CURRICULUM VITÆ

2022/11/16

ADDISON, Anthony William.

Chemistry Department, Drexel University, Philadelphia, PA 19104-2816, U.S.A.
Voice: 1-215-895-2646; *E-mail*: AddisonA@drexel.edu; *Fax*: 1-215-571-3525
Web: http://drexel.edu/coas/academics/departments-centers/chemistry/faculty/

Education:

B.Sc. (Hons-I, Applied Chemistry), University of New South Wales (1964-67). Conferred 1968.
Ph.D. (Chemistry), University of Kent at Canterbury (1968-1970). Conferred 1971.

Professional History:

M.R.C. Research Assistant, University of Kent at Canterbury, 1968-70.
Postdoctoral Fellow (NIH-funded), Northwestern University, 1970-72.
Assistant Professor of Chemistry, University of British Columbia, 1972-78.
Associate Professor of Chemistry, Drexel University, 1978-91.
(Tenured April 1984; Assistant Head of Department, 1985-87, Associate Head of Department, 1987-99; Head of Department, 2000-2003.)
Adjunct Associate Professor, UMDNJ-Robert Wood Johnson Memorial Hospital at Camden, 1991-2013.
Faculty Associate of the Drexel University School of Biomedical Engineering and Science, 1990-2017.
Professor of Chemistry, Drexel University, March 1991-August 2017.
Professor Emeritus of Chemistry, Drexel University, September 2017–

Erdös number= 5
Hirsch Index *h*= 41
Egghe Index *g*= 121
Google *i99*= 14
Google *i10*= 94

Honours and Awards:

Australian Commonwealth Scholar, 1964-67.
Elected Honorary Member of Phi Eta Sigma, 1982.
The *John van Geuns Fonds* Lecturer, Universiteit van Amsterdam, The Netherlands, April 1985.
Christian & Mary Lindback Award for Distinguished Teaching, 1987.
1989 Chairman, American Chemical Society Philadelphia Section
Le Conférencier: la Convention Intercantonale Romande d'Enseignement du 3e Cycle en Chimie, (Geneva, Lausanne & Neuchâtel) Switzerland, October 1990.
American Chemical Society Philadelphia Section: Ullyot Award for Meritorious Service - presented at the Section Centennial Gala, April 1999.
Elected *Fellow* of the Royal Society of Chemistry, March 2008.
Elected *Fellow* of the American Chemical Society, August 2012.
Elected *Fellow* of the Royal Australian Chemical Institute, August 2016.
The American Chemical Society Philadelphia Section Award, 2016.

Selected Citation Data (as of May 2022)**:**

• >15,300 citations total.
• *Inorg. Chem.,* **16**, (1977) 1341-: 454 cites.
• *J. Chem. Soc., Dalton Trans*. (1979) 600-: 610 cites: ranked recently at *ca*. #48 of the 100 most-highly cited inorganic papers published by the RSC since 1900.
• *J. Heterocyclic Chem*. **18** (1981) 803-: 347 cites: the fourth-most highly cited paper out of >16,000 in JHC.
• *J. Chem. Soc., Dalton Trans*., (1984) 1349-: 8,541 cites: the most-highly cited inorganic paper published by the RSC since 1899, and one of the five most-cited papers in the inorganic field published since 1980.
• *Inorg. Chim. Acta*, **298** (2000) 97-: 1,038 cites: the most highly-cited paper (out of >29,000) ever published

in ICA, and currently the most-downloaded one.

Professional Affiliations:
• The Royal Society of Chemistry, Member, 1968 to present.
(Member, Dalton Division, and Inorganic Biochemistry, Electron Spin Resonance, Macrocycles and Inorganic Reaction Mechanisms Subject Groups.)

• The Chemical Institute of Canada & The Canadian Society for Chemistry, 1974 to present (Vancouver Section CIC Executive member, 1974-78; *Catalyzer* Editor, 1976-77; Chairman, Vancouver Section, 1978.)

• American Chemical Society, 1974 to present. (Member of Biological Chemistry Division, 1980-87; Inorganic Chemistry Division, 1974-, inception member of the Bioinorganic Chemistry Subdivision;

Local Section Participation: Section Chairman, 1989; Publications/Communications Committee (1979-present; Chair 1981-87); Member, Section Board of Directors, 1987-90; Section Nominations Committee (1990-91); Chairman, *ad hoc* Committee on Awards for Excellence in Pre-College Teaching, 1991; Section Alternate Councillor, 1994-; Section Councillor, 2003-2016; Member, Section Awards Committee, 2006-2008.

Regional Participation: Program Chair, 30th Mid-Atlantic Regional Meeting (MARM), Villanova, PA, 1996; Program Co-Chair, 39th MARM, Collegeville, PA, 2007; Member/Associate Mid-Atlantic Region Board 2005–2012; Member, MAR Awards Committee, 2010, 2013, 2014, 2015; Section liaison to Mid-Atlantic Region Board, 2013-2014-2015-2016

National Participation: Member, an ACS National Award Committee, 2007-09; Associate Member/Member, National Committee on Meetings & Expositions, & Regional Meetings Subcommittee, 2008-2015; Associate Member/Member of the Joint Board/Council Committee on Publications, 2016-2022.

• Member, Royal Australian Chemical Institute, 1967, May 2016-
• Member, IES - the International EPR (ESR) Society, 2002-

Research Interests:

Design, synthesis and properties of novel chelating agents, including antennæ for lanthanide luminophores and of macrocyclic and dinuclear inorganic complexes. Energy- and electron-transfer properties of complexes of the platinum metals and lanthanides. Electrochemistry, CD, EPR and magnetic properties of extended and molecular inorganic systems. Bioinorganic chemistry: chemistry of dioxygen- and NO-binding metalloproteins, particularly hemerythrins, myoglobins and invertebrates' hemoglobins. Models for various properties of iron, copper, nickel and vanadium centres in O_2-transporting and redox proteins.

Community Service:

Member, the Association for the Rights of Citizens (ARC) 1988-2000.
Delaware County (DELARC) site inspector, Community Living Arrangements (1986-8).
Judge, Delaware Valley Science Fair (1986).
Member, Autism Society of America (Delaware County Co-convener, 1987-88.)
Co-coach, Wallingford-Swarthmore School District “Odyssey of the Mind”, Summer/Fall 1992.
Support volunteer to ALAW - Autism Living & Working, 2003- present.

Other Professional Activities:
• Co-founder and co-supervisor of the Bioinorganic Chemistry Research Group at The University of British Columbia, 1974-1978.
• Co-organizer, International Symposium, Biological Aspects of Inorganic Chemistry, University of British Columbia, June 1976 ("the Zeroeth ICBIC").
• Chairman, Inorganic Chemistry session, ACS Northwest Regional Meeting, Portland, Oregon, 1977.
• Discussion Leader, International Minisymposium on Copper Chemistry, Detroit, MI, June 1979.
• Chairman, "Iron Biochemistry" Session, ACS Division of Inorganic Chemistry, 2nd Chemical Congress of the North American Continent, Las Vegas, Fall 1980.
• Chairman "Copper/Iron Bioinorganic Chemistry" Session, ACS Division of Inorganic Chemistry, 186th. National Meeting, Washington, DC, Fall 1983.
• NATO Research Project Director (Philadelphia & Leiden), 1983-86.

