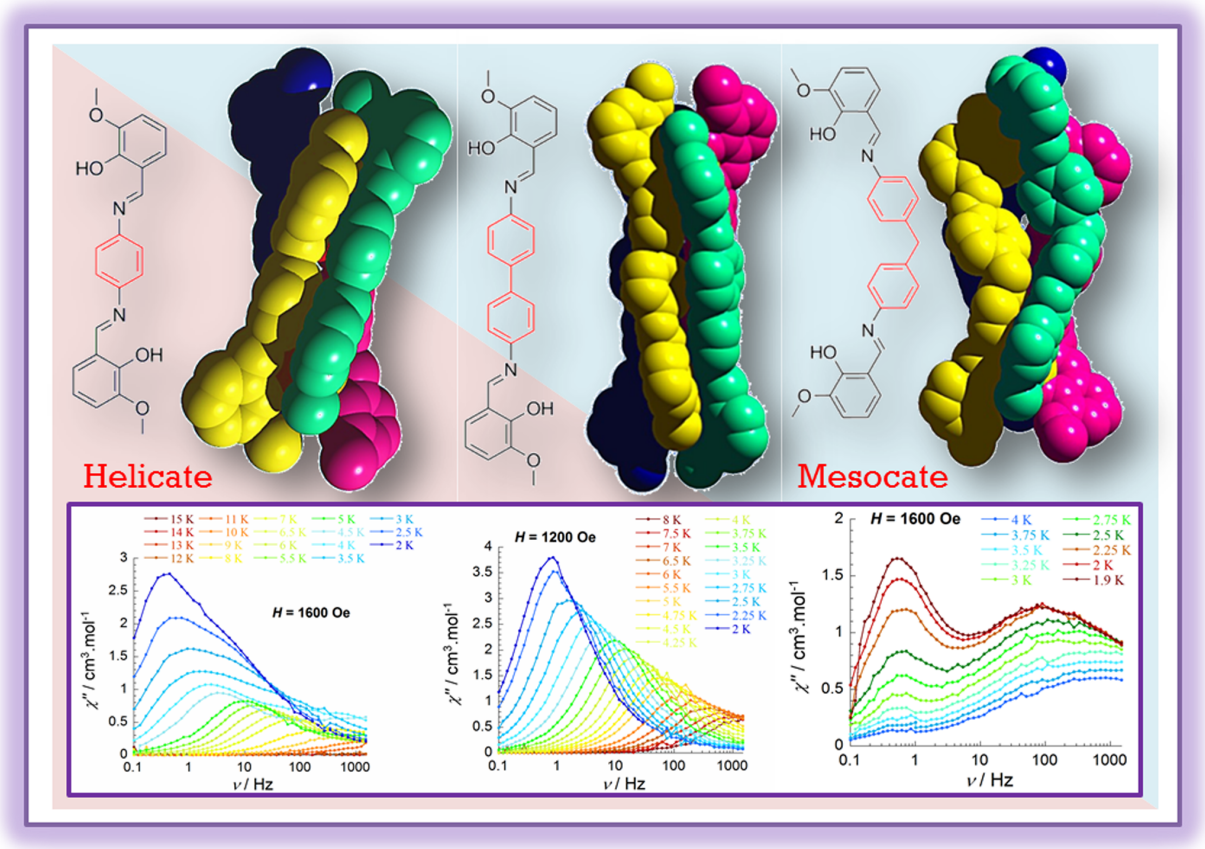

Fatemah Habib, Murugesu group, U. Ottawa.

Systematic modifications of the ligand spacer lead to helical and meso-helical supramolecular architectures in three {Dy2} single-molecule magnets with unique magnetic properties under applied field.

Chem. Sci. **2012,** DOI: 10.1039/C2SC01029A.

May 2012

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June 2012

July 2012

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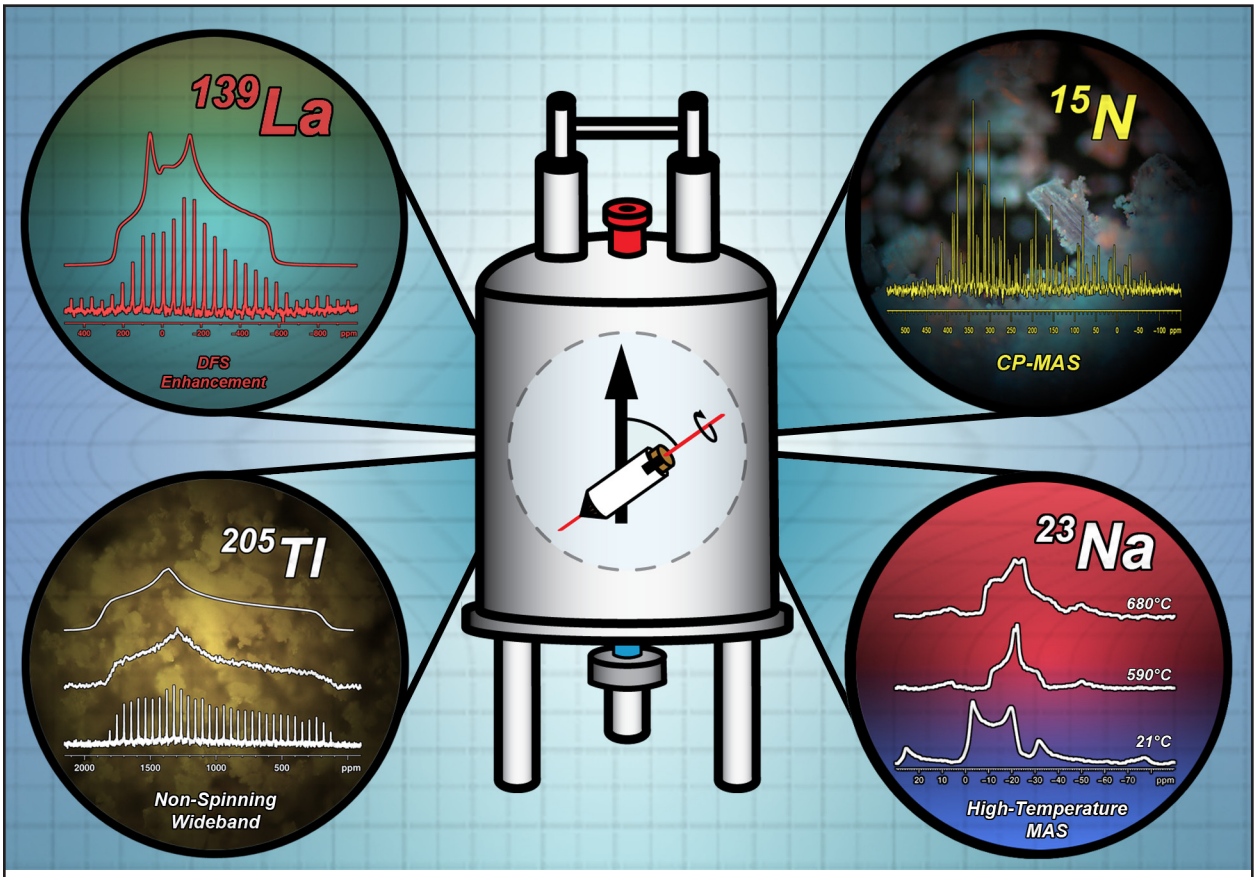

