, Y. Zhang, B. Léger, J.P. Rolland, H. Bricout, E. Monflier, A. Roucoux *Chem. Commun.* **2006**, 296-298.
- (70) "Peracetylated β -cyclodextrin as solubilizer of arylphosphines in supercritical carbon dioxide"
G. Filardo, M. Di Blasi, A. Galia, A. Ponchel, H. Bricout, A.D. Sayede, E. Monflier, *J. of Supercritical Fluids* **2006**, 36, 173-181.
- (71) "Supramolecular trapping of phosphanes by cyclodextrins: A general approach to generate phosphane coordinatively unsaturated organometallic complexes"
C. Binkowski-Machut, M. Canipelle, H. Bricout, S. Tilloy, F. Hapiot, E. Monflier, *Eur. J. Inorg. Chem.* **2006**, 1611-1619.
- (72) "How cyclodextrins can mask their toxic effect on the blood-brain barrier"
C. Binkowski-Machut, F. Hapiot, P. Martin, R. Cecchelli, E. Monflier, *Bioorg. Med. Chem. Lett.* **2006**, 16(7), 1784-1787.
- (73) "Heptakis(2,3-di-O-methyl-6-O-sulfopropyl)- β -cyclodextrin: a genuine supramolecular carrier for the Aqueous Organometallic Catalysis"
D. Kirschner, T. Green, F. Hapiot, S. Tilloy, L. Leclercq, H. Bricout, E. Monflier, *Adv. Synth. Catal.* **2006**, 348, 379-386.
- (74) "Host-guest inclusion complexes between peracetylated β -cyclodextrin and diphenyl(4-phenylphenyl) phosphine : Computational studies"
A.D. Sayede, A. Ponchel, G. Filardo, A. Galia, E. Monflier *J.Mol. Struct. THEOCHEM* **2006**, 777, 99-106.
- (75) "Hydroformylation of 1-decene in aqueous medium catalyzed by rhodium/alkyl sulfonated diphosphines system in the presence of methylated β -cyclodextrins. How the flexibility of the diphosphine backbone influences the regioselectivity"
S. Tilloy, G. Crowyn, E. Monflier, Piet W.N.M. van Leeuwen, J.N.H. Reek, *New. J. Chem.* **2006**, 30, 377-383.

- (76) "Methylated β -cyclodextrin as P-gp modulators for delivrance of doxorubicin across an *in vitro* model of blood-brain barrier"
S. Tilloy, V. Monnaert, L. Fenart, H. Bricout, R. Cecchelli, E. Monflier, *Bioorg. Med. Chem. Lett.* **2006**, 16(8), 2154-2157.
- (77) "Eco-efficient catalytic hydrodechloration of carbon tetrachloride in aqueous cyclodextrin solutions"
A. Cassez, A. Ponchel, H. Bricout, S. Fourmentin, D. Landy, E. Monflier, *Catal. Lett.* **2006**, 108, 209-214.
- (78) "Cyclodextrins as supramolecular host for organometallic complexes"
F. Hapiot, S. Tilloy, E. Monflier, *Chem. Rev.* **2006**, 106, 767-781.
- (79) "Water-soluble triphenylphosphane-3,3',3''-tricarboxylate (*m*-TPPTC) ligand and methylated cyclodextrins: a new combination for biphasic rhodium catalyzed hydroformylation of highers olefins"
S. Tilloy, F. Hapiot, D. Landy, S. Fourmentin, V. Michelet, J.P. Genêt, E. Monflier *Adv. Synth. Catal.* **2006**, 348, 1547-1522.
- (80) "Unexpected multi-functional effects of methylated cyclodextrins in palladium charcoal-catalyzed Suzuki-Miyaura reaction"
A. Cassez, A. Ponchel, F. Hapiot, E. Monflier *Org. Lett.* **2006**, 8, 4823-4826.
- (81) "Solubilisation of chlorinated solvents by cyclodextrin derivatives. A study by static headspace gas chromatography and molecular modelling"
S. Fourmentin, M. Outirite, P. Blach, D. Landy, A. Ponchel, E. Monflier, G. Surpateanu, *J. Hazard. Mater. B* **2007**, 141, 92-97.
- (82) "A versatile liposome/cyclodextrin supramolecular carrier for drug delivery through the blood brain barrier"
C. Machut-Binkowski, F. Hapiot, R. Cecchelli, P. Martin, E. Monflier *J. Incl. Phenom.* **2007**, 57, 567-572
- (83) "Aqueous organometallic catalysis promoted by cyclodextrins. Can surface tension measurements explain the efficiency of chemically modified cyclodextrins ?"
L. Leclercq, H. Bricout, S. Tilloy, E. Monflier *J. Colloid Interface Sci.* **2007**, 307, 481-487.
- (84) "First example of self-assembled supramolecular bidentate ligands for aqueous organometallic catalysis"
C. Machut, J. Patrigeon, S. Tilloy, H. Bricout, F. Hapiot, E. Monflier, *Angew. Chem. Int. Ed.* **2007**, 46, 3040-3042
- (85) "Complexation of phosphine ligands with peracetylated- β -cyclodextrin in supercritical carbon dioxide: spectroscopic determination of equilibrium constants"
A. Galia, E.C. Navarre, O. Scialdone, M. Ferreira, G.Filardo, S. Tilloy, E. Monflier, *J. Phys. Chem. B* **2007**, 111, 2573-2578
- (86) "Methylated Cyclodextrins: an efficient protective agent in water for zerovalent ruthenium nanoparticles and a supramolecular shuttle in alkene and arene hydrogenation reactions."
A. Nowicki-Denicourt, A. Ponchel, E. Monflier, A. Roucoux, *Dalton Trans.* **2007**, 5714-5719.
- (87) "Chemically modified cyclodextrins adsorbed on Pd/C particles: New opportunities to generate highly chemo- and stereoselective catalysts for Heck reaction."
A. Cassez, N. Kania, F. Hapiot, S. Fourmentin, E. Monflier, A. Ponchel, *Catal. Commun.* **2008**, 9, 1346-1351
- (88) "Biphasic Aqueous Organometallic Catalysis Promoted by Cyclodextrins: How to Design the Water-Soluble Phenylphosphane to Avoid Interaction with Cyclodextrin"
M. Ferreira, H. Bricout, A. Sayede, A. Ponchel, S. Fourmentin, S. Tilloy, E. Monflier, *Adv. Synth. Catal.* **2008**, 350, 609-618.

- (89) "Rhodium-catalyzed Hydroformylation Promoted by Modified Cyclodextrins: Current Scope and Future Developments"
F. Hapiot, L. Leclercq, N. Azaroual, S. Fourmentin, S. Tilloy, E. Monflier, *Current Organic Synthesis*, **2008**, 5(2),162-172. DOI: 10.2174/157017908784221585
- (90) "Fine tuning of sulfoalkylated cyclodextrin structures to improve their mass-transfer properties in an aqueous biphasic hydroformylation reaction"
D. Kirschner, M. Jaramillo, T. Green, F. Hapiot, L. Leclercq, H. Bricout, E. Monflier, *J. Mol. Catal. A.: Chem.* **2008**, 286, 11-20.
- (91) "Hydroformylation of 1-Octene in Supercritical Carbon Dioxide with Rhodium Alkyl P-donor Ligands Using a Peracetylated β -Cyclodextrin as Solubiliser"
C. Tortosa Estorach, M. Giménez-Pedros, A.M. Masdeu-Bultó, A.D. Sayede, E. Monflier, *Eur. J. Inorg. Chem.* **2008**, 2659-2663.
- (92) "Hydroformylation of 1-Octene in Supercritical Carbon Dioxide: Can Alkylation of Arylphosphines with *tert*-butyl Groups Lead to Soluble and Active Catalytic Systems ?"
A. Galia, A. Cipollina, G. Filardo, O. Scialdone, M. Ferreira, E. Monflier, *J. of Supercritical Fluids*. **2008**, 46, 63-70.
- (93) "A property-matched water-soluble analogue of the benchmark ligand PPh_3 "
M. Ferreria, H. Bricout, A. Sayede, F. Hapiot, S. Tilloy, E. Monflier, *Chem. Sus. Chem.* **2008**, 1, 631-636.
- (94) "Click chemistry as an efficient tool to access β -cyclodextrin dimers"
M. Mourer, F. Hapiot, E. Monflier, S. Menuel, *Tetrahedron* **2008**, 64, 7159-7163.
- (95) "Carbon-supported ruthenium nanoparticles stabilized by methylated cyclodextrins: a new family of heterogeneous catalysts for gas phase hydrogenation of arenes"
A. Denicourt-Nowicki, A. Roucoux, F. Wyrwalski, N. Kania, E. Monflier, A. Ponchel, *Chem. Eur. J.* **2008**, 14, 8090-8093.
- (96) "Easily accessible mono and polytopic β -cyclodextrin hosts by click chemistry"
M. Mourer, F. Hapiot, S. Tilloy, E. Monflier, S. Menuel, *Eur. J. Org. Chem.* **2008**, 5723-5730
- (97) "Aqueous Hydroformylation Reaction Mediated by Randomly Methylated β -Cyclodextrin: How Substitution Degree Influences Catalytic Activity and Selectivity"
F.X. Legrand, M. Sauthier, C. Flahaut, J. Hachani, C. Elfakir, S. Fourmentin, S. Tilloy, E. Monflier, *J. Mol. Catal. A. Chem.* **2009**, 303, 72-77.
- (98) "Catalytically active nanoparticles stabilized by host-guest inclusion complexes in water"
C. Hubert, A. Denicourt-Nowicki, A. Roucoux, D. Landy, B. Leger, G. Crowyn, E. Monflier, *Chem. Commun.* **2009**, 1228-1230.
- (99) "Synthesis of a halo-methylphenylene periphery-functionalized triazine-based dendritic molecule with a 3,3'-dimethyl-biphenyl linker using tris(halo-methylphenylene)triazines as building blocks"
I.D. Kostas, F.J. Andreadaki, E.A. Medlycott, G.S. Hanan, E. Monflier, *Tetrahedron Lett.* **2009**, 50, 1851-1854.
- (100) "Complexation of phosphine ligands with peracetylated β -cyclodextrin in supercritical carbon dioxide: effect of temperature and cosolvent on the equilibrium constant"
A. Galia, E.C. Navarre, O. Scialdone, G. Filardo, E. Monflier, *J. of Supercritical Fluids.* **2009**, 49, 154-160.
- (101) "Aqueous rhodium-catalyzed hydroformylation of 1-decene in the presence of randomly methylated β -cyclodextrin and 1,3,5-triaza-7-phosphaadamantane derivatives"
F.X. Legrand, F. Hapiot, S. Tilloy, A. Guerriero, M. Peruzzini, L. Gonsalvi, E. Monflier, *Appl. Catal. A: General* **2009**, 362, 62-66.

