

高分子科学系列讲座

高分子物理与化学国家重点实验室 中国科学院长春应用化学研究所

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报 告 人	Yann Sarazin	职 称	Professor
从事专业			
建 议 人	崔冬梅 研究员	主 持 人	崔冬梅 研究员
报 告 时 间	2013.11.28 下午 14:00	报 告 地 点	主楼四楼学术报告厅(410 室)
单 位	University of Rennes, France		
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报告人背景	<p>Professional experience 2008- CNRS Research Fellow, <i>Institut des Sciences Chimiques de Rennes</i> UMR CNRS 6226 – University of Rennes 2007-2008 Post-doctorate (Prof. J.-F. Carpentier), <i>Institut des Sciences Chimiques de Rennes</i> UMR CNRS 6226 – University of Rennes 2004-2007 Post-doctorate (Prof. M. Bochmann), University of East Anglia (U.-K.).</p> <p>Education and titles 2012 (Oct.) Research Habilitation, University of Rennes 2000□2004 Ph. D. in coordination and macromolecular chemistries Supervisor Prof. M. Bochmann, <i>University of East Anglia</i> (U.-K.) 1999-2000 M. Sc. in organic and macromolecular chemistries, University of Lille, France</p> <p>Research interests ✧ Coordination chemistry of oxophilic metals (groups 2, 3 and 12–14) ✧ Homogeneous polymerisation catalysis (olefins and bio-resourced monomers) ✧ Homogeneous catalysis for fine chemistry (hydroelementation, dehydrocoupling) ✧ Reaction mechanisms</p> <p>Supervision and responsibilities ✧ Supervision of 4 Ph. D. students (Total Petrochemicals grants, 2008□2011 and 2011□2014; ANR Blanc SIMI 7 grant, <i>GreenLake</i>, 2012□2015; French Ministry for Research, 2013□2016), 4 post-doc associates (Total Petrochemicals grants, 2009 and 2010□2011; FP7-People-IIF Marie Curie grant, 2010□2013; internal grant, 2012□2014) and 4 M. Sc. students (2010, 2012, 2013 and 2014) ✧ Member of the "Solution NMR" workgroup at the University of Rennes ✧ Member of the "X-ray Diffraction" workgroup at the University of Rennes ✧ Main organiser of the <i>Journées 2014 de Chimie de Coordination de la Société Chimique de France</i></p> <p>Scientific publications ✧ 42 publications (<i>h</i> index = 14; 839 citations) in international peer-reviewed</p>		



	<p>journals, including: 2 JACS, 1 Angew. Chem. Int. Ed., 8 Chem. Eur. J, 7 Dalton Trans., 4 Organometallics...</p> <ul style="list-style-type: none"> ✧ 6 families of PCT Int. Appl. WO patents. ✧ 3 book chapters <p>Grants and Awards</p> <ul style="list-style-type: none"> ✧ Co-recipient of an ERC Marie Curie FP7-PEOPLE-2010-IIF grant: <i>ChemCatSusDe</i>, 2011–2013 ✧ Co-recipient of a French ANR Blanc SIMI 7 grant: <i>GreenLake</i>, 2011–2015 ✧ Recipient of a University of Rennes grant: <i>Emerging Scientific Challenges</i>, 2012 ✧ Recipient of a CNRS-NSFC grant for a collaborative project with China (Pr. Dongmei Cui), 2013 ✧ <i>Inorganica Chimica Acta</i> award for the Best Contribution by a Young Researcher, 2012
<p style="text-align: center;">报告题目</p>	<p style="text-align: center;">Complexes of large alkaline-earths and related divalent metals: Synthetic aspects, catalysis and mechanistic investigations</p>
<p style="text-align: center;">内 容 摘 要</p>	<p>Our group is involved in the development of original complexes of the large alkaline-earth metals (calcium, strontium and barium) and other related divalent elements (tin(II), lanthanide(II), zinc) for the homogenous catalysis of ring-opening polymerisation and hydroelementation reactions. New synthetic strategies for the stabilisation of highly reactive complexes will be presented today. Their performance as catalysts in the polymerisation of cyclic esters will then be detailed, with an emphasis on the understanding of the associated mechanisms and the introduction of new kinetic models for ROP reactions. The behaviour of these complexes and the mechanisms at work in the catalysed hydroelementation of alkenes will also be discussed.</p> <p>a) Y. Sarazin, B. Liu, T. Roisnel, L. Maron, J.-F. Carpentier, <i>J. Am. Chem. Soc.</i> 2011, <i>133</i>, 9069–9087</p> <p>b) B. Liu, T. Roisnel, J.-P. Guégan, J.-F. Carpentier, Y. Sarazin, <i>Chem. Eur. J.</i> 2012, <i>18</i>, 6289–6301</p> <p>c) B. Liu, T. Roisnel, J.-F. Carpentier, Y. Sarazin, <i>Angew. Chem. Int. Ed.</i> 2012, <i>51</i>, 4943–4946</p> <p>d) B. Liu, T. Roisnel, L. Maron, J.-F. Carpentier, Y. Sarazin, <i>Chem. Eur. J.</i> 2013, <i>19</i>, 3986–3994</p> <p>e) B. Liu, T. Roisnel, J.-F. Carpentier, Y. Sarazin, <i>Chem. Eur. J.</i> 2013, <i>19</i>, 13445–13462</p> <p>f) L. Wang, C. E. Kefalidis, S. Sinbandhit, V. Dorcet, J.-F. Carpentier, L. Maron, Y. Sarazin, <i>Chem. Eur. J.</i> 2013, <i>19</i>, 13463–13478.</p>