John E. C. Wren, Kroeker group, U. Manitoba.

Solid-state nuclear magnetic resonance spectroscopy is a versatile method for probing many different types of inorganic materials using techniques including multi-pulse enhancement sequences, cross-polarization, non-spinning wideband acquisition and high-temperature magic-angle spinning.

June 2012

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July 2012

August 2012

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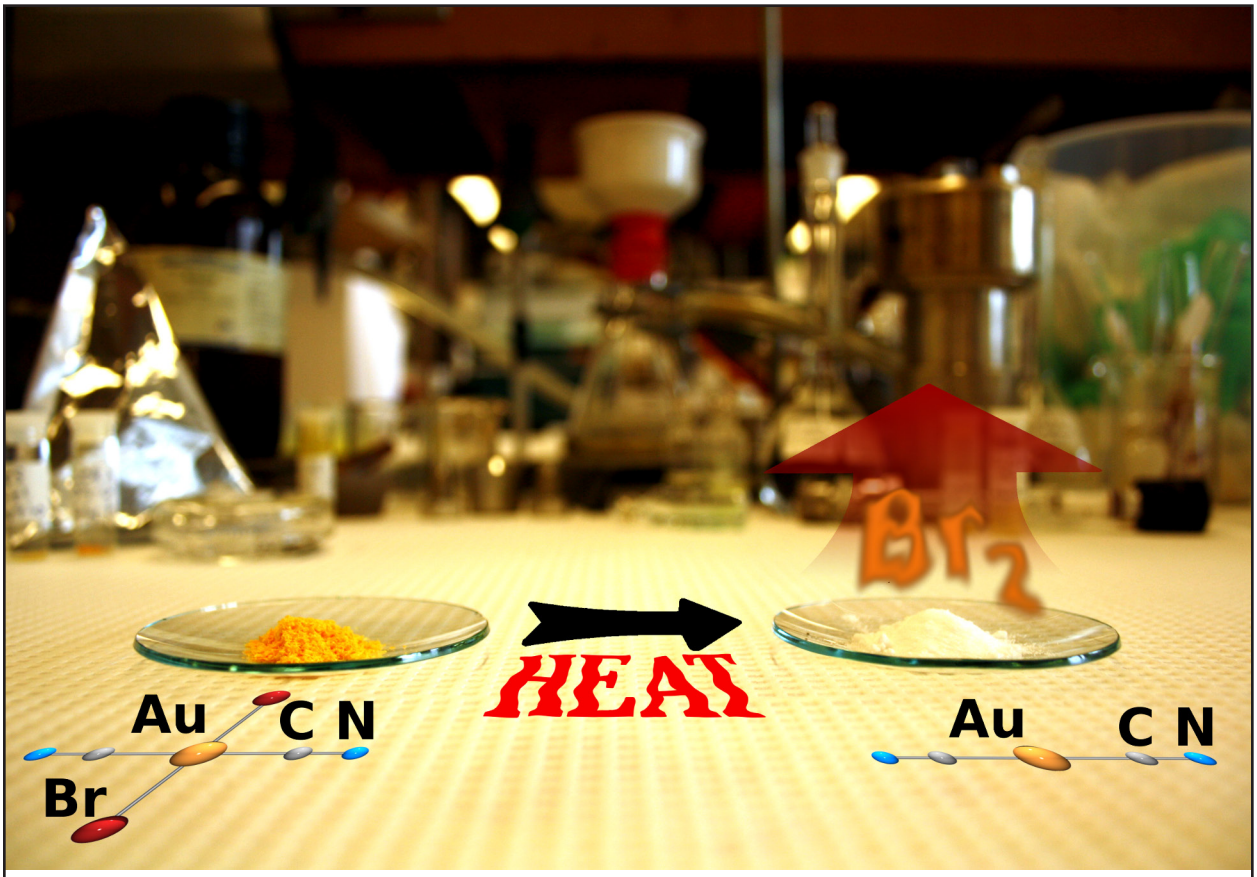

Jeffrey S. Ovens, Leznoff group, Simon Fraser U.