• Chairman, "General and Biological Inorganic Chemistry" Session, ACS Division of Inorganic Chemistry, 188th. National Meeting, Philadelphia PA, Fall 1984.
• Referee for research proposals submitted to: U.S. National Science Foundation, Petroleum Research Fund, ACS, North Atlantic Treaty Organization, Cottrell Foundation, U.S. National Institutes of Health
• Referee for research papers submitted to: ACS *Journal of the American Chemical Society*, ACS *Inorganic Chemistry*, ACS *I & EC Research and Development*, *Canadian Journal of Chemistry*, *Journal of Coordination Chemistry*, *Journal of Inorganic Biochemistry*, *Nouveau Journal de Chimie*, *Inorganica Chimica Acta, The European Journal of Biochemistry, Coordination Chemistry Reviews, Journal of the Chemical Society - Dalton Transactions, Journal of the Chemical Society - Chemical Communications; The European Journal of Inorganic Chemistry; Chemistry, a European Journal.*
• Reviewer for U.S. National Research Council Committee on Human Resources (1981).
• Attendee at workshop: "Microcomputer Interfacing", (VPISU faculty-run) Greensboro, NC, Fall 1985.
• Judge, U.S. Army Junior Science & Humanities Symposium, Philadelphia, PA, March 1987.
• *Ad hoc* member, U.S. National Institutes of Health Metallobiochemistry Study Committee, Washington, DC, October 1987.
• Judge, U.S. Army Junior Science & Humanities Symposium, Philadelphia, PA, April 1988.
• Chairman: "Transition Metal Biochemistry of Mn & Fe" Session, for American Chemical Society Division of Inorganic Chemistry, Third North American (ACS/CIC/SQM) Chemical Congress, Toronto, Canada, June 1988.
• Chairman: "General - Transition Metal - Biochemistry" Session, for American Chemical Society Division of Inorganic Chemistry, Third North American (ACS/CIC/SQM) Chemical Congress, Toronto, Canada, June 1988.
• Member, U.S. National Institutes of Health Metallobiochemistry Study Committee, Washington, DC, October 1988.
• Judge, U.S. Army Junior Science & Humanities Symposium, Philadelphia, PA, March 20-21, 1989.
• Program Chairman (Inorganic Chemistry) 23rd. American Chemical Society Mid-Atlantic Regional Meeting, Cherry Hill NJ, May 1989.
• External Examiner: Inorganic Chemistry, Swarthmore College Honors program, May 1990.
• Chairman: "Bioinorganic" Session, for American Chemical Society Division of Inorganic Chemistry, 200th. National Meeting, Washington, DC, August 1990.
• External Examiner in Inorganic Chemistry & undergraduate research thesis & Chairman of the Conference of External Examiners in Science & Engineering , Swarthmore College Honors program, May 1991.
• External Examiner: Inorganic Chemistry & undergraduate research thesis, Swarthmore CollegeHonors program, May 1994.
• Programme Chairman, American Chemical Society 30th. Mid-Atlantic Regional Meeting, Villanova, PA, 1996.
• Programme Co-Chairman, ACS 39th. Mid-Atlantic Regional Meeting, Collegeville, PA, 2007.
• Member of an ACS National Award Committee, 2007-2008-2009.
• Member of the Philadelphia Section Awards Committee, 2006-2008.
• Associate, ACS National Committee on Meetings & Expositions, 2008; Member, ACS National Committee on Meetings & Expositions, 2009-2014; Member, Regional Meetings Subcommitttee, 2008-2014
• Member, 41st ACS-Mid-Atlantic Region Awards Committee, 2010.
• Co-organizer, ACS Phila. Section Grad School Fair, Temple University, Oct. 2010; presentation, "*Applying to Grad School -a view from the 'other' side"*
• Co-organizer, ACS Phila. Section Student Research Poster Day, Drexel University, Feb. 2013.
• Member, 44th ACS-Mid-Atlantic Region Awards Committee, 2013, 2014.
• ACS Philadelphia Section Liaison to the MAR Board, 2013-2014
• Member, 45th ACS-Mid-Atlantic Region Awards Committee, 2014.
• Co-organiser & host, Philadelphia Section ACS and ACS Mid-Atlantic Regional teaching awards banquet; (speaker ACS President-Elect Barton) Drexel U., May 2013.

Biographical Listings:

1. "American Men and Women of Science", 1992.
2. "Who's Who in Frontier Science and Technology"
3. "The Directory of Distinguished Americans" (3rd. Edn.)

4. Marquis "Who's Who in North America." (23rd. Ed'n., 1990).
5. "Who's Who in The East."
6. Marquis "Who's Who of Emerging Leaders in America", 1987.
7. "Dictionary of International Biography" Vol. XX, 1987.
8. "Who's Who in American Education" (1992-93 Ed'n.).
9. "Who's Who in Technology", Gale Research, 1994.
10. Strathmore's "Whos Who", Strathmore Directories, 1998/99.
11. The Oxford/Cambridge (U.K.) Directory of Distinguished Scientists, 2001.

Recent Administrative Duties & Service:

Alternate Senator (CoAS), Drexel U. Faculty Senate, 2015-
Member, University Appeals Committee on Tenure & Promotion, 2011-2014.
Member, N. Johnson Graduate Seminar Committee, Feb. 2012.
Member, W. Du Graduate Seminar Committee, Mar. 2012.
Chair, C. Castillo Ph.D. thesis Exam Committee, Mar. 2012.
Chair, J. Xi Tenure/Promotion Committe, April-Oct. 2012.
Member, S. Kotowich Ph.D. thesis exam Committee, May 2012.
Member, A. Mahan Ph.D. thesis exam Committee, June 2012.
Chair, R. Li Ph.D. thesis Exam Committee, Jan. 2013.
Chair, C. Herbst-Gervaison Ph.D. proposal oral exam, Feb. 2013.
Graduate Adviser, Chemistry Dept., 2013-2014.
Chair, N. Dixon Ph.D. thesis Exam Committee, Nov. 2013.
Member, B. Johnson Ph.D. thesis exam Committee, Dec. 2013.
Member, CoAS Dean's Advisory Committee on Tenure & Promotion, Jan. 2014.
Chair, C. Kita Ph.D. proposal oral exam committee, June 2015.
Chair, L. Pandiscia Ph.D. thesis Exam Committee, July 2015.
Chair, J. Smith Ph.D. thesis Exam Committee, Feb. 2016.
Member, A. Caltabiano Ph.D. thesis Exam Committee, Feb. 2017.
Member, E. Gorre Ph.D. thesis Exam Committee, May 2018.

Media Interactions:

• August 1984: WCAU-NBC Channel-3, WCAU-Radio, KYW-NewsRadio interviews (*re* Explosive Substance in Disqué Hall).
• April 6, 1989: ABC channel-6 news interview (re Fishtown Chemical Site).
• "Lab Safety" *Canadian Chemical News/L'Actualité chimique canadienne* 1989 *41*(6), 4 (Letter to the Editor).
• "Ranking = Poor Science" *Canadian Chemical News/L'Actualité chimique canadienne* 1995 *47*(9), 4 (Letter to the Editor re inappropriate statistics).
• "Is ATP an energy source ?" *Chemistry in Britain* 1996 *32*(9), 23 (Letter to the Editor re. muscle thermo.).
• "Accuracy Matters" *Chemical & Engineering News* 1996 *74*(42) [Oct.14] 6 (Letter to the Editor re. refereeing).
• "Book and Beer ?" *The Swarthmorean* 1999 [] Letter to the Editor regarding liquor licensing).
• "It's Not the Rainfall" *Philadelphia Inquirer* 1999 [Aug. 11] (Letter to the Editor re. water resources).
• "Dignified ?" *The Swarthmorean* , 2000 [Dec. 1] (Letter to the Editor *re* Presidential candidacies).
• With M.J. Prushan: Capillary action in water/alcohol mixtures: *Cuizine* Aug/Sept. 2001, 8 (Letter to the Editor).
• "From Council", *the Catalyst,* May 2005.
• "From Council", *the Catalyst,* May 2006.
• "From Council", *the Catalyst,* November 2006, 143-144.
• "From Council", *the Catalyst,* May 2007, 77-78.
• "Boston Council Meeting", *the Catalyst,* Oct. 2007.
• "New Orleans Council Meeting", *the Catalyst,* June 2008.
• "From Philadelphia Council Meeting", *the Catalyst,* **93**(9) *2008* (Oct) p.162.
• Obituary for Allan L. Smith: (a) *Chemical & Engineering News* **87**(7) (2009) p59 [Edited by S.J. Ainsworth]; (b) *The Catalyst* **94**(2) *2009*, p21 [Edited by A. Warren]
• "From The Spring ACS Council Meeting", *the Catalyst,* **94**(5) *2009*, (May) p76 (with A. DeMasi)