- (102) "Cobalt catalyzed hydroformylation of higher olefins in the presence of chemically modified cyclodextrins"
A.A. Dabbawala, J.N. Parmar, R.V. Jasra, H.C. Bajaj, E. Monflier, *Catal. Commun.* **2009**, *10*, 1808-1812.
- (103) "Chemically Modified Cyclodextrins: An Attractive Class of Supramolecular Hosts for the Development of Aqueous Biphasic Catalytic Processes"
H. Bricout, F. Hapiot, A. Ponchel, S. Tilloy, E. Monflier, *Sustainability* **2009**, *1*, 924-945; doi:10.3390/su1040924
(This article belongs to the special issue "Sustainable Approaches within the Chemical Sciences" published in *Sustainability* (ISSN 2071-1050; www.mdpi.com/journal/sustainability); Open Access: <http://www.mdpi.com/2071-1050/1/4/924/pdf>)
- (104) "β-cyclodextrins modified by alkyl and poly(ethylene oxide) chains: A novel class of mass transfer additives for aqueous organometallic catalysis"
N. Badi, P. Guégan, F.X. Legrand, L. Leclercq, S. Tilloy, E. Monflier, *J. Mol. Catal. A. Chem.* **2010**, *318*, 8-14.
(This paper was selected by editors to feature in the 'Editors Choice' section of the Journal. It was also chosen as a highlight for the Catalysis Virtual Special Issue in which J Mol Cat A featured: <http://mail.elsevier-alerts.com/go.asp?bESJ001/mAHLAJ3F/u234B7/xLDP1J3F>).
- (105) "New supramolecular amphiphiles based on renewable resources"
C. Machut, F. Mouri-Belabdeli, J.P. Cavrot, A. Sayede, E. Monflier, *Green Chem.* **2010**, *12*, 772–775.
- (106) "Properties and Catalytic Activities of New Easily-Made Amphiphilic Phosphanes for Aqueous Organometallic Catalysis"
M. Ferreira, H. Bricout, N. Azaroual, C. Gaillard, D. Landy, S. Tilloy, E. Monflier, *Adv. Synth. Catal.* **2010**, *352*, 1193-1203.
(This article was selected by Wiley-VCH editors as one of the Hottest Articles in Green & Sustainable Chemistry journals. <http://dmmsclick.wiley.com/view.asp?m=moqhlfd5pxdjlsjmgd30&u=10656601&f=h>)
- (107) "Activated Carbon as a Mass-Transfer Additive in Aqueous Organometallic Catalysis Chemistry"
N. Kania, B. Léger, S. Fourmentin, E. Monflier, A. Ponchel, *Chem. Eur. J.* **2010**, *16*, 6138-6141.
- (108) "Ditopic cyclodextrin-based receptors: New perspectives in aqueous organometallic catalysis"
N. Six, S. Manuel, H. Bricout, F. Hapiot, E. Monflier, *Adv. Synth. Catal.* **2010**, *352*, 1467-1475.
- (109) "Cyclodextrin and catalysis"
E. Monflier, *Curr. Org. Chem.* **2010**, *14* (13), 1265
- (110) "Cyclodextrins as mass transfer additives in aqueous organometallic catalysis"
H. Bricout, F. Hapiot, A. Ponchel, S. Tilloy, E. Monflier, *Curr. Org. Chem* **2010**, *14* (13), 1296-1307.
- (111) " 'Click' synthesis of ferrocenyl-, biferrocenyl-, and cobalticenyl-triazolyl-β-cyclodextrins"
A. K. Diallo, S. Manuel, E. Monflier, J. Ruiz, D. Astruc, *Tetrahedron Lett.* **2010**, *51*, 4617-4619.
- (112) "New phosphane based on a β-cyclodextrin exhibiting a solvent-tunable conformation and its catalytic Properties"
C. Machut-Binkowski, F.X. Legrand, N. Azaroual, S. Tilloy, E. Monflier, *Chem. Eur. J.* **2010**, 10195-10201.
- (113) "Cyclodextrin-based supramolecular P,N bidentate ligands and their Platinum and Rhodium complexes"
J. Patriceon, F. Hapiot, M. Canipelle, S. Manuel, E. Monflier, *Organometallics* **2010**, *29*, 6668-6674.
DOI: 10.1021/om100583p
- (114) "Amphiphilic photo-isomerizable phosphanes for aqueous organometallic catalysis"
H. Bricout, E. Banaszak, C. Len, F. Hapiot, E. Monflier, *Chem. Commun.* **2010**, *46*, 7813-7815.

- (115) "Noncovalent functionalization of multiwall carbon nanotubes by methylated- β -cyclodextrins modified by a triazole group"
B. Léger, S. Menuel, D. Landy, J.F. Blach, E. Monflier, A. Ponchel, *Chem. Commun.* **2010**, 46, 7382-7384.
- (116) "Cyclodextrins and Their Applications in Aqueous-Phase Metal-Catalyzed Reactions"
F. Hapiot, A. Ponchel, S. Tilloy, E. Monflier, C. R. *Chimie* **2011**, 14, 149-166.
DOI:10.1016/j.crci.2010.04.003
(Thematic issue of Comptes rendus Chimie entitled "Chemistry and biochemistry of Carbohydrates". Guest Editors Pierre Sinaÿ and Matthieu Sollogoub)
- (117) "Chemically modified cyclodextrins as supramolecular tools to generate carbon-supported ruthenium nanoparticles: an application towards gas phase hydrogenation"
F. Wyrwalski, B. Léger, C. Lancelot, A. Roucoux, E. Monflier, A. Ponchel, *Appl. Catal. A Gen.* **2011**, 391, 334-341.
(Special issue of Applied Catalysis A dedicated to Pr. Helmut Knözinger on the occasion of his 75th birthday and entitled "Recent Developments in Model Catalysis - Closing the Gap to Technical Applications". Guest Editors: Gerhard Mestl)
- (118) "Interaction of water-soluble triphenylphosphines with β -cyclodextrin: A quantum chemistry study"
A.D. Sayede, M. Ferreira, H. Bricout, S. Tilloy, E. Monflier, *J. Phys. Org. Chem.* **2011**, 24, 1129-1135.
DOI: 10.1002/poc.1833
- (119) "An ordered hydrophobic P6mm mesoporous carbon with graphitic pore walls and its application in aqueous catalysis"
N. Kania, B. Léger, C. Lancelot, D. Grosso, E. Monflier, A. Ponchel, *Carbon* **2011**, 49, 1290-1298.
DOI:10.1016/j.carbon.2010.11.048
- (120) "Hydrogenation of cinnamaldehyde with heterogeneous catalyst in the presence of cyclodextrins"
M. Jahjah, B. Caron, S. Menuel, E. Monflier, L. Djakovitch, C. Pinel, *ARKIVOC* **2011** (vii) 406-415.
(Arkivoc commemorative issue to honour the Argentinean Professors R.H. Rossi, J.C. Podestá, M. González Sierra and O.S. Giordano. Guest Editors: E.I. Buján, A. Chopra, R.A. Spanevello, C. Tonn)
- (121) "Using click chemistry to access mono- and ditopic β -cyclodextrin hosts substituted by chiral amino acids"
D.N. Tran, C. Blazkiewicz, S. Menuel, A. Roucoux, K. Philippot, F. Hapiot, E. Monflier, *Carbohydrate Research* **2011**, 346, 210-218. DOI:10.1016/j.carres.2010.11.024
- (122) "Scope and limitation of activated carbons in aqueous organometallic catalysis"
N. Kania, N. Gokulakrishnan, B. Léger, S. Fourmentin, E. Monflier, A. Ponchel, *J. Catal.* **2011**, 278, 208-218. DOI : 10.1016/j.jcat.2010.12.005
- (123) "Unusual Inversion Phenomenon of β -Cyclodextrin Dimers in Water"
S. Menuel, N. Azaroual, D. Landy, N. Six, F. Hapiot, E. Monflier *Chem. Eur. J.* **2011**, 17, 3949-3955.
DOI: 10.1002/chem.201003221
(This paper has been selected for the cover of this issue)
- (124) "Synthesis, Rhodium Complexes and Catalytic Applications of a New Water-Soluble Triphenylphosphane-Modified β -Cyclodextrin"
F.X. Legrand, N. Six, C. Slomianny, H. Bricout, S. Tilloy, E. Monflier, *Adv. Synth. Catal.* **2011**, 353, 1325-1334. DOI: 10.1002/adsc.201000917
- (125) "An N-heterocyclic carbene ligand based on a β -cyclodextrin-imidazolium salt: synthesis, characterization of organometallic complexes and Suzuki coupling"
F.X. Legrand, M. Ménand, M. Sollogoub, S. Tilloy, E. Monflier, *New J. Chem.* **2011**, 35, 2061-2065,
DOI: 10.1039/c1nj20200f
(Themed issue of New Journal of Chemistry dedicated to Pr. Didier Astruc on the occasion of his 65th birthday. Guest Editors: J.R. Hamon, J.Y. Saillard, J. Ruitz)