The rarely-observed (thermally triggered) reductive elimination of bromine, from $[Au^{III}Br_2(CN)_2]^-$ to form $[AuI(CN)_2]^-$, can be harnessed to convert Au(III)-based to Au(I)-based coordination polymers.

Ovens, J. S.; Leznoff, D. B. *Dalton Trans.* **2011,** *40*, 4140.

July 2012

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August 2012

September 2012

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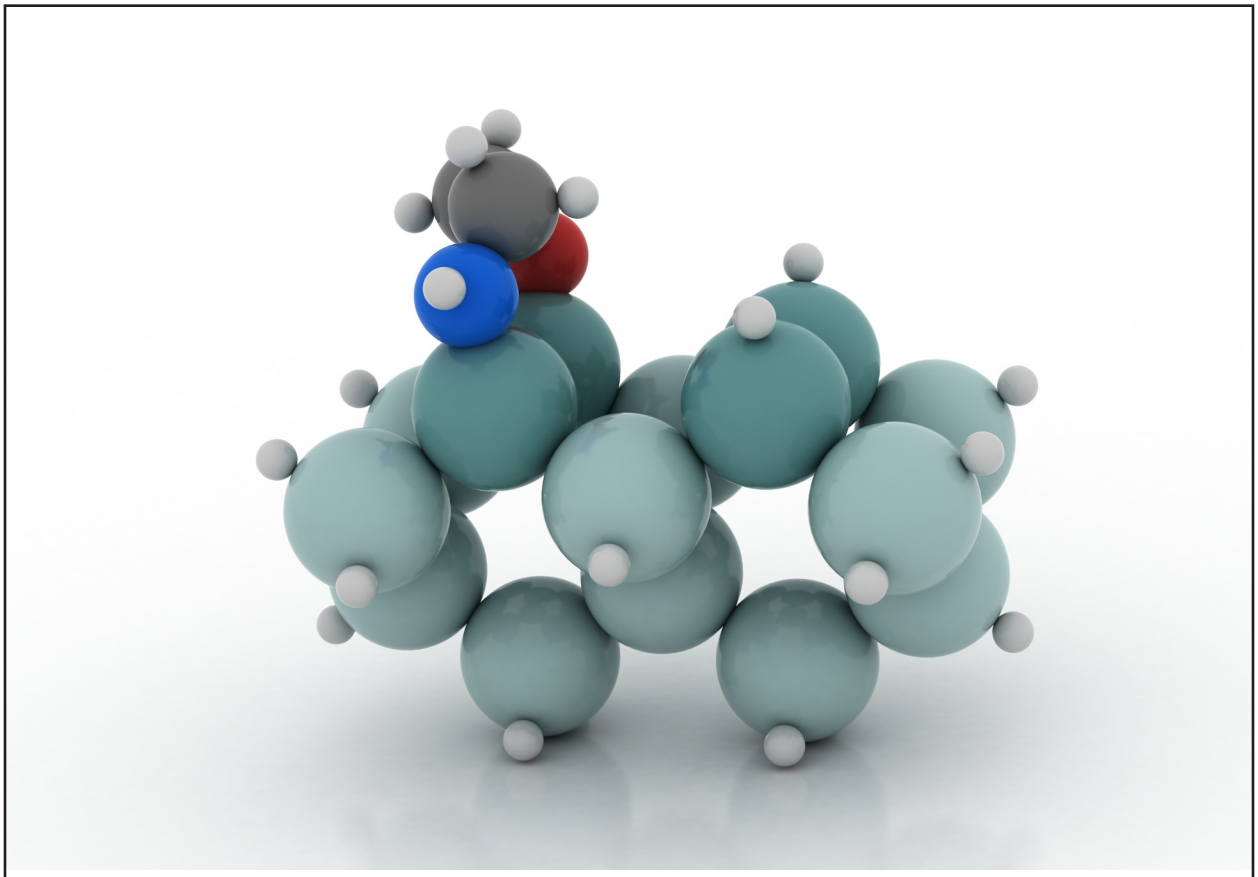

Abdullah Radi, UBC, Leung group, U. Waterloo.

DFT/B3LYP Optimized geometry of the inter-dimer [O, N] bidentate adsorbate-substrate configuration for the staggered conformer of ethanolamine on a model Si(100)2×1 surface.

Radi, A.; Leung, K. T. *Mater. Express.* **2011,** *1,* 2520.