• "From The Fall 2010 Council Meeting", *the Catalyst,* **95**(8) *2010*, (Oct) p140.
• Letter to *Chemistry World* (Aug. 2010, on freezing of O_2):
http://www.rsc.org/chemistryworld/restricted/2010/august/letters.asp
• "Crystals solved ....." Letter to the Editor, *Chemistry World* (2012) **9**(10) 41.
• "From The Fall Council Meeting", *the Catalyst,* **97**(9) *2012*, (Oct) p.195.
• "Report from ACS Council", *the Catalyst,* **98**(5) *2013*, (May) p.100.
• Letter to the Editor: "Them and -ous", *Chemistry World*, May 2014, pp.40.
• "*From the Spring Council Meeting*" *the Catalyst*, **99**(5) *2014* (May), p.91.
• "*From the Fall 2014 ACS Council*" *the Catalyst*, **99**(7) *2014* (Sept.), p.137.
• "*From the Spring Council Meeting*" *the Catalyst*, **100**(7) *2015* (Sept.), p.125.
• "*Report From the Fall Council Meeting*" *the Catalyst*, **100**(8) *2015* (Sept.), p.141-142.
• "*From ACS Council*" *the Catalyst*, **101**(8) *2016* (Sept.), p.138.
• "*From ACS Council*" *the Catalyst*, **102**(8) *2017*(Oct.), p.135.
• "*From the Mid-Atlantic Region Board*" *the Catalyst*, **102**(9) *2017* (Nov.), p.150.

Other Professional Skills:

Able to translate Chemistry research articles in German, French, Italian and sometimes even Romanian.
Computer languages: Forgotten all FORTRAN, never learned Pascal, but adept with a mouse.

Most Recent Former Teaching Duties:

Undergraduate:

CHEM.101: Freshman Chemistry I
CHEM.102: Freshman Chemistry II
CHEM.421: Inorganic Chemistry I
CHEM.420: Molecular Symmetry & Group Theory
CHEM.422: Inorganic Chemistry II
CHEM.497: Undergraduate Research
CHEM.493: Senior Research

Graduate:

CHEM.521 Inorganic Chemistry I
CHEM.522 Inorganic Chemistry II
CHEM.523 Inorganic Chemistry III
CHEM.774 Electrochemistry for Chemists
CHEM.997 Research
CHEM.998 PhD Thesis

Ph.D. Thesis Advisees:

Curtis G. Wahlgren (1989), "Iron complexes as models for nonheme iron proteins".
Joseph J. Stephanos (1989), "Hemoproteins: Reactivity and Spectroscopy".
Thomas J. DiFeo (1990), "Chiroptical and physicochemical properties of heme proteins from marine invertebrates".
Scott A. Farina (1997), "Studies of invertebrate heme proteins".
Jayakumar G. Gilbert (2000), "Copper(II) and nickel(II) complexes with biomimetic donors".
Michael J. Prushan (2001), "Thioether-oxime complexes of nickel(II) and copper(II)".
GorDan T. Reeves (2009), "Ruthenium(II) complexes of multidentate thioether and amine ligands".
Molly A. O'Connor (2013), "Chiral and achiral copper(II) and nickel(II) complexes with novel multidentate ligands".

Students and Research Workers Supervised since 2010.

I. Sasimovich (B.S. student, summer 2009): cobalt & copper isoindoline complexes.
E. Duranza (STAR Scholar, Summer 2010; Fall 2010-, B.S. student, A/Y 2013-2014): New bidentate and chiral benzimidazole-derived and tridentate chelating agents.
J. Brooks (B.S. student, Fall 2010-2013): copper & nickel Schiff base chelates.
Mrinalini Sharma (B.S. student, Fall 2010-): New bidentate and chiral benzimidazole-derived chelating

agents.

M.A. O'Connor (Ph.D. 2013) "Chiral and Achiral Copper(II) and Nickel(II) Complexes with Novel Multidentate Ligands"

J. Mitchell (B.S. student, A/Y 2012-2013): copper & nickel chelates with chiral tetradentate ligands.

A. Meisel (B.S. student, Winter-Spring 2013-2014): vanadium chelates of ditopic thiocarbohydrazone ligands.

Pedro E. Martins-Amaral (Overseas Scholar, Spring 2014) Toward a model for the Fe active site of taurine hydroxylase.

U. Hajari (B.S. student, Winter-Spring 2015): new ligand-metal combinations for luminescent substances.

O. Rivas (B.S. student, 2015): cobalt(II) isoindoline complexes.

A. Haftl (STAR Scholar, 2015) synthesis of *N*-alkylated benzimidazole precursors.

V. Smith (Maryanoff Fellow, 2015) metal ion catalysis of periodate decomposition.

G. Vitale (STAR Scholar, 2015) synthesis of *N*-alkylated benzimidazole precursors.

J. Czop (STAR Scholar, 2015) luminescent lanthanide chelates.

R. Grieve (STAR Scholar, 2015) luminescent lanthanide chelates.

A. Robinson (M.S. student, 2015-) mononuclear metal isoindoline halides.

S. Jaworski (with M.A. O'Connor; B.S. student, 2016): novel cobalt(II) pyridyl-amine complexes.

K. Williams (Maryanoff Fellow, 2016-) new ligands for luminescent lanthanides.

E. Brayman (B.S. student, 2017): novel cobalt(II) pyridyl-amine complexes.

Support Solicitations since 2012:

R. Schweitzer-Stenner (PI), A.W. Addison co-PI, "Partial unfolding and oligomer formation of cytochrome c in solution and on cardiolipin containing liposomes"; $704K for 10/01/2013–08/31/2016. Submitted to NSF Jan. 2013.

K. Lau, PI; co-PIs A.W. Addison, F. Ji & K. Sohlberg: *IeXE* proposal, "Synthesis and Integration of New Photosensitizer Dyes and Polymer Electrolytes in Next-Generation Dye Sensitized Solar Cells", submitted Feb. 2014, $50K.

I.Golovina, PI; co-PI's A.W. Addison & S. Tyagi, "MRI: Acquisition of a Two-Frequency CW Electron Paramagnetic Resonance Spectrometer for Advanced Materials, Molecular Research and Education at Philadelphia Area Universities". Submitted Jan. 2020, $688K from NSF-MRI, plus $273K cost-sharing.

A: Abstracts/Conference Proceedings *(*denotes presenter)*:

1. A.W. Addison, "Redox Properties of Binuclear Copper Complexes", 170th American Chemical Society National Meeting, Chicago, IL, 1975, INOR-006.

2. A.W. Addison* and H. Yokoi, "Redox and Spectroscopic Properties of Pseudotetrahedral Copper Complexes", 172nd. American Chemical Society National Meeting, San Francisco, CA, 1976, INOR-230

3. M. Wicholas*, A.W. Addison and L.K.-M. Lau, "Square Pyramidal Adducts of the Macrocyclic Copper(II) Complex, Cu(cyclops)$^{+}$", 173rd American Chemical Society National Meeting, New Orleans, 1977, INOR-183.

4. A.W. Addison and R.E. Bruce*, "Chemistry of Hemerythrin from the Sipunculid *Phascolosoma lurco* " American Chemical Society 32nd. Northwest Regional Meeting, Portland, OR, 1977, BIOL-064.

