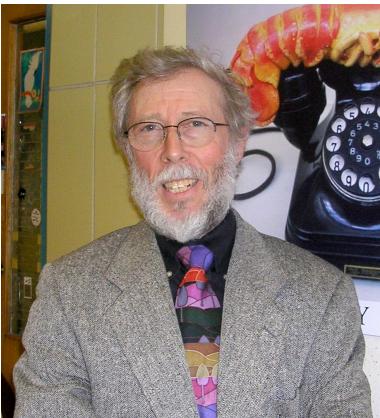


# Anthony W. Addison

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[- Prof. Addison, one of Drexel's two token Australians, is a C. & M. Lindback Distinguished Teaching](http://drexel.edu/chemistry/contact/facultyDirectory/Anthony>Addison/</a> B.Sc. (Hons.), 1968, University of New South Wales; Ph.D., 1971, University of Kent at Canterbury; Postdoctoral Fellow, 1970-72, Northwestern University; Assistant Professor, 1972-78, University of British Columbia.</p></div><div data-bbox=)



Awardee, a Fellow of the Royal Society of Chemistry ('08) and of the American Chemical Society ('12). He is an officer and past Chairman of the ACS Philadelphia Section, and a member of IES & CSC. He is lead author of the 6<sup>th</sup>-most-cited article in the field of Inorganic Chemistry in the last 30 years. His >240 articles and conference presentations have garnered *ca.* 10,000 citations in the research literature, a Hirsch Index of 37, an Egghe g-index of 95 & a Google *i*99 of 12.

## • Research Interests

Design, synthesis and properties of novel chelating agents and of macrocyclic and oligonuclear metal complexes. Models for various properties of Fe, Cu, Ni and V centres in O<sub>2</sub>-transporting and redox proteins. Electrochemistry, CD, EPR and magnetic properties of extended and molecular systems for thermal & photostimulated energy- and electron-transfer. Bioinorganic chemistry of metalloproteins.

## • Recent Publications

• E. A. Mikhalyova, A. V. Yakovenko, M. Zeller, M. A. Kiskin, Y. V. Kolomzarov, I.L. Eremenko, A. W. Addison\* & V. V. Pavlishchuk\*, "Manifestation of  $\pi$ - $\pi$  Stacking Interactions in Luminescence Properties and Energy Transfer in Aromatically-Derived Tb, Eu and Gd Tris(pyrazolyl)borate Complexes". *Inorganic Chemistry*, **54** (2015) 0000-0000. [DOI: [10.1021/ic502120g](https://doi.org/10.1021/ic502120g)]

• J. J. Stephanos\* & A.W. Addison, "Chemistry of Metalloproteins: Problems and Solutions in Bioinorganic Chemistry" (*Wiley Series in Protein and Peptide Science*); Wiley-Interscience, New York, 2014; ISBN: 978-1-118-47044-2; 400 pp., July 2014.