August 2012

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September 2012

October 2012

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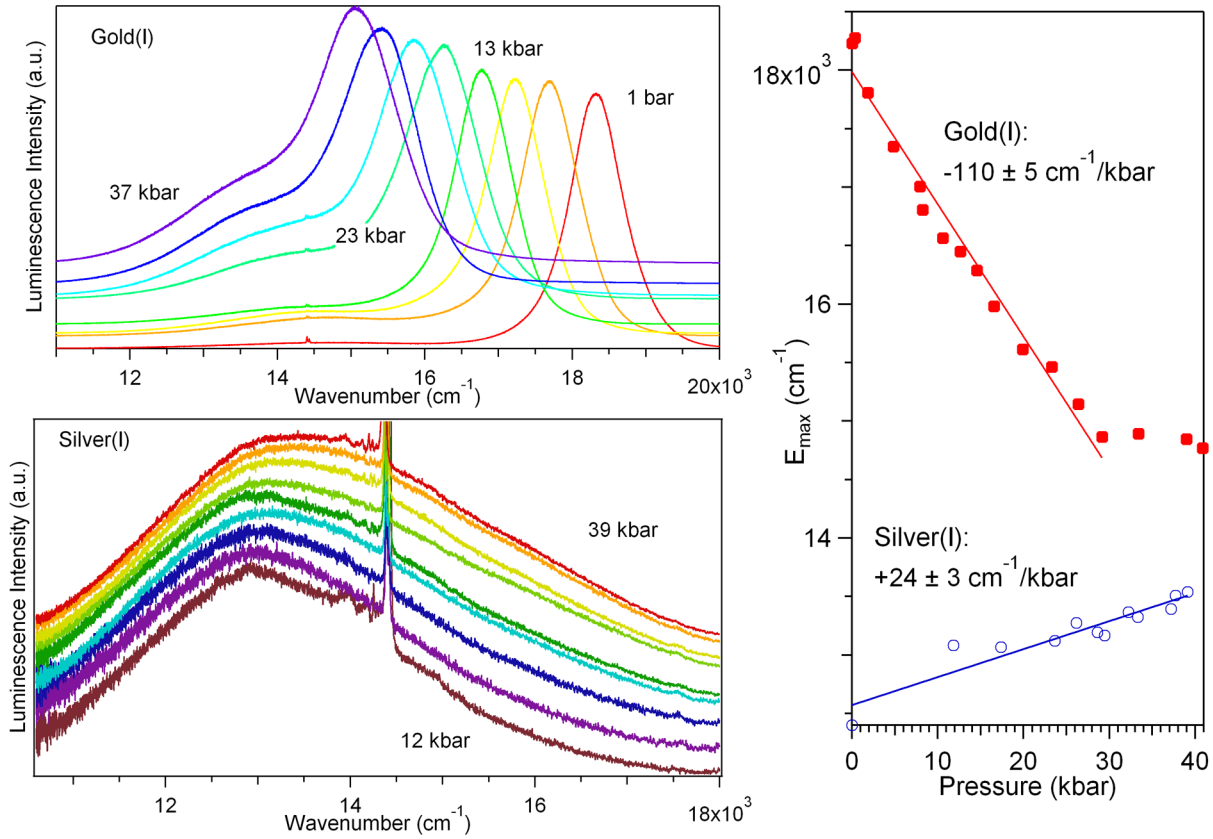

M. Alex Radtke, Reber group, U. Montreal.

Variable-pressure luminescence spectra of gold(I) diethyldithiocarbamate and silver(I) diethyldithiocarbamate displaying differences in metal-metal bonds.

Baril-Robert, F.; Radtke, M. A.; Reber, C. *J. Phys. Chem. C.* **2012,** *116,* 2192.

September 2012

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November 2012

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October 2012

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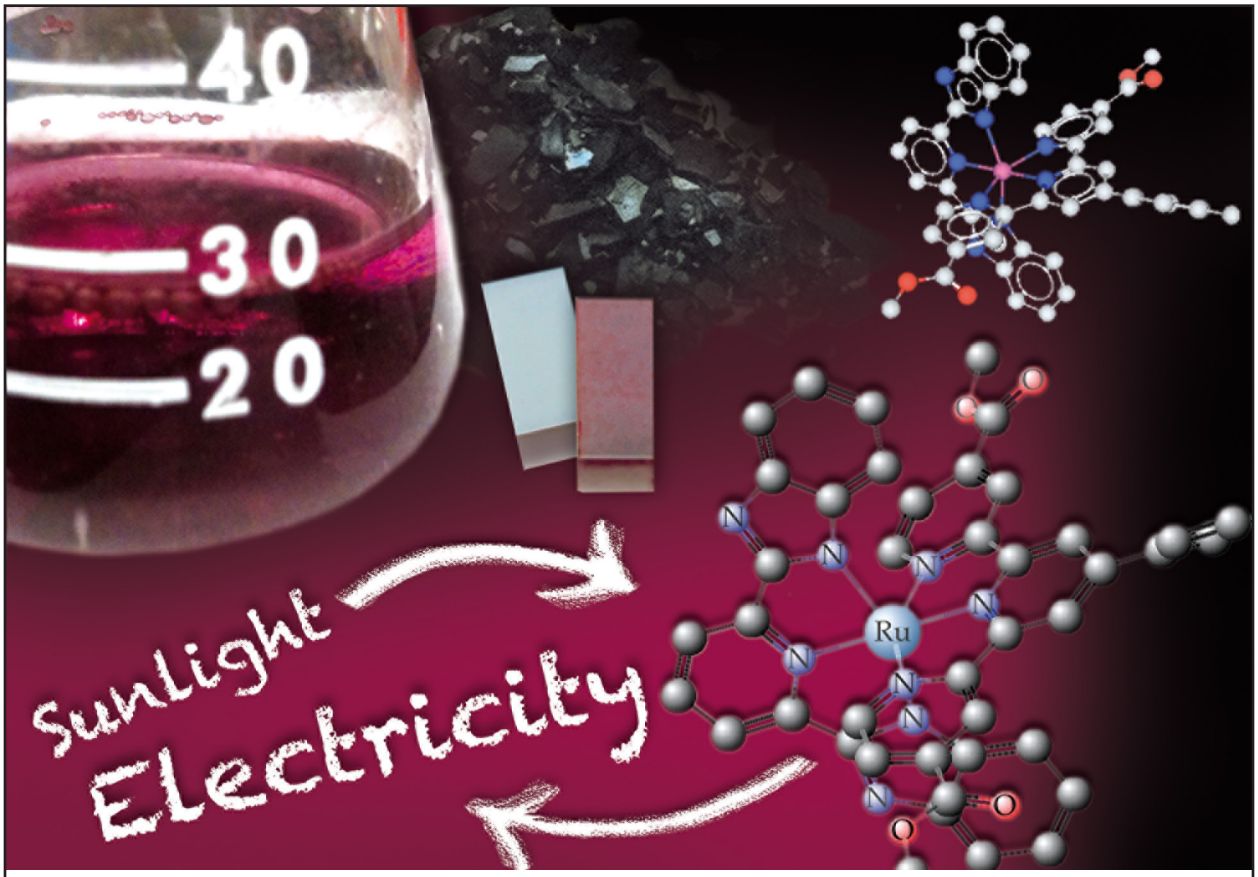

Baharak Bakhshaei, Potvin group, York U.