5. J.B.R. Dunn, A.W. Addison, R.E. Bruce, J.S. Loehr and T.M. Loehr*, "Comparison of Hemerythrins from Four Species of Sipunculids by Optical Absorption, Circular Dichroism, Fluorescence Emission and Resonance Raman Spectroscopy", American Chemical Society 32nd Northwest Regional Meeting, Portland, OR, 1977, BIOL-066.

6. A.W. Addison* and (Ms.) J. Stenhouse, "Redox Chemistry of Pyrrole-2-aldimine Chelates", American Chemical Society 32nd Northwest Regional Meeting, Portland, OR, 1977, INOR-130.

7. A.W. Addison, C. Landee, M. Wicholas* and R.D. Willett, "Synthesis and Magnetic Properties of Exchange-Coupled Binuclear Copper(II) Macrocyclic Complexes", XIXth. International Coordination Chemistry Conference, Prague, Czechoslovakia, 1978.

8. A.W. Addison, M. Cairns, D.H. Dolphin, N.P. Farrell, B.R. James*, A.J. Murray, D.R. Paulson and J. Thornback, "Reaction of Small Gas Molecules with Ruthenium Complexes of Porphyrins, Phthalocyanines, and Other Related Macrocycles", XIXth. International Coordination Chemistry Conference, Prague, Czechoslovakia, 1978.

9. A.W. Addison, J.P. Barnier, V. Gujral, Y. Hoyano, S. Huizinga and L. Weiler*, "The Design of New Organic Electron Acceptors", NATO ARI Conference, Les Arcs, France, 1978.

10. A.W. Addison*, K.A. Canella and P.L. Dougherty, "Coelomic Respiratory Proteins of Some Marine Invertebrates", American Chemical Society 180th National Meeting and 2nd North American Chemical Congress, Las Vegas, NV, Fall 1980, BIOL-203.

11. A.W. Addison* and L.K. Thompson, "Trigonal Copper(II) Complexes With Biomimetic Donors", American Chemical Society 180th National Meeting and 2nd North American Chemical Congress, Las Vegas, NV Fall 1980, INOR-040 ("Best Poster in Session").

12. A.W. Addison and P.L. Dougherty*, "The Coelomic Respiratory Protein of *Siphonosoma cumanense*" American Chemical Society Mid-Atlantic Regional Meeting, Washington, DC., Jan. 1981, #232.

13. A.W. Addison and S. Burman*, "Redox and Coordination Chemistry of *Glycera americana* Hemoglobin", American Chemical Society Mid-Atlantic Regional Meeting, Newark, DE, April 1982.

14. A.W. Addison, "Aspects of the Redox Chemistry of Copper." (**Invited Research Paper**), International Conference on Inorganic and Biological Perspectives in Copper Chemistry, Albany, NY, June 1982.

15. A.W. Addison, B. Watts and M. Wicholas*, "Synthesis and Properties of Square Pyramidal Adducts of Ni(cyclops)$^{+}$" XXIIIrd. International Coordination Chemistry Conference, Budapest, Hungary, August 1982.

16. A.W. Addison, G. de Fotis and E. Sinn*, "Copper(II) 2,5,8-Trithianonane-1,9-dicarboxylate Hydrate: a Linear Chain with Alternating $d_{x^2-y^2}$ - d_{z^2} Spin Coupling", American Chemical Society 185th. National Meeting, Seattle, WA, Spring 1983, INOR-104.

17. A.W. Addison and T.N. Rao*, "Mercaptide Complexes of Copper(II)", American Chemical Society Mid-Atlantic Regional Meeting, The Poconos, PA, April 1983, #241.

18. A. W. Addison, "A Simple ESR Approach to Determining the Degree of Tetrahedral Distortion in Copper(II) Complexes" American Chemical Society 186th. National Meeting, Washington, DC, Fall 1983, INOR-087.

19. A. W. Addison*, P. J. Burke, T.N. Rao, K. Henrick and E. Sinn, "Structural Chemistry and Spectroscopy of Copper(II) Complexes of the Tridentate Thioether Ligand Bis(2-benzimidazylethyl)-sulfide", American Chemical Society 186th. National Meeting, Washington, DC, Fall 1983, INOR-090.

20. A. W. Addison*, T.N. Rao, J. Reedijk, J. van Rijn and G.C. Verschoor, "Copper(II) Complexes of the Tetradentate Ligand 1,7-Bis(*N*-methylbenzimidazol-2-yl)-2,6-dithiaheptane", American Chemical Society 186th. National Meeting, Washington, DC, Fall 1983, INOR-346.

21. A. W. Addison, "Structural Indices and ESR Correlations For Copper(II) Centres", (**Invited Symposium Address**) American Chemical Society Mid-Atlantic Regional Meeting, Newark NJ, May 1984, 171.

22. K. van Rijn*, A. W. Addison, W. L. Driessen and J. Reedijk, "Copper Chelates With Imidazole-Containing

Ligands as Models for Type-I and Type-III Copper Proteins", International Conference on Inorganic and Biological Perspectives in Copper Chemistry, Albany NY, July 1984.

23. A.W. Addison*, M. Palaniandavar, T.N. Rao and P.J. Burke, "Structural, Spectroscopic and Redox Studies of Some Five- and Six-Coordinate Copper(II) Complexes", International Conference on Inorganic and Biological Perspectives in Copper Chemistry, Albany NY, July 1984.

24. A.W. Addison* and M. Palaniandavar; "Synthesis and Electron-Transfer Properties of Copper(II) Complexes of Multidentate Benzimidazole-Thioether Ligands"; American Chemical Society 188th. National Meeting, Philadelphia, PA, Fall 1984, INOR-068.

25. A.W. Addison*, M. Palaniandavar and E. Sinn, "Aquobis(2,9-dimethyl-1:10-phenanthroline)-copper(II) Tetrafluoroborate Hydrate, $[Cu(Dmp)_2(OH_2)](BF_4)_2.H_2O$"; American Chemical Society 188th. National Meeting, Philadelphia PA, Fall 1984; INOR-258.

26. A.W. Addison, R.J. Butcher*, M. Palaniandavar and E. Sinn, "Structure, Redox Properties and Spectroscopy of a Copper Macrocycle"; American Chemical Society 188th. National Meeting, Philadelphia PA, Fall 1984; INOR-259.

27. A.W. Addison* and J.J. Stephanos, "Nitrosyliron(III) Hemoglobin: Autoreduction and Spectroscopy", Second International Conference on Bioinorganic Chemistry (ICBIC-2), Albufeira, Portugal, April 1985.

28. A.W. Addison*, T.N. Rao, M. Palaniandavar, J. Reedijk and J. van Rijn, "Electron Transfer by Benzimidazole-Thioether "Blue" Copper(II) Models", American Chemical Society Mid-Atlantic Regional Meeting, Baltimore MD, September 1986, #136.

28. A.W. Addison and J.J. Stephanos*, "Thermochromism of Monomeric Heme Proteins", American Chemical Society Mid-Atlantic Regional Meeting, Baltimore MD, September 1986, #137.

29. A.W. Addison, S. Burman, C.G. Wahlgren*, E. Sinn and T. Brewer, "Iron(II) and Iron(III) Complexes of some Heterocyclic Diamines and Triamines", American Chemical Society Mid-Atlantic Regional Meeting, Baltimore MD, September 1986, #138.

30. A.W. Addison and J.J. Stephanos*, "Aspects of the Chemistry of *Elephas maximus* Hemoglobin", 21st. American Chemical Society Mid-Atlantic Regional Meeting, Stockton NJ, May 1987, #120.