- (126) "β-Cyclodextrin for design of alumina supported cobalt catalysts efficient in Fischer-Tropsch synthesis"
A. Jean-Marie, A. Griboval-Constant, A.Y. Khodakov, E. Monflier, F. Diehl, *Chem. Commun.* **2011**, 47, 10767-10769. DOI: 10.1039/c1cc13800f
- (127) "Supramolecularly controlled surface activity of an amphiphilic ligand. Application to aqueous biphasic hydroformylation of higher olefins"
N. Six, A. Guerriero, D. Landy, M. Peruzzini, L. Gonsalvi, F. Hapiot, E. Monflier, *Catal. Sci. Technol.* **2011**, 1, 1347-1353. DOI: 10.1039/c1cy00156f
(This paper has been selected for the cover of this issue and as a Catalysis Science & Technology Hot Article. <http://blogs.rsc.org/cy/2011/07/18/hot-article-thermoregulation-by-cyclodextrins/>.)
- (128) "Alkyl sulfonated diphosphines-stabilized ruthenium nanoparticles as efficient nanocatalysts in hydrogenation reactions in biphasic media"
M. Guerrero, A. Roucoux, A. Denicourt-Nowicki, H. Bricout, E. Monflier, V. Collière, K. Fajerweg, K. Philippot, *Catal. Today* **2012**, 183, 34-41. DOI:10.1016/j.cattod.2011.09.012
(Special issue of Catalysis Today dedicated to Pr. Yuan KOU on the occasion of his 65th birthday and entitled "Nanocatalysis: synthesis, characterization, application and mechanisms". Guest Editors: Ning Yan, Paul J. Dyson)
- (129) "Cyclodextrin-Phosphane Possessing a Guest-Tunable Conformation for Aqueous Rhodium-Catalyzed Hydroformylation"
D. Ngan Tran, F.X. Legrand, S. Menuel, H. Bricout, S. Tilloy, E. Monflier, *Chem. Commun.* **2012**, 48, 753-755. DOI:10.1039/C1CC16326D.
- (130) "Biphasic hydroformylation of 1-octene catalyzed by cobalt complex of trisulfonated tris(biphenyl)phosphine"
A.A. Dabbawala, H.C. Bajaj, H. Bricout, E. Monflier, *Appl. Catal. A Gen.* **2012**, 413-414, 273-279. DOI:10.1016/j.apcata.2011.11.021
- (131) "Cyclodextrins adsorbed onto activated carbons: preparation, characterization and effect on the dispersibility of the particles in water"
N. Kania, S. Rio, E. Monflier, A. Ponchel, *J. Colloid Interface Sci.* **2012**, 371, 89-100. DOI:10.1016/j.jcis.2011.11.083
- (132) "Novel Strategy for the Bis-Butenolide Synthesis via Ring-Closing Metathesis"
M. Billamboz, J.C. Legeay, F. Hapiot, E. Monflier, C. Len, *Synthesis* **2012**, 44, 137-143. DOI: 10.1055/s-0031-1289621
- (133) "Remediation Technologies using Cyclodextrins: An Overview"
D. Landy, I. Mallard, A. Ponchel, E. Monflier, S. Fourmentin, *Environ. Chem. Lett.* **2012**, 10, 225-237. DOI 10.1007/s10311-011-0351-1
- (134) "Functionalized Cyclodextrins as First and Second Coordination Sphere Ligands for Aqueous Organometallic Catalysis"
F. Hapiot, H. Bricout, S. Tilloy, E. Monflier, *Eur. J. Inorg. Chem.* **2012**, 1571-1578. DOI: 10.1002/ejic.201101316.
- (135) "Cyclodextrins as growth controlling agents for enhancing the catalytic activity of PVP-stabilized Ru(0) nanoparticles"
R. Herbois, S. Noël, B. Léger, L. Bai, A. Roucoux, E. Monflier, A. Ponchel, *Chem. Commun.* **2012**, 48, 3451-3453. DOI: 10.1039/C2CC17355G.
- (136) "Nanoparticle-Based Catalysis using Supramolecular Hydrogels"
B. Léger, S. Menuel, A. Ponchel, F. Hapiot, E. Monflier, *Adv. Synth. Catal.* **2012**, 354, 1269-1272. DOI: 10.1002/adsc.201100888.
(This article has also been highlighted in Synfacts: Y. Uozumi, Y.M.A. Yamata, S.M. Sarkar, Synfacts 2012, 8(8), 917)

- (137) "Cyclodextrin/Amphiphilic Phosphane Mixed Systems and their Applications in Aqueous Organometallic Catalysis"
M. Ferreira, H. Bricout, N. Azaroual, D. Landy, S. Tilloy, F. Hapiot, E. Monflier, *Adv. Synth. Catal.* **2012**, 354, 1337-1346. DOI: 10.1002/adsc.201100837.
- (138) "Aqueous biphasic hydrogenation of benzene catalyzed by ruthenium complex of trisulfonated tris(biphenyl)phosphine"
A.A. Dabbawala, H.C. Bajaj, H. Bricout, E. Monflier, *Catal. Sci. Technol.* **2012**, 2, 2273-2278. DOI: 10.1039/c2cy20172k
- (139) "Aqueous biphasic hydroformylation in the presence of cyclodextrins mixtures: evidence of a positive synergistic effect"
M. Ferreira, F.X. Legrand, C. Machut, H. Bricout, S. Tilloy, E. Monflier, *Dalton Trans.* **2012**, 41, 8643-8647. DOI: 10.1039/c2dt30646h.
- (140) "Cooperativity in aqueous organometallic catalysis: Contribution of cyclodextrin-substituted polymers"
J. Potier, S. Menuel, D. Fournier, S. Fourmentin, P. Woisel, F. Hapiot, E. Monflier, *ACS Catalysis* **2012**, 2, 1417-1420. DOI : 10.1021/cs300254t.
- (141) "Rhodium-catalyzed hydroformylation of unsaturated fatty esters in aqueous media assisted by activated carbon"
J. Boulanger, A. Ponchel, H. Bricout, F. Hapiot, E. Monflier, *Eur. J. Lipid Sci. Technol.* **2012**, 114(12), 1439-1446. DOI:10.1002/ejlt.201200146.
- (142) "Impact of cyclodextrins on the behavior of amphiphilic ligands in aqueous organometallic catalysis"
H. Bricout, E. Léonard, C. Len, D. Landy, F. Hapiot, E. Monflier, *Beilstein J. Org. Chem.* **2012**, 8, 1479-1484. DOI:10.3762/bjoc.8.167
(This article is part of Thematic Series of Beilstein Journal of Organic Chemistry entitled "Superstructures with cyclodextrins: Chemistry and applications". Guest Editor H. Ritter)
- (143) "Carboxylated Polymer Functionalized by Cyclodextrins for the Stabilization of Highly Efficient Rhodium(0) Nanoparticles in Aqueous Phase Catalytic Hydrogenation"
S. Noël, B. Léger, R. Herbois, A. Ponchel, S. Tilloy, G. Wenz, E. Monflier, *Dalton Trans.* **2012**, 41(43), 13359-13363. DOI: 10.1039/c2dt31596c.
- (144) "Water-soluble diphosphadiazacyclooctanes as ligands for aqueous organometallic catalysis"
J. Boulanger, H. Bricout, S. Tilloy, A. Fihri, C. Len, F. Hapiot, E. Monflier, *Catal. Commun.* **2012**, 29, 77-81. DOI: 10.1016/j.catcom.2012.09.019
- (145) "Phosphane-based cyclodextrins as mass transfer agents and ligands for aqueous organometallic catalysis"
S. Tilloy, C. Binkowski-Machut, S. Menuel, H. Bricout, E. Monflier, *Molecules* **2012**, 17, 13062-13072. DOI:10.3390/molecules171113062
- (146) "Characterization of β -cyclodextrins and isosorbide diesters self-assemblies: towards new renewable surfactants"
F. Mouria-Bellabdelli, J. Potier, M. Bouterfas, J.P. Cavrot, A. Sayede, S. Menuel, Eric Monflier, C. Machut-Binkowski, *Colloids and Surfaces A: Physicochem. Eng. Aspects* **2012**, 415, 380-387. DOI:10.1016/j.colsurfa.2012.09.033
- (147) "Lower and Upper Rim-Modified PTA Derivatives: Coordination Chemistry and Applications in Catalytic Reactions in Water"
L. Gonsalvi, A. Guerriero, F. Hapiot, D.A. Krogstad, E. Monflier, G. Reginato, M. Peruzzini, *Pure Appl. Chem.* **2013**, 85(2), 385-396. DOI: 10.1351/PAC-CON-12-07-10
- (148) "Rhodium-Catalyzed Homogeneous and Aqueous Biphasic Hydroformylation of the Acrolein Acetal 2-Vinyl-5-Methyl-1,3-Dioxane"
J. Ternel, J.L. Dubois, J.L. Couturier, E. Monflier, J.F. Carpentier, *ChemCatChem* **2013**, 5, 1562-1569. DOI: 10.1002/cctc.201200630