Ru dye for Dye-Sensitized Solar Cells: The ball-and-stick structure, the solid, a solution and the dye coated and uncoated TiO_2 plates are shown.

October 2012

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November 2012

December 2012

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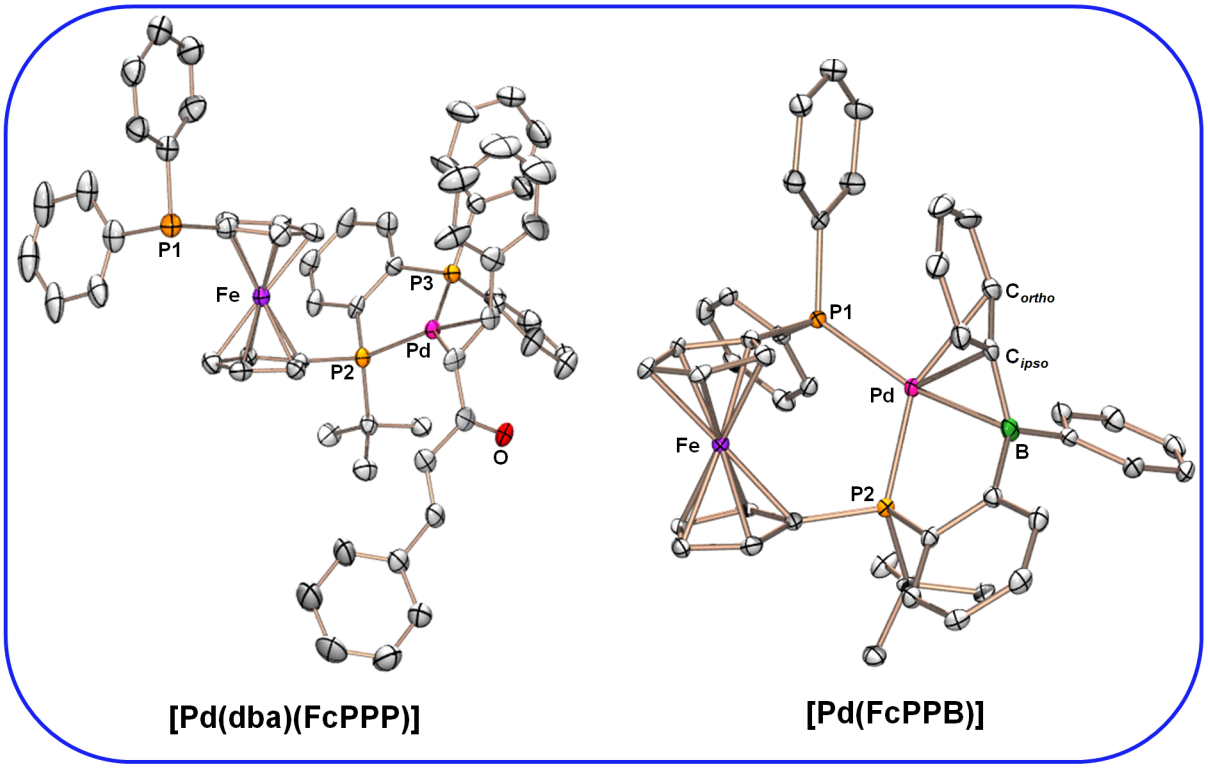

Bradley E. Cowie, Emslie group, McMaster U.

X-ray crystal structures of [Pd(dba)(FcPPP)] (dba = dibenzylideneacetone) and [Pd(FcPPB)] obtained via reaction of $Pd_2(dba)_3$ with the new ferrocene based tris-phospine ligand, FcPPP, and the new borane-containing ambiphilic ligand, FcPPB.