31. A.W. Addison* and J.J. Stephanos, "Spin- and Other Equilibria of Monomeric Heme Protein Derivatives", Third International Conference on Bioinorganic Chemistry (ICBIC-3), Noordwijkerhout, The Netherlands, July 1987, I-22

32. T.J. DiFeo*, A.W. Addison and J.J. Stephanos, "Column Chromatography Studies of Hemoglobin from the Bloodworm *Glycera dibranchiata* ". 22nd. American Chemical Society Mid-Atlantic Regional Meeting, Millersville PA, May 1988, Abstract #35.

33. A.W. Addison*, R.A. Butcher, M.R. Cain, M. Palaniandavar and C.G. Wahlgren, "Structural Studies of Metal Complexes with Dipicolylamine". 22nd. American Chemical Society Mid-Atlantic Regional Meeting, Millersville PA, May 1988, Abstract #198.

34. M.R. McDevitt and A.W. Addison*, "Iron(III) Complexes as Models for the Specific Iron Binding Site of Lactoferrin." Third North American (ACS/CIC/SQM) Chemical Congress, Toronto, Canada, June 1988, Abstract #15.

35. R.J. Butcher*, A.W. Addison, C.G. Wahlgren, M. Palaniandavar and E. Sinn, "Structure and Properties of Iron(II) and Copper(II) Complexes of Dipicolylamine", Third North American (ACS/CIC/ SQM) Chemical Congress, Toronto, Canada, June 1988, Abstract #108.

36. A.W. Addison*, J.J. Stephanos, P. Welch and C.I. Furtek, "Drug-Protein Interactions: Two-Site Binding of Heterocyclic and Anionic Ligands to a Monomeric Hemoglobin." Third North American (ACS/CIC/SQM) Chemical Congress, Toronto, Canada, June 1988, Abstract #473.

37. Y.Ru* & A.W. Addison, "Phenanthroline and Benzimidazole Derivatives of Ruthenium(II) Complexes", Sigma Xi Research Symposium, Drexel University, Philadelphia PA, April 1989.

38. T.J. DiFeo*& A.W. Addison, "Active Site Diversity and Heme Rotational Disorder in Monomeric Hemoglobin", Sigma Xi Research Symposium, Drexel University, Philadelphia PA, April 1989.

39. T.J. DiFeo*, A.W. Addison & T. Kumosinski, "The Extracellular Erythrocruorin from *Cirriformia tentaculata*", 23rd. American Chemical Society Mid-Atlantic Regional Meeting, Cherry Hill NJ, May 1989, Abstract #30.

40. T.J. DiFeo* & A.W. Addison, "Active Site Diversity and Heme Rotational Disorder in a Monomeric Hemoglobin", 23rd. American Chemical Society Mid-Atlantic Regional Meeting, Cherry Hill NJ, May 1989, Abstract #90.

41. A.W. Addison & Y. Ru*, "The UV-Visible and Fluorescence Spectra of some Ruthenium Complexes", 23rd. American Chemical Society Mid-Atlantic Regional Meeting, Cherry Hill NJ, May 1989, Abstract #95.

42. A.W. Addison*, Y. Ru & M. R. McDevitt, "Ruthenium Chelates of 2,6-Bis(benzimidazol-2-yl)-pyridine and Related Benzimidazolyl- and Pyridyl-Ligands: Energy Transfer and Solvent Effects on Electron Transfer Properties", XXVIIth International Coordination Chemistry Conference, Queensland, June 1989, Abstract #W54.

43. A.W. Addison, L.L. Borer & E. Sinn*, "Small Molecule Models of Copper(II) Proteins, Especially Those Involving Cu-S Bonding", 1989 Pacific Basin Conference, Honolulu, Hawaii, Dec. 1989, Abstract #128.

44. Y. Ru* & A.W. Addison, "Synthesis, Properties and Substitution Reactions of [Ru(Pdto)(CH_3CN)Cl](PF_6): *Cis*- and *Trans*-Isomer Characteristics Compared", 24th. American Chemical Society Mid-Atlantic Regional Meeting, NJ, May 1990, Abstract #68.

45. T.J. DiFeo* & A.W. Addison, "Applications of Analytical Chemistry in the Investigation of Heme Proteins", 24th. American Chemical Society Mid-Atlantic Regional Meeting, NJ, May 1990, Abstract #163.

46. A.W. Addison*, S.A. Farina & M. Palaniandavar, Effects of Donor-Atom Type and Ligand Framework on the Electron-Transfer Properties of Copper(II)/Copper(I) Couples", American Chemical Society 200th. National Meeting, Washington, DC, August 1990. Abstract #446.

47. Y. Ru, M.R. McDevitt* and A.W. Addison, "Redox Properties of Some Group-8 Complexes with Benzimidazole- and Pyridine-Derived Ligands", American Chemical Society 200th. National Meeting, Washington, DC, August 1990. Abstract #480.

48. J.J. Stephanos, A.W. Addison* & T.J. DiFeo, "Cooperative Binding of Xanthines and □-Donors to a Monomeric Hemoglobin" Proceedings of the IEEE, 12, 1677-1678 [1990] (12th. International Conference, the IEEE Society for Engineering in Medicine and Biology, Philadelphia PA, Nov. 1990, Ed. P. Pedersen & B. Onaral)

49. A. W. Addison, T. N. Rao, M. R. McDevitt, J. P. Jasinski*, R. Y. Pozdniakov, R. J. Butcher* & E. Sinn, "An N_2S_2-Copper(II) Macrocycle and a Pentacoordinate CuN_3OS Pseudothiolate Complex Compared with their O-Donor Analogues"; American Chemical Society 202nd. National Meeting, New York, NY, August 1991; INOR-262.

50. A. W. Addison*, V. V. Pavlishchuk and R. J. Butcher, "Nickel(II) Complexes with Macrocyclic and Quasimacrocyclic Dithiadioximines", American Chemical Society 202nd. National Meeting, Washington, DC, August 1992; INOR-073.

51. S. A. Farina, J. J. Stephanos and A. W. Addison, "Response of Ligand Affinities to Changes in Heme Pocket Environment", *Proceedings*, 1993 Symposium on Protein Structure & Function, State College, PA, 1993, pp123.

52. S. A. Farina, J. J. Stephanos and A. W. Addison, "Active Site Investigation of *Riftia pachyptila* Extracellular Hemoglobin" 28th. American Chemical Society Mid-Atlantic Regional Meeting, MD, May 1994, Abstract #85.

53. A. W. Addison*, K. K. Nanda, E. Sinn & L. K. Thompson, "Ferro- and Antiferromagnetic Chains of Cu(II) Thioether Carboxylates" 30th. American Chemical Society Mid-Atlantic Regional Meeting, Villanova PA, May 1996, Abstract #350.

54. A. W. Addison*, K. K. Nanda, N. Paterson, U. Sakaguchi, E. Sinn & L. K. Thompson, "Ferro- and Antiferromagnetic Chains of Cu(II) Thioether Carboxylates" 31st International Conference on Coordination Chemistry, Vancouver, Canada, Aug. 1996, Abstract 5L22.

55. V. V. Pavlishchuk*, S. V. Kolitolov, A. W. Addison & E. Sinn, "Crystal and molecular structure and spectroscopic and redox properties of $NiL(H_2O)_2(ClO_4)_2$ [L = 1,8-bis(2-pyridyl)-3,6-dithiaoctane]." 14th Ukrainian Conference on Inorganic Chemistry, Kiev, The Ukraine, September 1996, #116.

56. A. W. Addison, K. K. Nanda, N. Paterson, U. Sakaguchi, E. Sinn* & L. K. Thompson, "Copper(II) and Nickel(II) Complexes of Anionic Dinucleating Macrocycles", American Chemical Society 214th. National Meeting, Las Vegas, NV, September 1997. Abstract #115.

57. J. G. Gilbert* & A. W. Addison, "Synthesis, Redox & Spectroscopic Properties of Copper(II) and Nickel(II) Complexes with Pentadentate Thioether Ligands" 32nd. American Chemical Society Mid-Atlantic Regional Meeting, Madison NJ, May 1999, Abstract #81.