- (149) "About the Use of Rhodium Nanoparticles in Hydrogenation and Hydroformylation reactions"
M. Guerrero, N.T.T. Chau, S. Noël, A. Denicourt-Nowicki, F. Hapiot, A. Roucoux, E. Monflier, K. Philippot, *Curr. Org. Chem.* **2013**, 17(4), 364-399. DOI 10.2174/1385272811317040006
(Special issue of Current Organic Chemistry entitled "Nanoscale Catalysts as Tools for Synthesis", Guest Editor: Martin Prechtl)
- (150) "Hydroxypropyl- β -cyclodextrin as a versatile additive for the formation of metastable tetragonal zirconia exhibiting high thermal stability"
L. Bai, F. Wyrwalski, C. Machut, P. Roussel, E. Monflier, A. Ponchel, *CrystEngComm* **2013**, 15, 2076 - 2083. DOI: 10.1039/c2ce26540k
- (151) "Advances in methylated β -cyclodextrins-capped ruthenium nanoparticles: synthesis strategies, characterization and application in hydrogenation reactions"
N.T.T. Chau, S. Handjani, J.P. Guegan, M. Guerrero, E. Monflier, K. Philippot, A. Denicourt-Nowicki, A. Roucoux, *ChemCatChem* **2013**, 5, 1497-1503. DOI: 10.1002/cctc.201200718
- (152) "Effects of β -cyclodextrin introduction to zirconia supported-cobalt oxide catalysts: from molecule-ion associations to complete oxidation of formaldehyde"
L. Bai, F. Wyrwalski, J-F. Lamonier, A.Y. Khodakov, E. Monflier, A. Ponchel, *Appl. Catal. B: Environ.* **2013**, 138-139, 381-390. DOI: 10.1016/j.apcatb.2013.03.015
- (153) "Diametrically opposed Carbenes on an α -Cyclodextrin: synthesis, characterization of organometallic complexes and Suzuki-Miyaura coupling in ethanol and in water"
M. Guitet, F. Marcelo, S. Adam de Beaumais, Y. Zhang, J. Jiménez-Barbero, S. Tilloy, E. Monflier, M. Ménand, M. Sollogoub, *Eur. J. Org. Chem.* **2013**, 18, 3691-3699. DOI: 10.1002/ejoc.201300190
- (154) "Thermoresponsive Hydrogels in Catalysis"
F. Hapiot, S. Menuel, E. Monflier, *ACS Catalysis* **2013**, 3, 1006-1010. DOI: 10.1021/cs400118c
- (155) "Pickering Emulsions Based on Supramolecular Hydrogels: Application to Higher Olefins Hydroformylation"
J. Potier, S. Menuel, M.H. Chambrier, L. Burylo, J.F. Blach, P. Woisel, E. Monflier, F. Hapiot, *ACS Catalysis* **2013**, 3, 1618-1621. DOI: 10.1021/cs4002282
- (156) "Cyclodextrin Dimer as Supramolecular Reaction Platform for Aqueous Organometallic Catalysis"
C. Blaszkiewicz, H. Bricout, E. Léonard, C. Len, D. Landy, C. Cézard, F. Djedaïni-Pilard, E. Monflier, S. Tilloy, *Chem. Commun.* **2013**, 49, 6989-6991. DOI:10.1039/C3CC43647K.
- (157) "Co-Assembly of Block Copolymer and Randomly-Methylated β -Cyclodextrin: From Swollen Micelles to Mesoporous Alumina with Tunable Pore Size"
R. Bleta, C. Machut, B. Léger, E. Monflier, A. Ponchel, *Macromolecules* **2013**, 46(14), 5672-5683. DOI:10.1021/ma4008303
- (158) "Efficient Ruthenium Nanocatalysts in Liquid-Liquid Biphasic Hydrogenation Catalysis: towards a Supramolecular Control via a Sulfonated Diphosphine / Cyclodextrin Smart Combination"
M. Guerrero, Y. Coppel, N. T. T. Chau, A. Roucoux, A. Denicourt-Nowicki, E. Monflier, H. Bricout, P. Lecante, K. Philippot, *ChemCatChem* **2013**, 5, 3802-3811. DOI: 10.1002/cctc.201300467
- (159) "Cyclodextrins grafted with chiral amino acids: a promising supramolecular stabilizer of nanoparticles for asymmetric hydrogenation ? "
N.T.T. Chau, J.-P. Guégan, S. Menuel, M. Guerrero, F. Hapiot, E. Monflier, K. Philippot, A. Denicourt-Nowicki, A. Roucoux, *Appl. Catal. A Gen.*, **2013**, 467, 497-503. DOI: 10.1016/j.apcata.2013.08.011
- (160) "The Role of Metals and Ligands in Organic Hydroformylation"
L. Gonsalvi, A. Guerriero, E. Monflier, F. Hapiot, M. Peruzzini, *Top. Curr. Chem.* **2013**, 342, 1-47. DOI : 10.1007/128_2013_430

- (161) "Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors"
F. Hapiot, H. Bricout, S. Tilloy, E. Monflier, *Top. Curr. Chem.* **2013**, 342, 49-78.
DOI:10.1007/128_2013_431
- (162) "Base directed palladium catalyzed Heck arylation of acrolein diethyl acetal in water"
W. Al-Maksoud, S. Menuel, M. Jahjah, E. Monflier, C. Pinel, L. Djakovitch, *Appl. Catal. A Gen.*, **2014**, 469, 250-258.
- (163) "Evidence for the existence of crosslinked crystalline domains within cyclodextrin-based supramolecular hydrogels through sol-gel replication"
R. Bleta, S. Menuel, B. Léger, A. Da Costa, E. Monflier, A. Ponchel, *RSC Adv.*, **2014**, 4, 8200-8208,
DOI: 10.1039/c3ra47765g.
- (164) "Limits of the Inversion Phenomenon in Triazolyl-Substituted β -Cyclodextrin Dimers"
J. Potier, S. Menuel, N. Azaroual, E. Monflier, F. Hapiot, *Eur. J. Org. Chem.*, **2014**, 1547-1556. DOI: 10.1002/ejoc.201301681
- (165) "Investigating the effect of randomly methylated β -cyclodextrin/bloc copolymer molar ratio on the template-directed preparation of mesoporous alumina with tailored porosity"
R. Bleta, C. Machut, B. Léger, E. Monflier, A. Ponchel, *J. Inclu. Phenom. Macrocycl. Chem.*, **2014**, 80, 323-335. DOI 10.1007/s10847-014-0405-7
- (166) "A direct novel synthesis of highly uniform dispersed ruthenium nanoparticles over P6mm ordered mesoporous carbon by host/guest complexes"
N. Gokulakrishnan, G. Peru, S. Rio, J.F. Blach, B. Leger, D. Grosso, E. Monflier, A. Ponchel, *J. Mater. Chem. A*, **2014**, 2, 6641-6648. DOI: 10.1039/C4TA00038B
- (167) "Cyclodextrin-based systems for the stabilization of metallic(0) nanoparticles and their versatile applications in catalysis"
S. Noël, B. Léger, A. Ponchel, K. Philippot, A. Denicourt-Nowicki, A. Roucoux, E. Monflier, *Catal. Today*, **2014**, 235, 20-32. DOI: 10.1016/j.cattod.2014.03.030
(Special issue of Catalysis Today entitled "Recent developments in catalyst design and activation ", Guest Editors: Catherine Louis, Xavier Carrier and Florence Epron)
- (168) "Recent breakthroughs in aqueous cyclodextrin-assisted supramolecular catalysis"
F. Hapiot, H. Bricout, S. Menuel, S. Tilloy, E. Monflier, *Catal. Sci. Technol.*, **2014**, 4, 1899-1908. DOI: 10.1039/C4CY00005F
- (169) "Multifunctional cyclodextrin-based N,N-bidentate ligands for aqueous Heck arylation"
J. Potier, S. Menuel, J. Rousseau, S. Tumkevicius, F. Hapiot, E. Monflier, *Appl. Catal. A Gen.*, **2014**, 479, 1-8. DOI: 10.1016/j.apcata.2014.04.021
- (170) "Access to Pyrrole in Water by Methylated Cyclodextrins Assistance"
S. Menuel, J. Rousseau, C. Rousseau, E. Vaičiūnaite, J. Dodonova, S. Tumkevičius, E. Monflier, *Eur. J. Org. Chem.*, **2014**, 4356-4361. DOI: 10.1002/ejoc.201402327
- (171) "Aqueous Heck arylation of acrolein derivatives: the role of cyclodextrin as additive"
W. Al-Maksoud, M. Jahjah, E. Monflier, A. Ponchel, B. Léger, C. Pinel, L. Djakovitch, *Top. Catal.*, **2014**, 57, 1550-1557. DOI: 10.1007/s11244-014-0328-y
- (172) "Effective catalytic hydrogenation of Fatty Acids Methyl Esters by aqueous rhodium(0) nanoparticles stabilized by cyclodextrin-based polymers"
S. Noël, B. Léger, A. Ponchel, F. Hapiot, E. Monflier, *Chem. Eng. Trans.*, **2014**, 37, 337-342. DOI: 10.3303/CET1437057
- (173) "Low melting mixtures based on β -cyclodextrin derivatives and N,N'-dimethylurea as solvents for sustainable catalytic processes"
F. Jerome, M. Ferreira, H. Bricout, S. Menuel, E. Monflier, S. Tilloy, *Green Chem.*, **2014**, 16, 3876-3880. DOI: 10.1039/C4GC00591K

- (174) "Temperature-dependent formation of Ru-based nanocomposites: structures and properties"
Y. Teng, L.X. Song, A. Ponchel, E. Monflier, Z.C. Shao, J. Xia, Z.K. Yang, *RSC Adv.*, **2014**, 4, 26847-26854. DOI: 10.1039/c4ra03142c
- (175) "Synergetic effect of randomly methylated β -cyclodextrin and supramolecular hydrogel in Rh-catalyzed hydroformylation of higher olefins"
J. Potier, S. Menuel, E. Monflier, F. Hapiot, *ACS Catalysis*, **2014**, 4, 2342-2346. DOI: 10.1021/cs5004883.
- (176) "Hydrogen Production by Selective Dehydrogenation of HCOOH Catalyzed by Ru-biaryl Sulfonated Phosphines in Aqueous Solution"
A. Guerriero, H. Bricout, K. Sordakis, M. Peruzzini, E. Monflier, F. Hapiot, G. Laurenczy, L. Gonsalvi, *ACS Catalysis*, **2014**, 4, 3002-3012. DOI: 10.1021/cs500655x
- (177) "Block Copolymer-Cyclodextrin Supramolecular Assemblies as Soft Templates for the Synthesis of Titania Materials with Controlled Crystallinity, Porosity and Photocatalytic Activity"
A. Lannoy, R. Bleta, C. Machut, E. Monflier, A. Ponchel, *RSC Adv.*, **2014**, 4, 40061-40070. DOI: 10.1039/C4RA05994H
- (178) "Synthesis of 1,4:3,6-dianhydrohexitols diesters from the palladium catalyzed hydroesterification reaction"
R. Pruvost, J. Boulanger, B. Léger, A. Ponchel, E. Monflier, M. Ibert, A. Mortreux, T. Chenal, M. Sauthier, *ChemSusChem.*, **2014**, 7, 3157-3163. DOI: 10.1002/cssc.201402584
- (179) "Understanding the Role of Cyclodextrins in the Self-Assembly, Crystallinity and Porosity of Titania Nanostructures"
R. Bleta, A. Lannoy, C. Machut, E. Monflier, A. Ponchel, *Langmuir*, **2014**, 30, 11812-11822. DOI: 10.1021/la502911v
- (180) "Cyclodextrin-grafted polymers functionalized with phosphanes: a new tool for aqueous organometallic catalysis"
J. Potier, S. Menuel, D. Mathiron, V. Bonnet, F. Hapiot, E. Monflier, *Beilstein J. Org. Chem.* **2014**, 10, 2642-2648. DOI:10.3762/bjoc.10.276
(This article is part of Thematic Series of Beilstein Journal of Organic Chemistry entitled "Superstructures with cyclodextrins: Chemistry and applications II". Guest Editor G. Wenz)
- (181) "Synthesis and characterization of a new photoinduced switchable β -cyclodextrin dimer"
F. Hamon, C. Blaszkiewicz, M. Buchotte, E. Banaszak-Léonard, H. Bricout, S. Tilloy, E. Monflier, C. Cézard, L. Bouteiller, C. Len, F. Djedaini-Pilard, *Beilstein J. Org. Chem.* **2014**, 10, 2874-2885. DOI:10.3762/bjoc.10.304.
(This article is part of Thematic Series of Beilstein Journal of Organic Chemistry entitled "Superstructures with cyclodextrins: Chemistry and applications II". Guest Editor G. Wenz)
- (182) "Rhodium catalyzed hydroformylation assisted by cyclodextrins in biphasic medium: can sulfonated naphthylphosphanes lead to active, selective and recyclable catalytic species?"
M. Elard, J. Denis, M. Ferreira, H. Bricout, D. Landy, S. Tilloy, E. Monflier, *Catal. Today*, **2015**, 247, 47-54. DOI : 10.1016/j.cattod.2014.06.002
- (183) "Rhodium Catalyzed Hydroformylation of 1-Decene in Low Melting Mixtures Based on Various Cyclodextrins and N,N'-Dimethylurea"
M. Ferreira, F. Jérôme, H. Bricout, S. Menuel, D. Landy, S. Fourmentin, S. Tilloy, E. Monflier, *Catal. Commun.* **2015**, 63, 62-65. DOI : 10.1016/j.catcom.2014.11.001
(Special issue of Catalysis Communication dedicated to the use of alternative media and neoteric solvent in catalysis. Guest Editors Jairton Dupont and Frédéric Lamaty)