November 2012

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December 2012

January 2013

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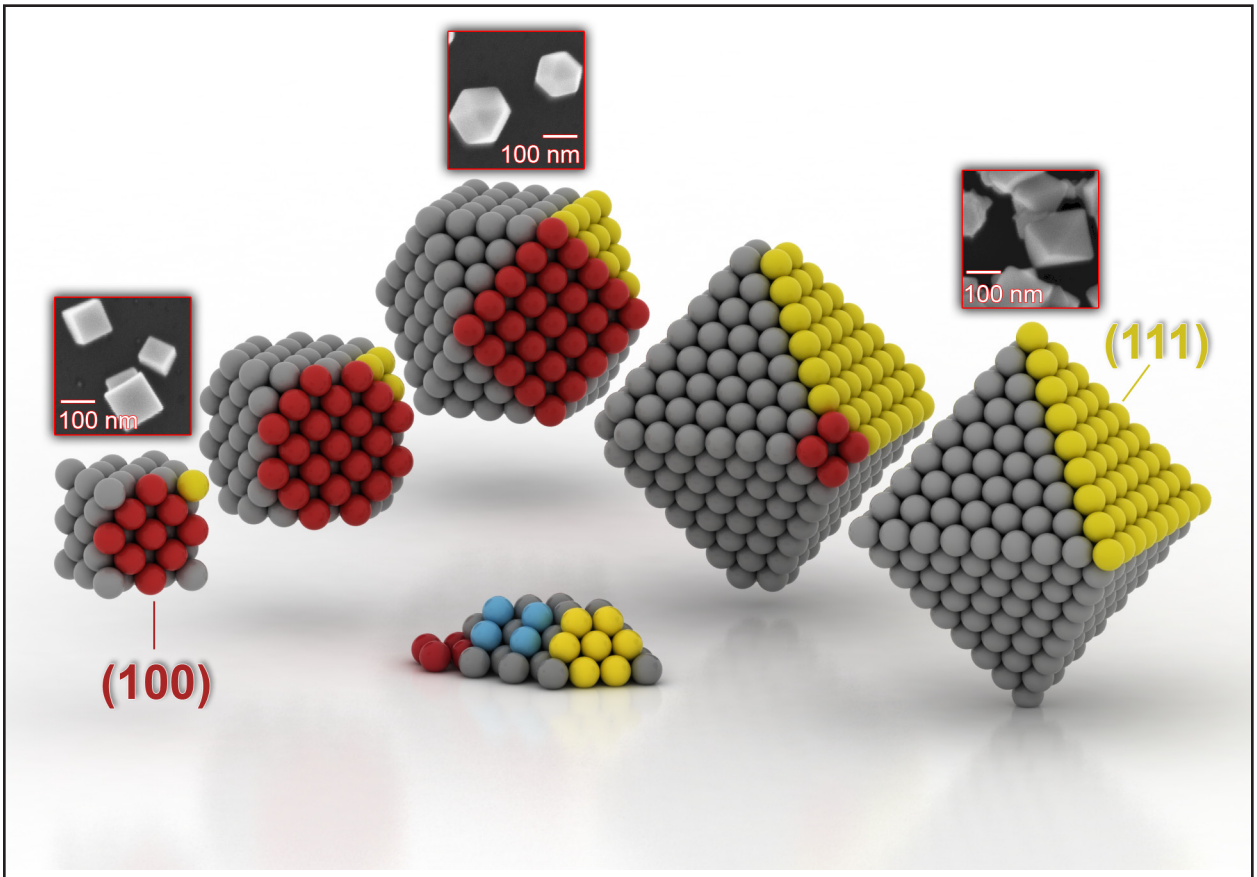

Abdullah Radi, UBC, Leung group, U. Waterloo.

Shape evolution (left to right) of Copper Nanoparticles, electrodeposited on Si(100), at different growth rates along the (100) and (111) directions with the associated Scanning Electron Microscopy images.

Radi, A.; Pradhan, D.; Sohn, Y.K.; Leung, K.T. *ACS Nano.* **2010,** *4,* 1553.

December 2012

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January 2013

February 2013

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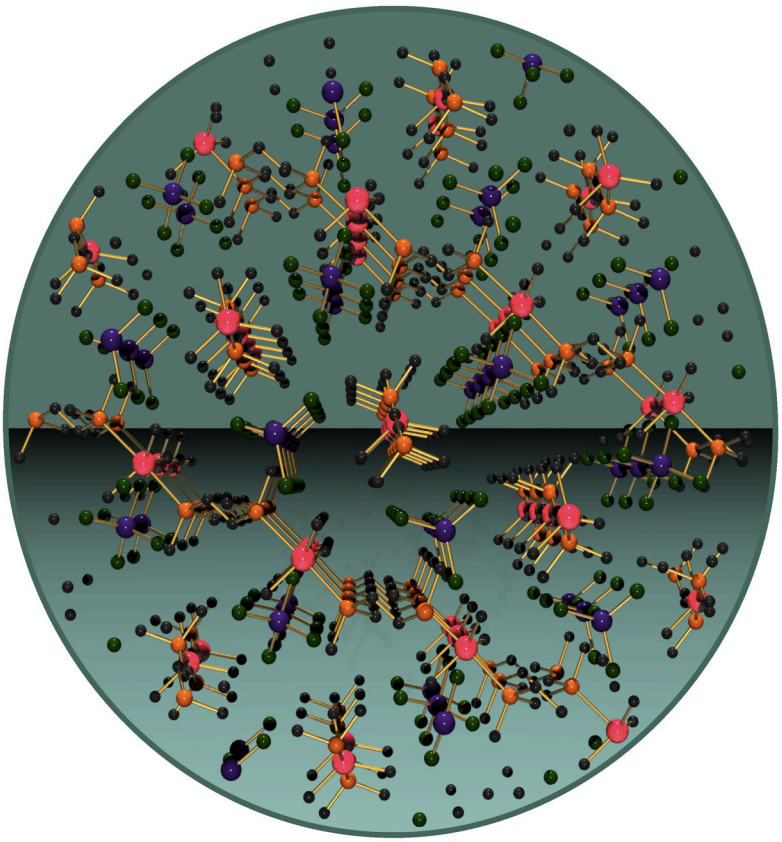

Elizabeth Mcdonald, Burford group, Dalhousie U.

The sphere of enclosure for the molecular structure of $([Me_2PCH_2CH_2Me_2PMe_3Sn][AlCl_4])_n$ where the sphere is centered at tin with a radius of 17.5 Å.

Angew. Chem. Int. Ed., **2011,** *51*, 11474.