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- G.T. Reeves\*, A.W. Addison, M. Zeller & A.D. Hunter, "Ru(II) thioether complexes with dangling pyridine ligands", *Polyhedron*, **68** (2014) 70-75 [DOI: [10.1016/j.poly.2013.10.001](https://doi.org/10.1016/j.poly.2013.10.001)]
- J. M. Popovitch, A. W. Addison\*, R. J. Butcher, M. J. Prushan, "The 1,8-bis(2'-pyridyl)-3,6-dithiaoctane complex of rhodium(III)", *Journal of Chemical Crystallography* (2012) **42**, 295-298 [DOI: [10.1007/s10870-011-0239-8](https://doi.org/10.1007/s10870-011-0239-8)]
- E. A. Mikhalyova, A. V. Yakovenko, M. Zeller, K. S. Gavrilenco, S. E. Lofland, A. W. Addison\* & V. V. Pavlishchuk\* "Structure, magnetic and luminescence properties of the lanthanide complexes Ln<sub>2</sub>(Salphen)<sub>3</sub>·H<sub>2</sub>O (Ln = Pr, Nd, Sm, Eu, Gd, Tb, Dy; H<sub>2</sub>Salphen-*N,N'*-bis(salicylidene)-1,2-phenylenediamine)" *Inorganica Chimica Acta*, **9** (2014) 97-104 [April 2014, DOI: [10.1016/j.ica.2014.01.034](https://doi.org/10.1016/j.ica.2014.01.034)]
- E. A. Mikhalyova, S. V. Kolotilov, M. Zeller, L. K. Thompson, A.W. Addison\*, V. V. Pavlishchuk\* & A. D. Hunter, "Synthesis, structure and magnetic properties of Nd<sup>3+</sup> and Pr<sup>3+</sup> 2D polymers with tetrafluoro-*p*-phthalate", *Dalton Transactions* **40** (2011) 10989-10996 [DOI: [10.1039/c1dt11237f](https://doi.org/10.1039/c1dt11237f)]
- A. V. Pavlishchuk, S. V. Kolotilov, I. O. Fritsky, M. Zeller\*, A. W. Addison & A. D. Hunter, "Structural trends in a series of isostructural lanthanide-copper metallacrown sulfates (Ln<sup>III</sup> = Pr, Nd, Sm, Eu, Gd, Dy and Ho)" *Acta Crystallographica C* **67** (July 2011) m255-m265 [[doi:10.1107/S0108270111021780](https://doi.org/10.1107/S0108270111021780)]
- A.V. Pavlishchuk, S.V. Kolotilov\*, M. Zeller, O.V. Shvets, I.O. Fritsky, S.E. Lofland, A.W. Addison\* & A.D. Hunter, "Magnetic and Sorption Properties of Supramolecular Systems Based on Pentanuclear Copper(II) 12-Metallacrown-4 Complexes and Isomeric Phthalates: Structural Modeling of Different Stages of Alcohol Absorption", *The European Journal of Inorganic Chemistry*, (2011) 4826-4836 [Oct. 2011; DOI: [10.1002/ejic.201100790](https://doi.org/10.1002/ejic.201100790)]
- A. V. Pavlishchuk, S. V. Kolotilov,\* M. Zeller, L. K. Thompson, I. O. Fritsky, A. W. Addison\* and A. D. Hunter, "A triple-decker heptadecanuclear (Cu<sup>II</sup>)<sub>15</sub>(Cr<sup>III</sup>)<sub>2</sub> complex assembled from pentanuclear metallacrowns." *The European Journal of Inorganic Chemistry*, (2010) 4851-4858 [Oct. 2010] [DOI: [10.1002/ejic.201000367](https://doi.org/10.1002/ejic.201000367)]
- D. Dragancea<sup>a</sup>, A. W. Addison<sup>a,b</sup>, M. Zeller<sup>c</sup>, M. E. Foster<sup>b</sup>, M. J. Prushan<sup>d</sup>, L. K. Thompson<sup>e</sup>, M. D. Revenco<sup>a</sup> and A. D. Hunter<sup>c</sup>, "A tetrานuclear copper(II) bis-thiocarbohydrazone complex derived from *o*-aminobenzaldehyde." *Inorganica Chimica Acta*, **363** (2010) 2065-2070; A *Science Direct* 2010 "Hot Paper". [doi:10.1016/j.ica.2010.02.002](https://doi.org/10.1016/j.ica.2010.02.002)
- I.V. Vasylenko, K.S. Gavrilenco, V.G. Il'yin, V. Golub, G. Goloverda, V. Kolesnichenko, A.W. Addison\* and V.V. Pavlishchuk\* "The metamorphosis of heterometallic trinuclear antiferromagnetic complexes into nano-sized superparamagnetic spinels" *Materials Chemistry and Physics* **121**(1/2), 47-52 (May 2010) [DOI: [10.1016/j.matchemphys.2009.12.040](https://doi.org/10.1016/j.matchemphys.2009.12.040)]