Anthony KERMAGORET

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Research Topics

- Advanced polymerisation and macromolecular engineering
- Host-guest supramolecular chemistry
- Coordination chemistry, organometallic and catalysis

Current research projects

- ANR Project *Benz*, scientific investigator ICR-CROPS, *Synthesis of conjugating polymers via nitroxide mediated polymerization.*
- PhD contract « Contrat doctoral » 2018-2021, *molecular macromachines*

Scientific Career

Since 2015	**Associate professor at Aix-Marseille University (France)** ICR-CROPS, UMR-CNRS 7273, Faculté St-Jérôme, AMU *CNU-33 Material Chemistry*
2011-2015	**Postdoctoral researcher,** CERM (University of Liège, Belgium) Topics *: Polymer synthesis via Organometallic controlled radical polymerization.*
2009-2011	**CNRS postdoctoral researcher,** LCOMS (CPE Lyon, France) *Topics : Silica supported catalysts for ethylene oligomerization*
2008-2009	**Postdoctoral researcher,** CAT Catalytic Center (ITMC, RWTH-Aachen University, Germany) Topics *: Catalytic CO2/Epoxide copolymerization*
2008-2007	**temporarily attached to education and research (ATER)**, Paris XI University (France) and research at BioCIS Topics: *antitumoral rhenium complexes with selenium chelates.*

Education

2007-2003 **PhD** at laboratoire de chimie de coordination (Strasbourg University, France) under the supervision of Dr P. Braunstein. *Topics : nickel and iron complexes for the catalytic ethylene oligomerization*

2003-2001 **Master in fine chemsitry,** Brest University UBO (France).

2001-2000 **Licence Chimie,** Rennes I University (France).

2000-1998 **DUT Chimie**, Rennes I University (France).

Selected Publications (39 publications, *h* index 19)

(1). **Macromolecules**, 2019, 52(22), 9053. *Functional Polyethylene (PE) and PE-Based Block Copolymers by Organometallic-Mediated Radical Polymerization*

(2). **Chem. Eur. J.**, 2019, 25(54), 12552.
A Cucurbit[8]uril 2:2 Complex with a Negative pKa Shift

(3). **Chem. Commun.**, 2019, 55(92), 13824.
A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals

(4). **Org. Lett.**, 2018, 20(11), 3187.
Metal Actuated Ring Translocation Switches in Water

(5). **Tetrahedron**, 2016, *72(48)*, 7672. *Combined nitroxide mediated radical polymerization techniques for block copolymer synthesis.*

(6). **ChemCatChem**, 2016, 8(9), 1617. *Photocatalysts in Polymerization Reactions*

(7). **Chem. Commun.**, 2015, *51(76)*, 14334. *Halomethyl-cobalt(bis-acetylacetonate) for the controlled synthesis of functional polymers.*

(8). ***Nature Chemistry***, 2014*, 6,* 179. *Precision design of ethylene/polar monomer-based copolymers by organometallic-mediated radical polymerization.*

(9). ***J. Am. Chem. Soc*.** 2012, *134*, 6767.
Nature and structure of aluminum surface sites grafted on silica from a combination of high field aluminum-27 solid-state NMR spectroscopy and first principle calculations.

(10). ***Angew. Chem. Int. Ed.***, 2007, *46*, 6438.
Unprecedented Tetranuclear Complexes with 20-Electron NiII Centers: The Role of Pressure and Temperature on Their Solid-State and Solution Fragmentation.

Patents

PCT Int. Appl. (2019), WO 2019121409 A1 20190627
Block copolymerization of ethylene by cobalt-mediated radical polymerization

PCT Int. Appl. (2013), WO 2013087582 A2; Eur. Pat. Appl. (2013), EP 2604641 A1
method for producing polyetherester carbonate polyols

PCT Int. Appl. (2012), WO 2012059550; Ger. Offen. (2012), DE 102010043409 A1
Method for producing polycarbonate polyols by living polymerization of cyclic carbonates