January 2013

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February 2013

March 2013

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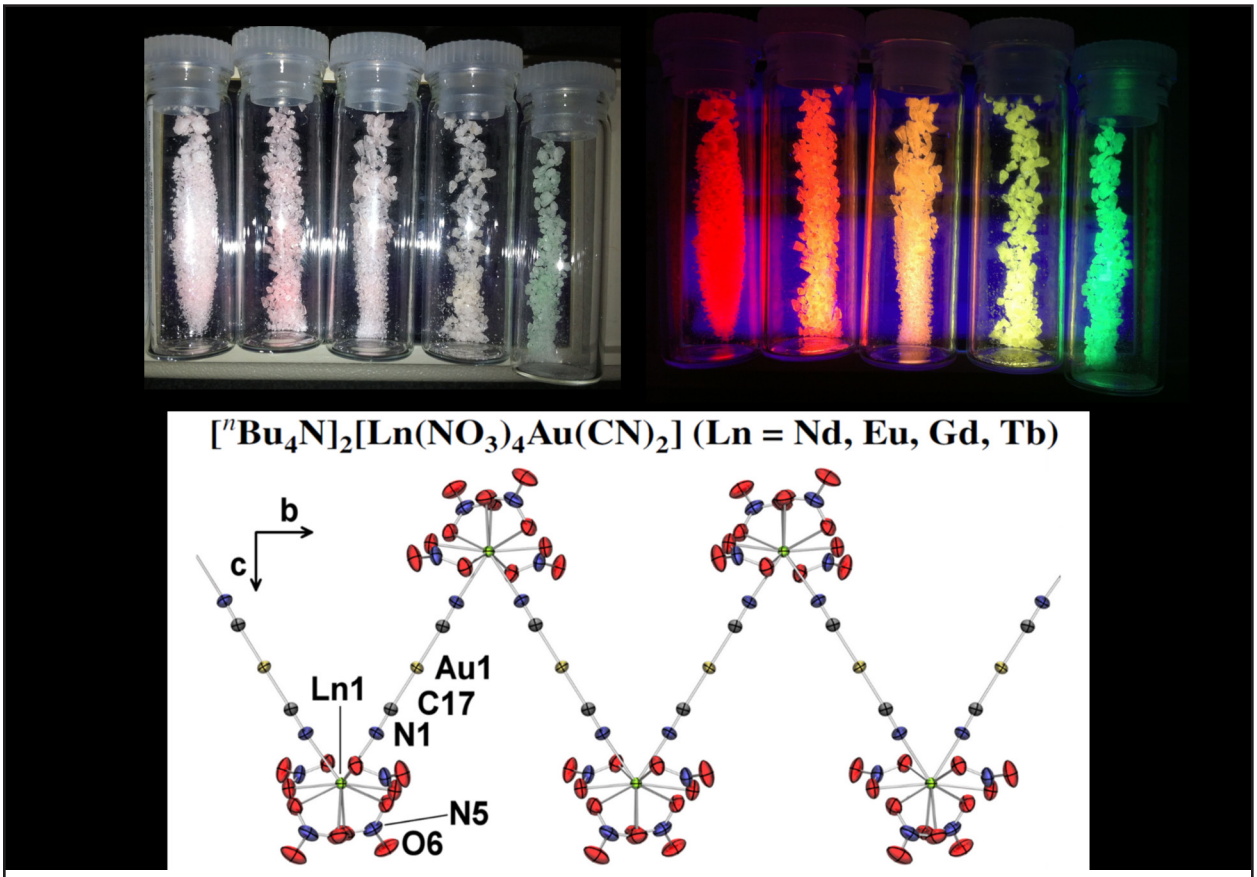

Ryan J. Roberts, Leznoff group, Simon Fraser U.

New dicyanoaurate-lanthanide 1-D coordination polymers [^{n}Bu$_4$N]$_2$[Ln(NO$_3$)$_4$Au(CN)$_2$]: Co-doping Ln = Eu^{3+}, Tb^{3+} ions forms solid solutions allowing tunability of emission colour.

Dalton Trans. **2012,** DOI: 10.1039/C2DT30156C.

February 2013

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March 2013

April 2013

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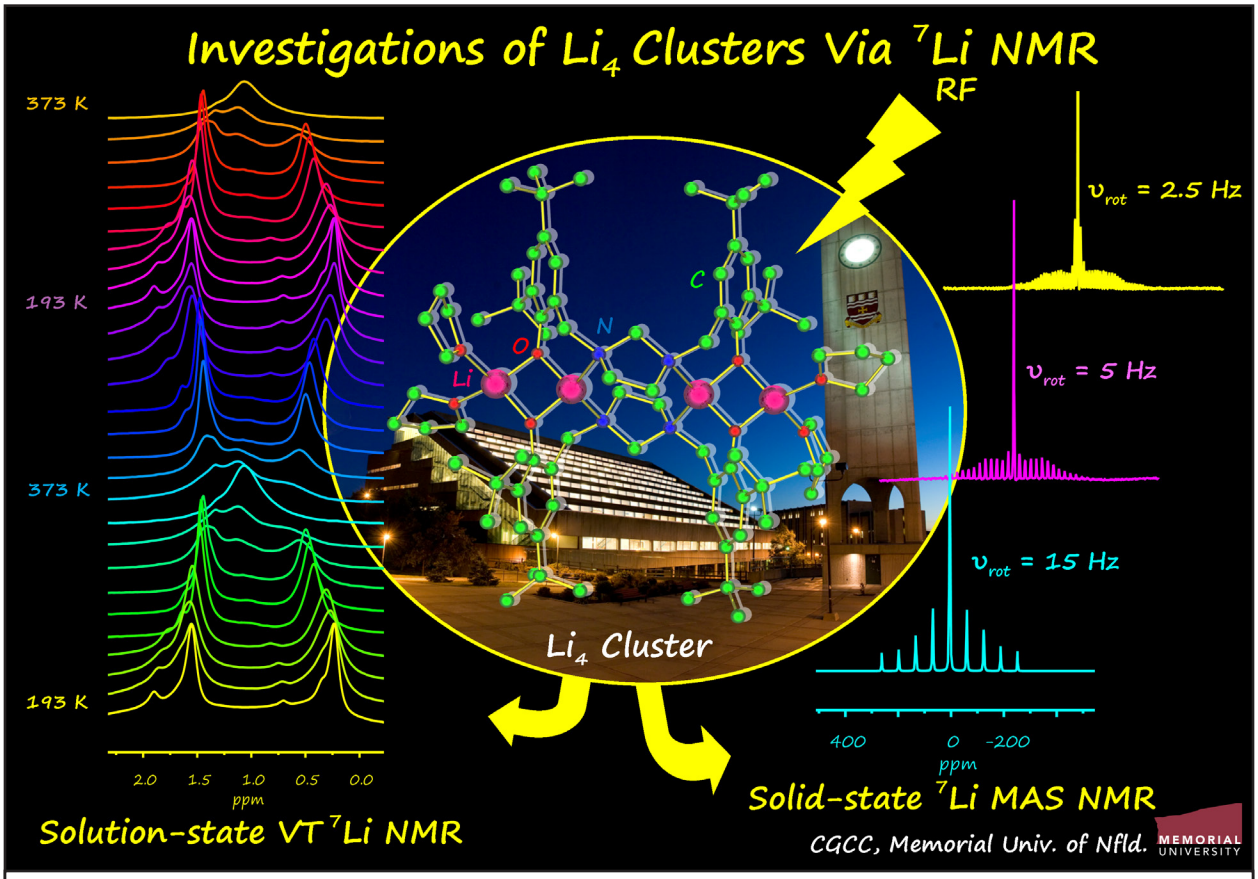