- (184) "Homogenous catalytic hydrogenation of bicarbonate with water soluble biaryl phosphine ligands"
K. Sordakis, A. Guerriero, H. Bricout, M. Peruzzini, P. Dyson, G. Laurenczy, E. Monflier, F. Hapiot, L. Gonsalvi, *Inorg. Chim. Acta.* **2015**, 431, 132-138. DOI : 10.1016/j.ica.2014.10.034
(Special issue of *Inorganica Chimica Acta* devoted to "Advances in Transition Metals Catalysis". Guest Editors Maria Caporali and Maurizio Peruzzini)
- (185) "Cyclodextrins as first and second sphere ligands for Rh(I) complexes of lower-rim PTA derivatives for use as catalysts in aqueous phase hydrogenation"
J. Potier, A. Guerriero, S. Menuel, E. Monflier, Peruzzini, F. Hapiot, L. Gonsalvi, *Catal. Commun.* **2015**, 63, 74-78. DOI:10.1016/j.catcom.2014.11.030
(Special issue of *Catalysis Communication* dedicated to the use of alternative media and neoteric solvent in catalysis. Guest Editors Jairton Dupont and Frédéric Lamaty)
- (186) "Thermoresponsive self-assembled cyclodextrin-end-decorated PNIPAM for aqueous catalysis"
J. Potier, S. Menuel, J. Lyskawa, D.Fournier, F. Stoffelbach, E. Monflier, P. Woisel, F. Hapiot, *Chem. Commun.* **2015**, 51, 2328-2330. DOI: 10.1039/c4cc09052g
- (187) "Ruthenium-containing β -cyclodextrin polymer globules for the catalytic hydrogenation of biomass-derived furanic compounds"
R. Herbois, S. Noël, B. Léger, S. Tilloy, S. Menuel, A. Addad, B. Martel, A. Ponchel, E. Monflier, *Green Chem.* **2015**, 17, 2444-2454. DOI: 10.1039/C5GC00005J
- (188) "Catalytic decarbonylation of biosourced substrates"
J. Ternel, T. Lebarbé, E. Monflier, F. Hapiot, *ChemSusChem* **2015**, 8, 1585-1592. DOI: 10.1002/cssc.201500214
- (189) "Biphasic palladium catalyzed hydroesterification reaction in a polyol phase : Selective synthesis of derived monoesters"
R. Pruvost, J. Boulanger, B. Léger, A. Ponchel, E. Monflier, M. Ibert, A. Mortreux, M. Sauthier, *ChemSusChem* **2015**, 8, 2133-2137. DOI: 10.1002/cssc.201403397
- (190) "Recent developments in cyclodextrin-mediated aqueous biphasic hydroformylation and Tsuji-Trost reactions"
F. Hapiot, S. Menuel, H. Bricout, S. Tilloy, E. Monflier, *Appl. Organomet. Chem.* **2015**, 29, 580-587. DOI 10.1002/aoc.3340
- (191) "Supramolecular emulsifiers in biphasic catalysis: the substrate drives its own transformation"
T. Vanbésien, F. Hapiot, E. Monflier, *ACS Catal.* **2015**, 5, 4288-4292. DOI: 10.1021/acscatal.5b00861
- (192) "Selective secondary face modification of cyclodextrins by mechanosynthesis"
S. Menuel, B. Doumert, S. Saitzek, A. Ponchel, L. Delevoye, E. Monflier, F. Hapiot, *J. Org. Chem.* **2015**, 80, 6259-6266. DOI:10.1021/acs.joc.5b00697
- (193) "Palladium-catalyzed hydroesterification of olefins with isosorbide in standard and Brønsted acidic ionic liquids"
J. Boulanger, A. Seingeot, B. Léger, R. Pruvost, M. Ibert, A. Mortreux, T. Chenal, M. Sauthier, A. Ponchel, E. Monflier, *Catal. Commun.* **2015**, 69, 143-146. DOI:10.1016/j.catcom.2015.06.008
- (194) "Cyclodextrin-based PNN supramolecular assemblies: a new class of pincer-type ligands for aqueous organometallic catalysis"
S. Menuel, E. Bertaut, E. Monflier, F. Hapiot, *Dalton Trans.* **2015**, 44, 13504-13512. DOI: 10.1039/C5DT01825K
This article has been selected as a *Dalton Transactions* Hot Article
- (195) "Tetrasulfonated 1,2-bis(Diphenylphosphanyl)ethane as building block for synthesis of disulfonated alkyldiphenylphosphanes"
J. Denis, M. Ferreira, H. Bricout, C. Machut, S. Tilloy, E. Monflier, *Eur. J. Org. Chem.* **2015**, 5509-5512. DOI: 10.1002/ejoc.201500772

- (196) "Evaluation of surface properties and pore structure of carbon on the activity of supported Ru catalysts in the aqueous-phase aerobic oxidation of HMF to FDCA"
F. Kerdi, H. Ait Rass, C. Pinel, M. Besson, G. Péru, B. Léger, S. Rio, E. Monflier, A. Ponchel, *Applied Catal. A* **2015**, 506, 206-219. DOI:10.1016/j.apcata.2015.09.002
- (197) "Hydroformylation of vegetable oils: more than 50 years of technical innovation, successful research and development"
T. Vanbésien, E. Monflier, F. Hapiot, *Eur. J. Lipid Sci. Technol.* **2016**, 118, 26-35. DOI:10.1002/ejlt.201500196
- (198) "Photocatalysis of volatile organic compounds in water: towards a deeper understanding of the role of cyclodextrins in the photodegradation of toluene over titanium dioxide"
A. Lannoy, N. Kania, R. Bleta, S. Fourmentin, C. Machut-Binkowski, E. Monflier, A. Ponchel, *J Colloid. Interf. Sci.* **2016**, 461, 317-325. DOI: 10.1016/j.jcis.2015.09.022
- (199) "Cyclodextrins modified by metal-coordinating groups for aqueous organometallic catalysis: what remains to be done?"
S. Tilloy, H. Bricout, S. Menuel, F. Hapiot, E. Monflier, *Curr. Organocatal.* **2016**, 3, 24-31. DOI: 10.2174/2213337202666150618192947
- (200) "A self-emulsifying catalytic system for the aqueous biphasic hydroformylation of triglycerides"
T. Vanbésien, A. sayede, E. Monflier, F. Hapiot, *Catal. Sci. Technol.* **2016**, 6, 3064-3073. DOI: 10.1039/C5CY01758K
- (201) "Greener Paal-Knorr pyrrole synthesis by mechanical activation"
L. Akelis, J. Rousseau, R. Juskenas, J. Dodonova, C. Rousseau, S. Menuel, D. Prévost, S. Tumkevičius, E. Monflier, F. Hapiot, *Eur. J. Org. Chem.* **2016**, 31-35. DOI: 10.1002/ejoc.201501223
- (202) "Mesoporous RuO₂/TiO₂ composites prepared by cyclodextrin-assisted colloidal self-assembly: Towards efficient catalysts for the hydrogenation of methyl oleate"
R. Bleta, S. Noel, A. Addad, A. Ponchel, E. Monflier, *RSC Adv.* **2016**, 6, 14570-14579. DOI: 10.1039/C5RA27161D
- (203) "Conjugated dienyl derivatives by green bisallylic substitution: synthetic and mechanistic insights"
C. Cazorla, M. Billamboz, C. Chevrin-Villette, F. Hapiot, E. Monflier, C. Len, *ChemCatChem* **2016**, 8, 2321-2328. DOI: 10.1002/cctc.201600343
- (204) "Superstructures with cyclodextrins: Chemistry and applications"
G. Wenz, E. Monflier, *Beilstein J. Org. Chem.* **2016**, 12, 937-938. DOI:10.3762/bjoc.12.91
- (205) "Methylated β -cyclodextrins decrease cholesterol release in smooth muscle cells and aortic endothelial cells via ABCA1- and ABCG1-mediated process"
C. Coisne, D. Hallier-Vanuxeem, M.C. Boucau, J. Hachani, S. Tilloy, H. Bricout, E. Monflier, D. Wils, M. Serpelloni, X. Parissaux, L. Fenart, F. Gosselet, *Frontiers in Physiology, section Lipidology* **2016**, 7, 185. DOI: 10.3389/fphys.2016.00185
- (206) "Cleavage of Benzyl Phosphonium Salts as Efficient Bypass for Synthesis of Disulfonated Alkyldiphenylphosphanes Bearing an Oleum-Sensitive Alkyl Group"
J. Denis, M. Ferreira, H. Bricout, C. Machut, S. Tilloy, E. Monflier, *Eur. J. Org. Chem.* **2016**, 3322-3325. DOI: 10.1002/ejoc.201600555
- (207) "Cyclodextrin-cobalt (II) molecule-ion pairs as precursors to active Co₃O₄/ZrO₂ catalysts for the complete oxidation of formaldehyde: influence of the cobalt source"
L. Bai, F. Wyrwalski, M. Safariamin, R. Bleta, J.F. Lamonier, C. Przybylski, E. Monflier, A. Ponchel, *J. Catal.* **2016**, 34, 191-204. DOI: 10.1016/j.jcat.2016.07.006
- (208) "Cyclodextrins as Effective Additives in AuNPs-Catalyzed Reduction of Nitrobenzene Derivatives in a Ball-Mill"
S. Menuel, B. Léger, A. Addad, E. Monflier, F. Hapiot, *Green Chem.* **2016**, 18, 5500-5509. DOI: 10.1039/C6GC00770H

