



Berlinguette, Curtis

Associate Professor, Department of Chemistry

Selected Publications (2008-2011)

Journal publications within Solar Electricity:

- Ren Y., Kan W. H., Henderson M. A., Bomben P. G., Berlinguette C. P., Thangadurai V., Baumgartner T., 2011, "External-Stimuli Responsive Photophysics and Liquid Crystal Properties of Self-Assembled "Phosphole-Lipids" J. Am. Chem. Soc. (In Press).
- Muise, S. S. R.; Severin, H. A.; Koivisto, B. D.; Robson, K. C. D.; Schott, E.; Berlinguette, C. P., 2011, "Regioselective C-H Activation of Cyclometalated bis-Tridentate Ru(II) Complexes" Organometallics. (In Press)
- Bomben, P. G.; Gordon, T. J.; Schott, E.; Berlinguette, C. P., 2011, "A Trisheteroleptic Sensitizer that Enables High Power Output in the Dye-Sensitized Solar Cell" Angew. Chem., Int. Ed. (In Press).
- Robson, K. C. D.; Sporinova, B.; Koivisto, B. D.; Schott, E.; Brown, D. G.; Berlinguette, C. P. "Systematic Modulation of a Cyclometalated Ru(II) Scaffold Bearing a Redox-Active Triphenylamine Constituent" Inorg. Chem. 2011, 50 (13), 6019-6028.
- Robson, K. C. D.; Sporinova, B.; Koivisto, B. D.; Baumgartner, T.; Yella, A.; Nazeeruddin, M. K.; Grätzel, M.; Berlinguette, C. P. "Design and Development of Functionalized Cyclometalated Ruthenium Chromophores for Light-Harvesting Applications" Inorg. Chem. 2011, 50 (12), 5494-5508.
- Bomben, P. G.; Koivisto, B. D.; Berlinguette, C. P. "Strategies for Optimizing the Performance of Cyclometalated Ruthenium Sensitizers for Dye-Sensitized Solar Cells." Eur. J. Inorg. Chem., 2011, 11, 1806-1814.
- Gordon, T. G.; Szabo, L. D.; Linder, T.; Berlinguette, C. P.; Baumgartner, T. "Structure-Property Relationships of Acylated Asymmetric Dithienophospholes", Comp. Rend. Chem. 2010, 13, 971-979.
- Bomben, P. G.; Koivisto, B. D.; Berlinguette, C. P. "Cyclometalated Ru(II) Complexes of Type [RuII(N^N)2(C^N)]z: Physicochemical Response to Substituents Installed on the Anionic Ligand" Inorg. Chem. 2010, 49, 4960-4971.
- Koivisto, B. D.; Robson, K. C. D.; Gordon, T. J.; Baumgartner, T.; Berlinguette, C. P. "Triphenylamine-Modified Ruthenium Terpyridine Complexes: Enhancement of Light Absorption by Conjugated Bridging Motifs." Inorg. Chem. 2010, 49, 5335.
- Sedach, P. S.; Gordon, T. G.; Sayed, S. Y.; Furstenhaupt, T.; Baumgartner, T.; Berlinguette, C. P. "Solution Growth of Anatase TiO₂ Nanowires from Transparent Conducting Glass Substrates" J. Mat. Chem. 2010, 20, 5063-5069.
- Sui, R.; Young, J.; Berlinguette, C. P. "Sol-Gel Synthesis of Sn-Doped TiO₂ Nanofibrous Xerogels" J. Mat. Chem. 2010, 20, 498-503.



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Selected Publications (2008-2011)

Koivisto, B. D.; Robson, K. C. D.; Berlinguette, C. P. "Systematic Manipulation of the Light-Harvesting Properties for Tridentate Cyclometalated Ruthenium (II) Complexes" *Inorg. Chem.* 2009, 48, 9644-9652.

Bomben, P. G.; Robson, K. C. D.; Sedach, P.; Berlinguette, C. P. "On the Viability of Cyclometalated Ru(II) Complexes for Light-Harvesting Applications" *Inorg. Chem.* 2009 48, 9631-9643.

Sui, R.; Thangadurai, V.; Berlinguette, C. P. "Facile Protocol for Fabricating TiO₂ Nanofibers in Organic Media". *Chem. Mat.* 2008, 20, 7022-7030.

Journal publications within Renewable Fuels:

Wasylenko, D. W.; Ganesamoorthy, C.; Berlinguette, C. P. "Rapid Water Oxidation by a Single-Site Cobalt Complex" *Chem. Commun.* 2011 (In Press).

Wasylenko, D. W.; Ganesamoorthy, C.; Berlinguette, C. P. "Electrochemical Evidence for Water Oxidation by a Single-Site Cobalt Complex" *Chem. Commun.* 2011, 47 (14), 4249-4251.

Wasylenko, D. W.; Ganesamoorthy, C.; Henderson, M.; Berlinguette, C. P. "Unraveling the Role of the Acid Medium, Experimental Probes and Terminal Oxidant, (NH₄)₂[Ce(NO₃)₆], in the Study of a Homogeneous Water Oxidation Catalyst" *Inorg. Chem.* 2011, 50, 3662-3672.

Wasylenko, D. W.; Ganesamoorthy, C.; Henderson, M.; Koivisto, B. D.; Berlinguette, C. P. "Electronic Modification of the [Ru(tpy)(bpy)OH₂]²⁺ Scaffold: Effects on Catalytic Water Oxidation" *J. Am. Chem. Soc.* 2010, 132, 16094-16106.

Wasylenko, D. W.; Ganesamoorthy, C.; Koivisto, B. D.; Berlinguette, C. P. "Water Oxidation by Bimetallic Catalysts" *Eur. J. Inorg. Chem.* 2010, 20, 3135-3142.

Wasylenko, D. W.; Koivisto, B. D.; Ganesamoorthy, C.; Henderson, M. Berlinguette, C. P. "Insight into Water Oxidation by Mononuclear Polypyridyl Ru Catalysts" *Inorg. Chem.* 2010, 49, 2202-2209.