Marcus W. Drover, Kerton group, Memorial U.

^{7}Li{^{1}H}NMR spectroscopy (solution and solid-state) along with single crystal X-ray diffraction was used to characterize a Li_4 amine-phenolate cluster.

March 2013

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April 2013

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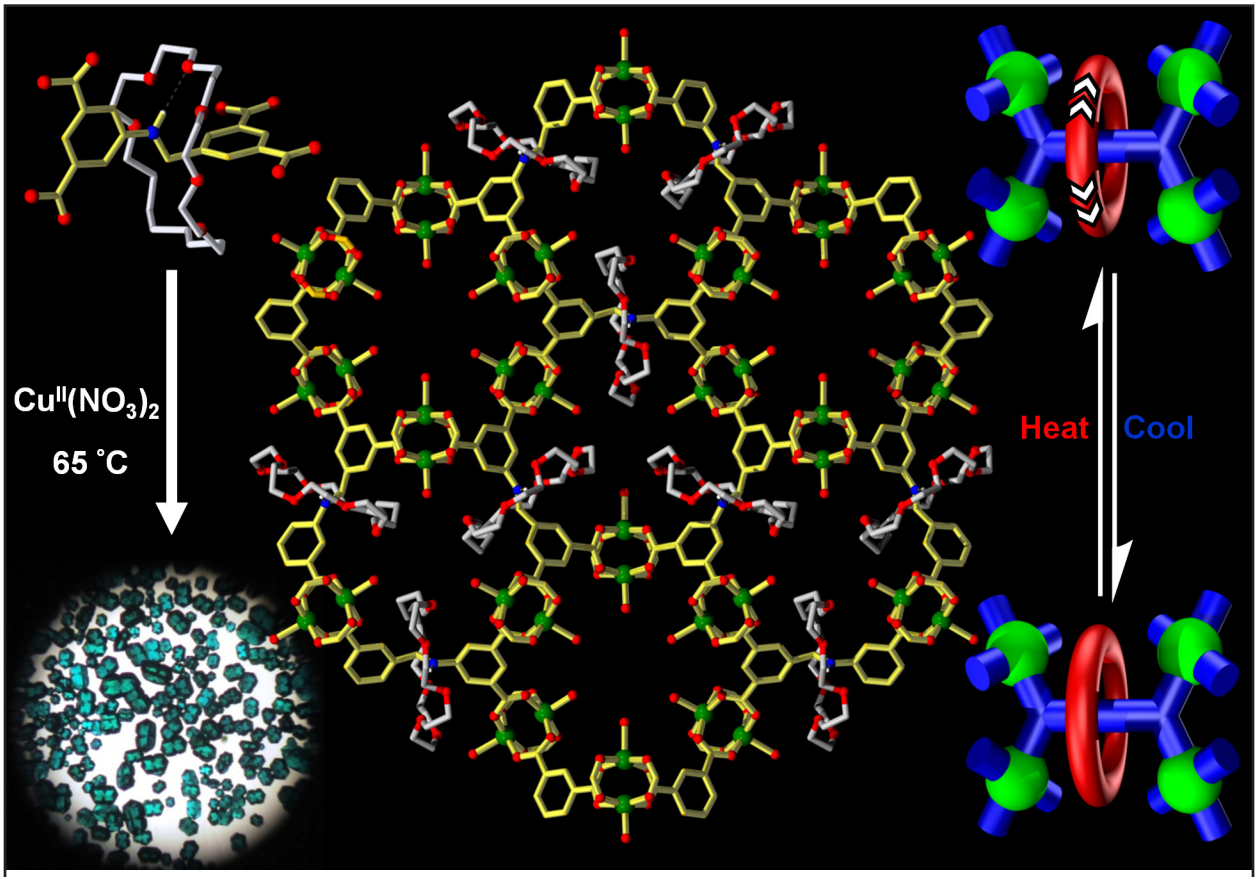

V. Nicholas Vukotic, Loeb group, U. Windsor.

A tetra carboxylate benzyl-aniline [2]rotaxane forms a metal organic framework, designated UWDM-1. Upon activation (heating) the material exhibits rapid rotation of its macrocyclic wheels, as demonstrated by SSNMR.

Nature Chem. **2012,** DOI: 10.1038/NCHEM.1354.

April 2013

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May 2013

June 2013

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