- (209) "Ring opening polymerization of ϵ -caprolactone in the presence of wet β -cyclodextrin: Effect of the operative pressure and of water molecules in the β -cyclodextrin cavity"
A. Galia, O. Scialdone, T. Spanò, M.G. Valenti, B. Grignard, P. Lecomte, E. Monflier, S. Tilloy C. Rousseau, *RSC Adv.* **2016**, 6, 90290-90299. DOI: 10.1039/C6RA20211J
- (210) "Rhodium-catalyzed one pot synthesis of hydroxymethylated triglycerides"
T. Vanbésien, E. Monflier, F. Hapiot, *Green Chem.* **2016**, 18, 6687-6694. DOI: 10.1039/C6GC02706G.
- (211) "Active hydrogenation Rh nanocatalysts protected by new self-assembled supramolecular complexes of cyclodextrins and surfactants in water"
N.T.T. Chau, S. Manuel, S. Colombel-Rouen, M. Guerrero, E. Monflier, K. Philippot, A. Denicourt-Nowicki, A. Roucoux, *RSC Adv.* **2016**, 6, 108125-108131. DOI: 10.1039/C6RA21851B
- (212) "Cyclodextrins as emerging therapeutic tools in the treatment of cholesterol-associated vascular and neurodegenerative diseases"
C. Coisne, S. Tilloy, E. Monflier, D. Wils, L. Fenart, F. Gosselet, *Molecules*, **2016**, 21, 1748. DOI: 10.3390/molecules21121748
(Special issue of "Molecules" devoted to "Cyclodextrin Chemistry". Guest Editor: Bernard Martel)
- (213) "Green and scalable palladium on carbon-catalyzed Tsuji-Trost coupling reaction using an efficient and continuous flow system"
C. Cazorla, M. Billamboz, H. Bricout, E. Monflier, C. Len, *Eur. J. Org. Chem.* **2017**, 1078-1085. DOI: 10.1002/ejoc.201601311
- (214) "Tetronics/cyclodextrin-based hydrogels as catalyst-containing media for the hydroformylation of higher olefins"
M. Chevy, T. Vanbesien, S. Manuel, E. Monflier, F Hapiot, *Catal. Sci. Technol.* **2017**, 7, 114-123. DOI: 10.1039/C6CY02070D
- (215) "Enhance the rheological and mechanical properties of clayey materials by adding starches"
G. Alhaik, M. Ferreira, V. Dubois, E. Wirquin, S. Tilloy, E. Monflier, G. Aouad, *Constr. Build. Mater.* **2017**, 139, 602-610. DOI: 10.1016/j.conbuildmat.2016.11.130
- (216) "Transition metal complexes coordinated by water soluble phosphane ligands: How cyclodextrins can alter the coordination Sphere?"
M. Ferreira, H. Bricout, S. Tilloy, E. Monflier, *Molecules* **2017**, 22, 140. DOI: 10.3390/molecules22010140
(Special issue of "Molecules" devoted to "Cyclodextrin Chemistry". Guest Editor: Bernard Martel)
- (217) "Catalysis in cyclodextrin-based unconventional reaction media: recent developments and future opportunities"
F. Hapiot, S. Manuel, M. Ferreira, B. Léger, H. Bricout, S. Tilloy, E. Monflier, *ACS Sustainable Chem. Eng.* **2017**, 5, 3598-3606. DOI: 10.1021/acssuschemeng.6b02886
(This paper has been selected for the cover of this issue)
- (218) "Cyclodextrin-directed synthesis of gold-modified TiO₂ materials and evaluation of their photocatalytic activity in the removal of a pesticide from water. Effect of porosity and particle size"
A. Lannoy, R. Bleta, C. Machut-Binkowski, A. Addad, E. Monflier, A. Ponchel, *ACS Sustainable Chem. Eng.* **2017**, 5, 3623-3630. DOI: 10.1021/acssuschemeng.6b03059
- (219) "Highly regio-selective hydroformylation of biomass derived eugenol using aqueous biphasic Rh/TPPTS/CDs as a greener and recyclable catalyst Molecular Catalysis"
S.A. Jagtapa, E. Monflier, A. Ponchel, B. M. Bhanage, *J. Mol. Catal.* **2017**, 436, 157-163. DOI: 10.1016/j.mcat.2017.04.019
- (220) "Hydroaminomethylation/hydrohydroxymethylation sequence for the one pot synthesis of aminohydroxytriglycerides"
T. Vanbesien, E. Monflier, F Hapiot, *Green Chem.* **2017**, 19, 1940-1948. DOI: 10.1039/C7GC00061H

- (221) "Unconventional approaches involving cyclodextrin-based self-assembly driven processes for the conversion of organic substrates in aqueous biphasic catalysis"
F. Hapiot, E. Monflier, *Catalyst* **2017**, 7, 173. DOI: 10.3390/catal7060173.
(Special issue of "Catalysis" devoted to "'Homogeneous Catalysis and Mechanisms in Water and Biphasic Media". Guest Editor: Luca Gonsalvi)
(This paper has been selected for the cover of this issue)
- (222) "Deep eutectic solvents: a promising medium for Volatile Organic Compounds absorption"
L. Moura, T. Moufawad, M. Ferreira, H. Bricout, S. Tilloy, E. Monflier, M.F. Costa Gomes, D. Landy, S. Fourmentin, *Environ. Chem. Lett.* **2017**, 15, 747-753. DOI: 10.1007/s10311-017-0654-y
Springer has published a press release concerning this work:
<http://www.springer.com/gp/about-springer/media/research-news/all-english-research-news/new-green-solvent-could-help-clean-our-air/14235350>
- (223) "Hydroformylation of alkenes in a planetary ball mill: from additive-controlled reactivity to supramolecular control of regioselectivity"
K. Cousin, S. Menuel, E. Monflier, F. Hapiot, *Angew. Chem. Int. Ed.* **2017**, 56, 10564-10568. DOI: 10.1002/anie.201705467
- (224) "Water-soluble Phosphane-Substituted Cyclodextrin as Effective Bifunctional Additive in Hydroformylation of Higher Olefins"
J. Leblond, J. Potier, S. Menuel, H. Bricout, C. Machut-Binkowski, D. Landy, S. Tilloy, E. Monflier, F. Hapiot, *Catal. Sci. Technol.* **2017**, 7, 3823-3830. DOI: 10.1039/C7CY01108C
- (225) "Polyoxometalate, cationic cluster and γ -cyclodextrin. From primary interactions to supramolecular hybrid materials"
M. Aly Moussawi, N. Leclerc, P. Abramov, M.N. Sokolov, S. Cordier, A. Ponchel, E. Monflier, H. Bricout, D. Landy, M. Haouas, J. Marrot, E. Cadot, *J. Am. Chem. Soc.* **2017**, 139, 12793-12803. DOI: 10.1021/jacs.7b07317
- (226) "Nonconventional Three-Component Hierarchical Host-Guest Assembly Based on Mo-Blue Ring-Shaped Giant Anion, γ -Cyclodextrin and Dawson-type Polyoxometalate"
M. Aly Moussawi, M. Haouas, S. Floquet, W.E. Shepard, P.A. Abramov, M.N. Sokolov, V.P. Fedin, S. Cordier, A. Ponchel, E. Monflier, J. Marrot, E. Cadot, *J. Am. Chem. Soc.* **2017**, 139, 14376-14379. DOI: 10.1021/jacs.7b08058
- (227) "Cyclodextrin-assisted synthesis of Ni/Al₂O₃ catalysts for direct amination of aliphatic alcohols"
A. Tomer, F. Wyrwalski, C. Przybylski, J.F. Paul, E. Monflier, M. Pera-Titus, A. Ponchel, *J. Catal.* **2017**, 356, 111-124. DOI: 10.1016/j.jcat.2017.10.006
- (228) "Acid-tolerant cyclodextrin based ruthenium nanoparticles for the hydrogenation of unsaturated compounds in water"
S. Noël, D. Bourbiaux, N. Tabary, A. Ponchel, B. Martel, E. Monflier, B. Léger, *Catal. Sci. Technol.* **2017**, 7, 5982-5992. DOI: 10.1039/C7CY01687E
- (229) "Hydroaminomethylation of oleochemicals: a comprehensive overview"
T. Vanbésien, J. Le Nôtre, E. Monflier, F. Hapiot, *Eur. J. Lipid Sci. Technol.* **2018**, 120, 1700190. DOI: 10.1002/ejlt.201700190
- (230) "Robust Mesoporous CoMo/ γ -Al₂O₃ Catalysts from Cyclodextrin-Based Supramolecular Assemblies for Hydrothermal Processing of Microalgae: Effect of the Preparation Method"
R. Bleta, B. Schiavo, N. Corsaro, P. Costa, A. Giaconia, L. Interrante, E. Monflier, G. Pipitone, A. Ponchel, S. Sau, O. Scialdone, S. Tilloy, A. Galia, *ACS Appl. Mater. Interfaces* **2018**, 10(15), 12562-12579. DOI: 10.1021/acsami.7b16185
- (231) "Unconventional media and technologies for starch esterification and etherification"
A. Gilet, C. Quettier, V. Wiatz, H. Bricout, M. Ferreira, C. Rousseau, E. Monflier, S. Tilloy, *Green Chem.* **2018**, 20, 1152-1168. DOI: 10.1039/C7GC03135A.