58. E. Sinn*, V.V. Pavlishchuk, A. W. Addison, R. J. Butcher & S. V. Kolotilov, "Synthesis, Structural and Physicochemical Features of some Ni(II) Complexes with Sulfur & Nitrogen Donors", American Chemical Society National Meeting, New Orleans LA, Aug. 1999, Abstract #564.

59. N. P. Stahl*, M. J. Prushan, A. W. Addison, R. J. Butcher & L. K. Thompson, "Copper dipyridyliminoiso-indoline oxalate: a molecular antiferromagnetic material", Drexel University/Medical College of Pennsylvania/Hahnemann University Research Conference, Philadelphia PA, Spring 1999.

60. M. J. Prushan*, A. W. Addison & R. J. Butcher, "Pentadentate thioether-oxime macrocyclic and quasi-macrocyclic complexes of copper(II)", Drexel University/Medical College of Pennsylvania/Hahnemann University Research Conference, Philadelphia PA, Spring 1999.

61. S.V. Kolotilov*, V.V. Pavlishchuk, R. J. Butcher, and A.W. Addison, "Synthesis, Structure, Spectrum and Characteristics of the Complex of Nickel(II) with the Triazaheptane- 2,9-Derivative of 4,7-Dithiadecane.", Ukrainian National Conference on Contemporary Problems in Inorganic Chemistry, Kiev, Ukraine, October 1999.

62. I.A. Kovia*, V. V. Pavlishchuk, S. Trofimenko, E.A. Honecuk, J. Reedijk, G. van Albada, A. W. Addison, "Synthesis, Spectral and Magnetic Properties of a Polyhexacyanoferrate(III)." Ukrainian National Conference on Contemporary Problems in Inorganic Chemistry, Kiev, Ukraine, October 1999.

63. K.C. Ravrylenko*, L. Thompson, A.W. Addison and V.V. Pavlishchuk, "Synthesis, Spectral, and Magnetic Properties of Novel Trinuclear Carboxylate Complexes of Iron(III) and Chromium(III).", Ukrainian National

Conference on Contemporary Problems in Inorganic Chemistry, Kiev, Ukraine, October 1999.

64. M.J. Prushan*, A.W. Addison, S.V. Kolotilov, V.V. Pavlishchuk, R.J. Butcher and L.K. Thompson, "Multinuclear Thioether Oxime Complexes of Cu(II) and Ni(II), ACS 33rd Mid-Atlantic Regional Meeting, Newark, DE, May 2000, Abstract #238.

65. J.G. Gilbert*, A.W. Addison, R.J. Butcher and Y. Nazarenko, "Nickel(II) and Copper(II) Chelates of Multidentate Benzimidazole Derived Ligands", ACS 33rd Mid-Atlantic Regional Meeting, Newark, DE, May 2000 Abstract #237.

66. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison, R. J. Butcher and E. Sinn, "Structures, electronic spectra and redox properties of new nickel(II) complexes with hexadentate S_2N_4, S_2N_3O and S_4N_2 ligands", 1st Chianti Electrochemistry Meeting, "Metal-Containing Molecules" (MM - 1st ChEM), Siena, Italy, July-Aug. 2000.

67. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison, R. J. Butcher and E. Sinn, "The Redox Behaviour of Mono- and Trinuclear Ni(II) Complexes with S,N Ligands in Non-Aqueous Solutions."1st Chianti Electrochemistry Meeting, "Metal-Containing Molecules" (MM - 1st ChEM), Siena, Italy, July-Aug. 2000.

68. J. G. Gilbert*, A. W. Addison, R. J. Butcher, and E. Sinn, "Study on the effect of ligand structures on the spectral and electrochemical properties of new copper(II) and nickel(II) complexes", American Chemical Society 220th. National Meeting, Washington DC, August 2000. Abstract #94.

69. S. Cheng*, S. Li, A. W. Addison, F. Papadimitrakopoulos, B. Hsieh and Y. Wei, "Synthesis and characterization of aniline derivatives modified 8-hydroxylquinoline ligands and their metal complexes", American Chemical Society 220th. National Meeting, Washington DC, August 2000. Abstract #229; S. Cheng, S. Li, A. W. Addison, F. Papadimitrakopoulos, B. R. Hsieh and Y. Wei*; *Polymer and Materials Science and Engineering*, **83**, 274-275 (2000).

70. M. J. Prushan*, A. W. Addison, V. V. Pavlishchuk, S. V. Kolotilov, G. M. Shalhoub, P. T. Downing, R. J. Butcher and L. K. Thompson, "Thioether-oxime Ni(II) triangles: Effects of linking groups on magnetic and electronic properties", American Chemical Society 220th. National Meeting, Washington DC, August 2000. Abstract #96.

71. V.V. Pavlishchuk*, S.V. Kolitolov, A.W. Addison, M.J. Prushan, R. J. Butcher, L. K. Thompson, D. Schollmeyer and E.A. Goreshnik, "Tri- and Tetranuclear Complexes with Polydentate Ligands Bearing Oxime Groups." Euresco Conference on Inorganic Chemistry: "Design and Properties of Low Nuclearity Metal Complexes", San Feliu de Guixols, Spain, September 2000.

72. M. J. Prushan*, A. W. Addison, S. V. Kolotilov, V. V. Pavlishchuk, R. J. Butcher and L. K. Thompson, "A New Class of Scorpionate Ligands and Related Nickel(II) Chameleon Complexes of Thioether-Oximates". American Chemical Society Philadelphia Section Graduate Research Day, Philadelphia, Jan. 2000.

73. A. M. Falat*, A W. Addison & R. J. Butcher, "Comparison of the Effects of Replacing Pyridyl and Benzimidazole Ligands with Substututed Pyrazoles on the Electrochemistry of Copper(II)". American Chemical Society Philadelphia Section Graduate Research Day, Philadelphia, Jan. 2000, #32.

74: A.W. Addison*, M.J. Prushan, V.V. Pavlishchuk, S.V. Kolotilov, R.J. Butcher, E. Sinn & L.K. Thompson, "Metal-Promoted Coupling of Oxime with Nitrile". ACS 34th Mid-Atlantic Regional Meeting, Towson, MD, May 2001 , Abstract #152.

75. J.G. Gilbert, A.W. Addison, D. Titus, P. Swaminathan & R.J. Butcher, "Copper Complexes with Unusually Large Chelate Rings". ACS 34th Mid-Atlantic Regional Meeting, Towson, MD, May 2001 , Abstract #227.

76. A.M. Falat, A.W. Addison & R.J. Butcher, "Comparison of the Effect of Different Substituents on Pyrazole-Derived Ligands in Copper(II) Complexes". ACS 34th Mid-Atlantic Regional Meeting, Towson, MD, May

2001 , Abstract #228.

77. A.W. Addison, M.J. Prushan*, S.V. Kolotilov, V.V. Pavlishchuk, R.J. Butcher & L.K. Thompson, "Mono- and Trinuclear Nickel(II) Thioether-Oxime Complexes". ACS 34th Mid-Atlantic Regional Meeting, Towson, MD, May 2001 , Abstract #229.

78. S.V. Kolotilov*, A.W. Addison, M.J. Prushan, D. Schollmeyer, T. Weyhermüller, L.K. Thompson, E.A. Goreshnik, V.V. Pavlishchuk, "Bi- and tetranuclear Ni(II) complexes with butanedione-monoxime and polydentate amines." XVth Ukrainian Conference on Inorganic Chemistrywith Foreign Participation. Kiev, 3-7 September, 2001, pp 12.