- (232) "Rhodium Catalyzed Selective Hydroaminomethylation of Biorenewable Eugenol Under an Aqueous Biphasic Condition"
S.A. Jagtap, S.P. Gowalkar, E. Monflier, A. Ponchel, B.M. Bhanage, *Mol. Catal.* **2018**, 452, 108-116. DOI: 10.1016/j.mcat.2018.04.005
- (233) "New water-soluble Schiff base ligands based on β -cyclodextrin for aqueous biphasic hydroformylation reaction"
M. Dauchy, M. Ferreira, J. Leblond, H. Bricout, S. Tilloy, G. S. Smith, E. Monflier, *Pure Appl. Chem.* **2018**, 90(5), 845-855. DOI: 10.1515/pac-2017-1205
- (234) "Amines as effective ligands in iridium-catalyzed decarbonylative dehydration of biosourced substrates"
J. Ternel, B. Léger, E. Monflier, F. Hapiot, *Catal. Sci. Technol.* **2018**, 8, 3948-3953. DOI: 10.1039/C8CY00621K
- (235) "Cyclodextrin-based supramolecular assemblies: a versatile toolbox for the preparation of functional porous materials"
R. Bleta, A. Ponchel, E. Monflier, *Environ. Chem. Lett.* **2018**, 16(4), 1393-1413. DOI: 10.1007/s10311-018-0768-x
- (236) "Synthesis and hydroformylation evaluation of Fréchet-type organometallic dendrons with N,O-salicylaldimine Rh(I) complexes at the focal point"
C. Williams, M. Ferreira, E. Monflier, S.F. Mapolie, G.S. Smith, *Dalton Trans* **2018**, 47, 9418-9429. DOI: 10.1039/C8DT01874J
- (237) "Pd nanoparticles immobilized on halloysite decorated with cyclodextrin modified melamine-based polymer: a promising heterogeneous catalyst for hydrogenation of nitroarenes"
S. Sadjadi, M. Akbari, E. Monflier, M.M. Heravi, B. Léger, *New. J. Chem.* **2018**, 42, 15733-15742. DOI: 10.1039/C8NJ03014F
- (238) "Cyclodextrin-assisted low-metal Ni-Pd/Al₂O₃ bimetallic catalysts for the direct amination of aliphatic alcohols"
A. Tomer, B. T. Kusema, J-F. Paul, C. Przybylski, E. Monflier, M. Pera-Titus, A. Ponchel, *J. Catal.* **2018**, 368, 172-189. DOI: 10.1016/j.jcat.2018.10.002
- (239) "Pillar[5]arenes as supramolecular hosts in aqueous biphasic rhodium-catalyzed hydroformylation of long alkyl-chain alkenes"
M. Benatmane, K. Cousin, N. Laggoune, S. Menuel, E. Monflier, P. Woisel, F. Hapiot, J. Potier, *ChemCatChem*. **2018**, 10, 5306-5313. DOI: 10.1002/cctc.201801551
- (241) "Synthesis of 2-Hydroxydodecyl Starch Ethers: Importance of the Purification Process"
A. Gilet, C. Quettier, V. Wiatz, H. Bricout, M. Ferreira, C. Rousseau, E. Monflier, S. Tilloy, *Ind. Eng. Chem. Res.* **2019**, 58 (7), 2437-2444. DOI: 10.1021/acs.iecr.8b02605
- (242) "Oleic acid based cyclodextrins for the development of new hydrosoluble amphiphilic compound"
A. Cocq, C. Rousseau, H. Bricout, E. Oliva, V. Bonnet, F. Djedäini-Pilard, E. Monflier, S. Tilloy, *Eur. J. Org. Chem.* **2019**, 1236-1241. DOI: 10.1002/ejoc.201801609
- (243) "First evidence of cyclodextrin inclusion complexes in a deep eutectic solvent"
T. Moufawad, L. Moura, M. Ferreira, H. Bricout, S. Tilloy, E. Monflier, M. Costa Gomes, D. Landy, S. Fourmentin, *ACS Sustainable Chem. Eng* **2019**, 7 (6), 6345-6351. DOI: 10.1021/acssuschemeng.9b00044
- (244) "Eggplant-derived biochar- halloysite nanocomposite as supports of Pd nanoparticles for the catalytic hydrogenation of nitroarenes in presence of cyclodextrin"
S. Sadjadi, M. Akbari, B. Léger, E. Monflier, M. Heravi, *ACS Sustainable Chem. Eng.* **2019**, 7 (7), 6720-6731. DOI: 10.1021/acssuschemeng.8b05992

- (245) "One pot synthesis of aminohydroxylated triglycerides under aqueous biphasic conditions"
K. Cousin, T. Vanbésien, E. Monflier, F. Hapiot, *Catal. Commun.* **2019**, 125, 37-42. DOI: 10.1016/j.catcom.2019.03.018
- (246) "Hydrogenation of hydrophobic substrates catalyzed by gold nanoparticles embedded in Tetronics/cyclodextrin-based hydrogels"
M. Chevy, S. Menuel, B. Léger, S. Noël, E. Monflier, F. Hapiot, *New J. Chem.* **2019**, 43, 9865-9872. DOI: 10.1039/c8nj06081a
- (247) "Rh Catalyzed Hydroformylation of Divinylglycol: an Effective Way to Access 2,7-dioxadecalin-3,8-diol"
T. Vanbésien, M.M. Wei, H. Bricout, M. Billamboz, C. Len, E. Monflier, F. Hapiot, *Eur. J. Org. Chem.* **2019**, 4372-4376. DOI: 10.1002/ejoc.201900551
- (248) "Highly Water-Soluble Amphiphilic Cyclodextrins bearing Branched and Cyclic Oleic Grafts"
A. Cocq, C. Rousseau, B. Bricout, E. Oliva, V. Bonnet, F. Djedaïni-Pilard, E. Monflier, S. Tilloy, *Eur. J. Org. Chem.* **2019**, 4863-4868. DOI: 10.1002/ejoc.201900789
- (249) "Palladated cyclodextrin and halloysite containing polymer and its carbonized form as efficient hydrogenation catalysts"
S. Sadjadi, F. Koohestani, B., Léger, E. Monflier, *Appl. Organomet. Chem.* **2019**, 33, e5213. DOI: 10.1002/aoc.5213
- (250) "Confinement of Candida Antarctica Lipase B in a Multifunctional Cyclodextrin-Derived Silicified Hydrogel and its Application as Enzymatic Nanoreactor"
C. Decarpigny, R. Bleta, A. Ponchel, E. Monflier, *ACS Appl. Bio Mater.* **2019**, 2(12), 5568-5581. DOI : 10.1021/acsabm.9b00646
- (251) "Supported ruthenium nanoparticles on ordered mesoporous carbons using a cyclodextrin-assisted hard-template approach and their applications as hydrogenation catalysts"
S. Rio, G. Peru, B. Léger, F. Kerdi, M. Besson, C. Pinel, E. Monflier, A. Ponchel, *J. Catal.* **2020**, 383, 343-356. DOI: 10.1016/j.jcat.2019.10.021
- (252) "Co₃O₄/C and Au supported Co₃O₄/C nanocomposites - peculiarities of fabrication and application towards oxygen reduction reaction"
V. Kepenienė, R. Stagniūnaitė, L. Tamašauskaitė-Tamašiūnaitė, V. Pakštas, V. Jasulaitienė, B. Léger, J. Rousseau, A. Ponchel, E. Monflier, E. Norkus, *Mater. Chem. Phys.* **2020**, 241, 122332. DOI: 10.1016/j.matchemphys.2019.122332
- (253) "Selective ruthenium-catalyzed hydroaminomethylation of unsaturated oleochemicals"
K. Cousin, F. Hapiot, E. Monflier, *Eur. J. Lipid Sci. Technol.* **2020**, 122, 1900131. DOI:10.1002/ejlt.201900131.
- (254) "Anionic Amphiphilic Cyclodextrins bearing Oleic Grafts for the Stabilization of Ruthenium Nanoparticles Efficient in Aqueous Catalytic Hydrogenation"
A. Cocq, B. Leger, S. Noel, H. Bricout, F. Pilard, S. Tilloy, E. Monflier, *ChemCatChem.* **2020**, 12, 1013-1018. DOI: 10.1002/cctc.201901837
- (255) "Palladium nanoparticles supported on nitrogen doped porous carbon material derived from cyclodextrin, glucose and melamine-based polymer: Promising catalysts for hydrogenation reactions"
S. Sadjadi, M. Malmir, B. Léger, E. Monflier, M.M. Heravi, *Pure Appl. Chem.* **2020**, 92(6), 827-837. DOI: 10.1515/pac-2019-1009
- (256) "Fréchet-type metallodendrons with N,P-iminophosphine Rh(I) complexes at the focal point: synthesis and evaluation in the hydroformylation of 1-octene"
C. Williams, M. Ferreira, S. Tilloy, E. Monflier, S.F. Mapolie, G.S. Smith, *Inorg. Chim. Acta* **2020**, 502, 119341. DOI: 10.1016/j.ica.2019.119341