79. S. V. Kolotilov*, V. V. Pavlishchuk, A. W. Addison, M. J. Prushan, D. Schollmeyer, T. Weyhermuller, L. K. Thompson, E. A. Goreshnik, "Ferro- and Antiferromagnetic Interaction in Bi- and Tetranuclear Nickel(II) Complexes with Oxime-Contaning Ligands", 1st Russian Conference on High-Spin Molecules and Molecular Ferromagnets, Moscow, Russia, March 2002.

80. A.W. Addison, M. Vaidyanathan*, R.J. Butcher, E. Sinn & L. K. Thompson, "Strongly Antiferromagnetically Coupled Dimeric Copper(II) Complexes of Tripodal Ligands with Oximate Bridging" ACS 36th Mid-Atlantic Regional Meeting, Princeton, NJ, May 2003, Abstract #290.

81. Y.V. Minin, S.V. Kolotilov, A.W. Addison, S. Trofimenko & V.V. Pavlishchuk*, "Mechanochemical synthesis, spectra and magnetic properties of tris(pyrazolyl)borate complexes of Mn(II), Co(II) & Ni(II)". 21st Chugaev International Conference on Coordination Chemistry, Kiev, Ukraine, June 2003.

82. A.V. Yakavenko, S.V. Kolotilov, A.W. Addison, S. Trofimenko & V.V. Pavlishchuk*, "Synthesis, spectra and redox properties of nickel(II), cobalt(II) & manganese(II) complexes with 4-hydroxy-3,5-bis(*t*-butyl)benzoic acid". 21st Chugaev International Conference on Coordination Chemistry, Kiev, Ukraine, June 2003.

83. A.W. Addison*, M. Vaidyanathan, R.J. Butcher, E. Sinn & L. K. Thompson, "Strongly Antiferromagnetically Coupled Copper(II) Dimers of Tripodal Oximate Ligands: American Chemical Society 226th. National Meeting, New Yotk, NY, Sept. 2003. Abstract #188.

84. A.W. Addison*, J.W. Bennett, R.K. Bowman, R.J. Butcher, A.Y. Nazarenko, M.J. Prushan, N.G. Stahl & L.K. Thompson, "Di- and Trinuclear Copper(II) Complexes of Some New Isoindoline Ligands", *American Chemical Society 228th National Meeting*, Philadelphia, August 2004. Abstract #267; *Chemical Abstracts* **2004**, 661440.

85. A. W. Addison*, V. V. Pavlishchuk, R. J. Butcher, L. K. Thompson, Z. Homonnay & M. J. Prushan, "The Hexakis(thiocyanato)ferrate(III) Ion: a Coordination Chemistry Classic Reveals an Interesting Geometry Pattern for the Thiocyanate Ligands", ACS 37th Mid-Atlantic Regional Meeting, New Brunswick, NJ, May 2005, Abstract #350.

86. M. J. Prushan*, A. W. Addison, R. J. Butcher & L. K. Thompson, "Copper(II) Complexes of Tetradentate Thioether-Oxime Ligands" ACS 37th Mid-Atlantic Regional Meeting, New Brunswick, NJ, May 2005, Abstract #356.

87. W. J. Erb*, K. G. Owens, G. T. Reeves, A. W. Addison, "From the Bench To Inside The Instrument: Utilizing MALD/I TOFMS To Explore Ruthenium Complex Reactions"; 53rd Annual American Society for Mass Spectrometry Conference, San Antonio, Tx., June 2005; *Journal of the American Society for Mass Spectrometry*, **16**(5/S1), (2005) S14.

88. M.J. Prushan*, A.W. Addison, V.V. Pavlishchuk, M. Zeller, A.D. Hunter, O. Waldmann, R.J. Butcher & L.K. Thompson, "Dimers, trimers and hexamers: Nickel(II) thioether oxime complexes", *American Chemical Society 231st National Meeting*, Atlanta Ga., March 2006. Abstract #186 (poster).

89. G.T. Reeves*, A. W. Addison, R.J. Butcher, S. Elshani, A.M. Falat, A.D. Hunter, V.V. Pavlishchuk & M.

Zeller, “Synthesis, characterisation & comparison of ruthenium(II) complexes of tetradentate thioether- and pyridine-containing ligands and bidentate nitrogen coligands” ACS 38th Mid-Atlantic Regional Meeting, Hershey, PA, June 2006, Abstract #279.

90. D. Dragancea, A. W. Addison*, A.D. Hunter, L.K. Thompson & M. Zeller, “Synthesis & Structures of new binuclear copper(II) complexes with bis(3-alkoxy-2-hydroxybenzaldehyde)thiocarbo-hydrazones” ACS 38th Mid-Atlantic Regional Meeting, Hershey, PA, June 2006, Abstract #282. ACS *Chemical Abstracts* **2006**: 603354.

91. E. M. Beard, A. W Addison*, M. Zeller, A. J. Milewski, S. Lofland, L. E. Crist, L. M. Wolf & A. D. Hunter, “Some bis(azacycle)isoindolines and mono-, di- and trinuclear complexes of nickel(II) derived from them”, American Chemical Society 232nd National Meeting, San Francisco Ca., September 2006, Abstract INOR-369. ACS *Chemical Abstracts* **2006**: 860761.

92. D. Dragancea*, M. Revenco, A.W. Addison, A.D. Hunter, L.K. Thompson, M. Zeller & S. Shova, "New magnetic materials on the base of bis(salicylaldehyde)thiocarbohydrazone copper(II) complexes". Third International Conference on Materials Science and Condensed Matter Physics, Chisinau, Moldova, Oct. 2006: Paper MSC.64P, p. 119.

93. A.W. Addison*, G.T. Reeves, R.J. Butcher, A.D. Hunter, V.V. Pavlishchuk & M. Zeller, “Synthesis, characterization and comparison of ruthenium(II) complexes of tetradentate thioether- and pyridine-containing ligands and bidentate nitrogen coligands”, 233rd ACS National Meeting, Chicago, IL, March 2007, Abstract INOR-810. ACS *Chemical Abstracts* **2007**:294936.

94. G. T. Reeves*, A. W. Addison, V. V. Pavlishchuk & M. Zeller, “Nickel(II), zinc(II) and ruthenium(II) complexes with tetradentate aminopyridine ligands”, American Chemical Society 39th Mid-Atlantic Regional Meeting, Collegeville, PA, May 2007, Abstract #164. ACS *Chemical Abstracts* **2007**: 520593.

95. D. Dragancea*, A. W. Addison, A. D. Hunter, M. Zeller & L. K. Thompson, “Synthesis and crystal structure of a new copper(II) complex with 1,5-bis(*o*-aminobenzaldehyde)thiocarbo-hydrazone”, Abstracts, XXIIIrd International Chugaev Conference, Odessa, Ukraine, Sept. **2007**.

96. S.V. Kolotilov*, O. Cador, K.S. Gavrilenko, A. Addison, L.K. Thompson, L. Ouahab & V.V. Pavlishchuk, “Magnetism and Sorption Properties of Porous Coordination Polymers Based on Polynuclear Building Blocks” Abstracts, XXIIIrd International Chugaev Conference, Odessa, Ukraine, Sept. 2007.

97. A.W. Addison*, L.K. Thompson, V.V. Pavlishchuk, S.V. Kolotilov, D. Schollmeyer & V. Golub, “Oligometallic systems derived from di- and trinuclear copper(II) amido-oximate complexes: Synthesis, structure and magnetic properties” 235th ACS National Meeting, New Orleans, LA, April 2008. Abstract INOR-641. ACS *Chemical Abstracts* **2008**: 389109.

98. M. A. O'Connor* & A. W. Addison, “Preparation of Some Novel Dithioether-Diketones and Chelating Derivatives of Them” American Chemical Society 40th Mid-Atlantic Regional Meeting, Queens, NY, May 2008, Abstract #288. ACS *Chemical Abstracts* **2008**: 588006.