- (257) "Rhodium-Catalyzed Aqueous Biphasic Olefin Hydroformylation Promoted by Amphiphilic Cyclodextrins"
A. Cocq, H. Bricout, F. Djedaini-Pilard, S. Tilloy, E. Monflier, *Catalysts* **2020**, 10, 56. DOI: 10.3390/catal10010056
- (258) "New Lipidyl-Cyclodextrins Obtained by Ring Opening of Methyl Oleate Epoxide using Ball Milling"
O. Estefania, D. Mathiron, S. Rigaud, E. Monflier, E. Sevin, H. Bricout, S. Tilloy, F. Gosselet, L. Fenart, V. Bonnet, S. Pilard, F. Djedaini-Pilard, *Biomolecules* **2020**, 10, 339. DOI:10.3390/biom10020339
- (259) "Synthesis of novel catalytic composite nanofibers containing ruthenium nanoparticles stabilized by citric acid- β -cyclodextrin polymer"
S. Fadlallah, N. Tabary, S. Noël, B. Léger, F. Cazaux, E. Monflier, B. Martel, *Nanoscale Adv.* **2020**, 2, 2087-2098. DOI: 10.1039/c9na00791a
- (260) "Continuous Hydroformylation of 1-Decene in an Aqueous Biphasic System enabled by Methylated Cyclodextrins"
K. Künnemann, L. Schurm, D. Lange, T. Seidensticker, S. Tilloy, E. Monflier, D. Vogt, J.M. Dreimann, *Green Chem.* **2020**, 22, 3809-3819. DOI: 10.1039/D0GC00820F.
- (261) "Multiscale Structure of Starches Grafted with Hydrophobic Groups: A new Analytical Strategy"
C. Volant, A. Gilet, F. Beddiaf, M. Collinet-Fressancourt, X. Falourd, N. Descamps, V. Wiatz, H. Bricout, S. Tilloy, E. Monflier, C. Quettier, A. Mazzah, A. Rolland-Sabate, *Molecules* **2020**, 25, 2827. DOI:10.3390/molecules25122827
(Special issue "Natural Polymers and Biopolymers II". Guest Editor: Dr. Sylvain Caillol)
https://www.mdpi.com/journal/molecules/special_issues/biopolymer_II
- (262) "Fast microwave synthesis of gold doped TiO₂ assisted by modified cyclodextrins for photocatalytic degradation of dye and hydrogen production"
C. Machut, N. Kania, B. Léger, F. Wyrwalski, S. Noël, A. Addad, E. Monflier, A. Ponchel, *Catalysts* **2020**, 10, 801. DOI:10.3390/catal10070801
(Special Issue "Materials and Processes for Photocatalytic and (Photo)Electrocatalytic Removal of Bio-Refractory Pollutants and Emerging Contaminants from Waters". Guest Editor: Prof. Dr. Annalisa Vacca)
[https://www.mdpi.com/journal/catalysts/special_issues/Electrocatalytic_\(Photo\)Electrocatalytic_Removal_Pollutants](https://www.mdpi.com/journal/catalysts/special_issues/Electrocatalytic_(Photo)Electrocatalytic_Removal_Pollutants)
- (263) "Particle size effect in the mechanically assisted synthesis of β -cyclodextrin mesitylene sulfonate"
S. Menuel, S. Saitzek, E. Monflier, F. Hapiot, *Beilstein J. Org. Chem.* **2020**, 16, 2598-2606. DOI: 10.3762/bjoc.16.211
- (264) "One-pot two-steps synthesis of hydroxymethylated unsaturated VHOSO and its application to the synthesis of biobased polyurethanes"
K. Cousin, B. Quienne, J. Pinaud, S. Caillol, E. Monflier, F. Hapiot, *Eur. J. Lipid Sci. Technol.* **2020**, 122, 2000158. DOI : 10.1002/ejlt.202000158
- (265) "Catalytic reduction of 4-nitrophenol with gold nanoparticles stabilized by large-ring cyclodextrins"
S. Noel, H. Bricout, A. Addad, C. Sonnendecker, W. Zimmermann, E. Monflier, B. Léger, *New J. Chem.* **2020**, 44, 21007-21011. DOI: 10.1039/D0NJ03687K
- (266) "Epimerization of Isosorbide Catalyzed by Homogeneous Ruthenium-Phosphine Complexes: a New Step towards an Industrial Process"
T. Vanbésien, T. Delaunay, V. Wiatz, S. Bigot, H. Bricout, S. Tilloy, E. Monflier, *Inorg. Chim. Acta* **2021**, 515, 120094. DOI: 10.1016/j.ica.2020.120094
- (267) "First steps to rationalize host-guest interaction between α -, β - and γ -cyclodextrin and divalent first row transition and post-transition metals (subgroup VIIIB, VIIIB and IIB)"
H. Dossmann, L. Fontaine, T. Weisgerber, V. Bonnet, E. Monflier, A. Ponchel, C. Przybylski, *Inorg. Chem.* **2021**, 60, 930-943. DOI: 10.1021/acs.inorgchem.0c03052.

- (268) "Aqueous biphasic hydroaminomethylation enabled by methylated cyclodextrins: Sensitivity analysis for transfer into a continuous process"
K. Künnemann, D. Weber, C. Becquet, S. Tilloy, E. Monflier, T. Seidensticker, D. Vogt, *ACS Sustain. Chem. Eng.* **2021**, 9, 273-283. DOI: 10.1021/acssuschemeng.0c07125
- (269) "Asymmetric hydrogenation of ethyl pyruvate over aqueous dispersed Pt nanoparticles stabilized by a cinchonidine-functionalized β -cyclodextrin"
S. Noël, E. Caronia, H. Bricout, I. Chena Tichá, A. Ponchel, S. Tilloy, A. Galia, E. Monflier, J. Jindřich, B. Léger, *Catal. Commun.* **2021**, 150, 106272. DOI: 10.1016/j.catcom.2020.106272
- (270) "Oxidation of 2,5-Diformylfuran to 2,5-Furandicarboxylic Acid Catalyzed by Candida antarctica Lipase B Immobilized in a Cyclodextrin-Templated Mesoporous Silica. The Critical Role of Pore Characteristics on the Catalytic Performance"
C. Decarpigny, R. Bleta, A. Ponchel, E. Monflier, *Colloids Surf. B* **2021**, 200, 111606. DOI: 10.1016/j.colsurfb.2021.111606
- (271) "Robust Ruthenium Catalysts Supported on Mesoporous Cyclodextrin-Templated TiO₂-SiO₂ Mixed Oxides for the Hydrogenation of Levulinic Acid to γ -Valerolactone"
C. Decarpigny, S. Noël, A. Addad, A. Ponchel, E. Monflier, R. Bleta, *Int. J. Mol. Sci.* **2021**, 22, 1721. DOI: 10.3390/ijms22041721
- (272) "Cyclodextrins: a New and Effective Class of Co-Modulators for Aqueous Zirconium-MOF Syntheses"
G. Hoyez, J. Rousseau, C. Rousseau, S. Saitzek, J. King, P. Ágota Szilágyi, C. Volkringer, T. Loiseau, F. Hapiot, E. Monflier, A. Ponchel, *CrystEngComm*. **2021**, 23, 2764-2772. DOI: 10.1039/D1CE00128K
- (273) "Cyclodextrin-assisted catalytic hydrogenation of hydrophobic substrates with halloysite immobilized ruthenium NPs dispersed in aqueous phase"
S. Noel, A. Madureira, B. Léger, A. Ponchel, S. Sadjadi, E. Monflier, *J. Indian Chem. Soc.* **2021**, 98, 100034. DOI: 10.1016/j.jics.2021.100034
- (274) "Hydrohydroxymethylation of Ethyl Ricinoleate and Castor Oil"
C. Becquet, F. Berche, H. Bricout, E. Monflier, S. Tilloy, *ACS Sustain. Chem. Eng.* **2021**, 9, 9444-9454. DOI: 10.1021/acssuschemeng.1c02924
- (275) "Cyclodextrins as multitask agents for metal nano-heterogeneous catalysis: a review"
S. Noël, B. Léger, A. Ponchel, S. Sadjadi, E. Monflier, *Environ. Chem. Lett.* **2021**, 19, 4327-4348. DOI: 10.1007/s10311-021-01298-5
- (276) "Ultrasound-assisted synthesis of NiO nanoparticles and their catalytic application for the synthesis of trisubstituted imidazoles under solvent free conditions"
A.L. Gajengi, S. Chaurasia, E. Monflier, A. Ponchel, J. Ternel, B.M. Bhanage, *Catal. Commun.* **2021**, 161, 106366. DOI : 10.1016/j.catcom.2021.106366
- (277) "Reductive Hydroformylation of Isosorbide Diallyl Ether"
J. Ternel, A. Lopes, M. Sauthier, C. Buffe, V. Wiatz, H. Bricout, S. Tilloy, E. Monflier, *Molecules* **2021**, 26, 7322; DOI: 10.3390/molecules26237322
- (278) "Aqueous zirconium-MOF syntheses assisted by α -cyclodextrin: towards deeper understanding of the beneficial role of cyclodextrin"
G. Hoyez, C. Rousseau, J. Rousseau, S. Saitzek, A. Ponchel, E. Monflier, *Eur. J. Inorg. Chem.* **2022**, 2, e202100896. DOI: 10.1002/ejic.202100896
- (279) "Effect of Functional Group on the Catalytic Activity of Lipase B from Candida antarctica Immobilized in a Silica-Reinforced 3 Pluronic F127/ α -Cyclodextrin Hydrogel"
C. Decarpigny, A. Ponchel, E. Monflier, R. Bleta *Gels* **2022**, 8, 3. DOI: 10.3390/gels8010003
- (280) "Palladated chitosan-halloysite bead as an efficient catalyst for hydrogenation of lubricants"
M. Allesgha, S. Sadjadi, H. Arabi, N. Bahri-Laleh, E. Monflier, *Mater. Chem. Phys.* **2022**, 278, 125506. DOI: 10.1016/j.matchemphys.2021.125506.

- (281) "Pd on ligand decorated chitosan as an efficient catalyst for hydrofinishing of polyalphaolefin: combination of experimental and computational study"
M. Alleshagh, S. Sadjadi, H. Arabi, N. Bahri-Laleh, E. Monflier, *J. Phys. Chem. Solids* **2022**, 164, 110611. DOI: 10.1016/j.jpcs.2022.110611.
- (282) "Unnatural cyclodextrins can be accessed from enzyme-mediated dynamic combinatorial libraries"
D. Larsen, M. Ferreira, S. Tilloy, E. Monflier, S.R. Beeren, *Chem. Commun.* **2022**, 58, 2287-2290. DOI: 10.1039/D1CC06452E
This article is part of the themed collection: Chemical Communications HOT Articles 2022
- (283) "Interesterification of triglycerides with methyl acetate for biodiesel production using a cyclodextrin-derived SnO@ γ -Al₂O₃ composite as heterogeneous catalyst"
C. Prestigiacomo, M. Biondo, A. Galia, E. Monflier, A. Ponchel, D. Prevost, O. Scialdone, S. Tilloy, R. Bleta, *Fuel* **2022**, 321, 124026. DOI: 10.1016/j.fuel.2022.124026