99. G. T. Reeves*, A. W. Addison, V. V. Pavlishchuk, A.D. Hunter, M. Zeller, “Ruthenium(II) Complexes of Some Tripodal Amine Ligands” American Chemical Society 40th Mid-Atlantic Regional Meeting, Queens, NY, May 2008, Abstract #291. ACS *Chemical Abstracts* **2008**: 588009

100. M.A. O’Connor* & A.W. Addison, “Preparation of some metal complexes using novel dithioether-diketone derivatives”. 236th ACS National Meeting, Philadelphia PA, August 2008. Abstract INOR-210. ACS *Chemical Abstracts* **2008**: 952861.

101. G.T. Reeves*, A.W. Addison, V.V. Pavlishchuk, A.D. Hunter & M. Zeller, "There's something dangling on my ruthenium". 236th ACS National Meeting, Philadelphia PA, August 2008. Abstract INOR-561. ACS *Chemical Abstracts* **2008**: 953210.

102. D. Dragancea*, A. W. Addison, M. J. Prushan, M. Zeller, L. K. Thompson, M. D. Revenco & A. D. Hunter "Ferro-and antiferromagnetic interactions in a new thiocarbohydrazone copper(II) system", The 11th International Conference on Molecule-based Magnets. Convitto della Calza, Florence, Italy, Sept. 2008; P4-3, Session-2.

103. D. Dragancea*, A. W. Addison, A. D. Hunter, L. K. Thompson, M. Zeller & M. Revenco, "Copper(II) complexes with bis-thiocarbohydrazone ligands: the effect of ligand substituents on Cu-azine-Cu moiety." XVIth International Winter School on Inorganic Chemistry. Karpacz, Poland, Dec. 2008.

104. G. T. Reeves*, A. W. Addison, V.V. Pavlishchuk, M. Zeller. "Ruthenium(II) complexes of tetradentate polypyridyl thioether ligands." National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE), 2008 Northeast Regional Meeting, St. Francis College, Brooklyn Heights, NY, Nov. 2008.

105. E.A. Mikhalyova, A.W Addison*, S.V. Kolotilov, V.V. Pavlishchuk, O. Cador, M. Zeller, W.G. Dougherty Jr., L. Ouahab, A.D. Hunter & S.N. Trofimenko, "Bridge modulation of superexchange in Ni(II/Co(II) tris(pyrazolyl)borates – oxalate *vs*. dithiooxamidate" 237th ACS National Meeting, Salt Lake City UT, March 2009. Abstract INOR-169. ACS *Chemical Abstracts* **2009:** 304733.

106. V. Mathrubootham, A.W. Addison*, K.T. Holman, L.K. Thompson& E. Sinn, "It's a dinuclear copper(II) complex which mimics proton transfer in the GOase active site" 238th ACS National Meeting, Washington, DC, August 2009. Abstract INOR-144. ACS *Chemical Abstracts* **2009:** 983452.

107. M.A. O'Connor* & A.W. Addison, "Preparation and potentiometric study of some nickel and copper complexes using thiocarbohydrazone ligands" 238th ACS National Meeting, Washington, DC, August 2009. Abstract INOR-809. ACS *Chemical Abstracts* **2009:** 984185.

108. A.V. Pavlishchuk*, S.V. Kolotilov, M. Zeller, O. V. Shvets, L. K. Thompson, I. O. Fritsky, & A. W. Addison, "Magnetic and Sorption Properties of Polynuclear Complexes Based on Pentacopper Metallacrown Unit". Fifth International Symposium on Molecular Materials: Electronics, Photonics and Spintronics. Université de Rennes-1, Rennes, France, October 2009.

109. M. A. O'Connor* & A. W. Addison, "Preparation and Investigation of Several Schiff Base Ligands and Complexes." 239th ACS National Meeting, San Francisco, CA, March 20-25, 2010. Abstract INORG-843, *Chemical Abstracts* **2010**, 343862.

110. I. Sasimovich*, A. W. Addison, R. I. Bello, A. Lam, M. Zeller & A.D. Hunter, "Copper and cobalt bis(pyridylimino)isoindolinates with irregular geometries" 239th ACS National Meeting, San Francisco, CA, March 2010, INOR-964, *Chemical Abstracts* **2010**, 344145.

111. D. Dragancea, A. W. Addison*, M. Zeller, L.K. Thompson & A.D. Hunter, "Dinuclear copper(II) complexes of some substituted bis(salicylaldehyde)thiocarbohydrazones". 239th ACS National Meeting, San Francisco, CA, March 2010, INOR-973, *Chemical Abstracts* **2010**, 344154.

112. A.W. Addison* & Thuong H. Tran, "Departmental Hirsch Index values scale linearly with Chemistry department size", 41st ACS Mid-Atlantic Regional Meeting, Wilmington DE, April 2010; Abstract-306, *Chemical Abstracts* **2010**, 420927.

113. A.V. Pavlishchuk, S.V. Kolotilov, M. Zeller, O.V. Shvets, I.O. Fritsky & A.W. Addison, "Sorption Properties of Nanosized Assemblies Based on Polynuclear Copper(II) 12-Metallacrown-4 Complexes".

International Symposium on Modern Problems of Surface Chemistry and Physics, Kiev, Ukraine, May 2010; Abstract P104. [www.isc.gov.ua/downloads/Programme_Int_Symp_ISC_engl_2010_II.pdf]

114. M.A. O'Connor* & A.W. Addison, "Effects of chirality on Schiff base ligands and complexes", 240th ACS National Meeting, Boston, MA, Aug. 2010, Abstract INOR-160, *Chemical Abstracts* **2010**, 1010977.

115. Anna V Pavlishchuk, Sergey V. Kolotilov, Matthias Zeller, Laurence K. Thompson, Igor O. Fritsky, Anthony W. Addison* & Allen D. Hunter, **"**Supramolecular architectures and coordination polymers based on metallacrown complexes: Magnetic and sorption properties" 240th ACS National Meeting, Boston, MA, Aug. 2010, Abstract INOR-525, *Chemical Abstracts* **2010**, 1011342.

116. A. V. Pavlishchuk*, S. V. Kolotilov, M. Zeller, I. O. Fritsky & A. W. Addison "Supramolecular assemblies and coordination polymers based on homo- and heterometallic metallacrown building blocks" Third International Summer School "Supramolecular Systems in Chemistry and Biology" September 2010, Lviv (Ukraine)

117. I. Sasimovich*, A. W. Addison, M. Zeller, D. L. Tierney, E. Sinn, S. Lofland, C. Schmiesing & A. D. Hunter, "Coordination chemistry of cobalt and copper bis(pyridylimino)isoindolinates: Synthesis, molecular structure, and magnetic properties". 241st ACS National Meeting, Anaheim, CA, March 2011, Abstract INOR-198, *Chemical Abstracts* **2011**, 337510.

118. A.W. Addison*, I. Sasimovich, E.M. Beard, A. Lam, M. Zeller, L.K. Thompson, S. Lofland, D. Dragancea, A.D. Hunter, C. Schmiesing & E. Sinn, "Isoindoline and Hydrazone Ligands leading to Antiferromagnetic Tri- and Tetranuclear Complexes". Invited Symposium on *Metallosupramolecular Assemblies - Structures, Properties and Applications*; the Canadian Society for Chemistry 94th Annual Conference, Montréal, Quebec, June 2011, abstract #1217.
http://abstracts.csc2011.ca/00002299.htm http://www.csc2011.ca/Program/invited_speakers.html

119. M. A. O'Connor*, A. W. Addison, M. Zeller & A. D. Hunter, "Synthesis and characterization of chiral Cu(II) and Ni(II) complexes with branched cyclic ligands". *243rd ACS National Meeting*, San Diego CA, March 2012. Abstract INOR-1148. ACS *Chemical Abstracts* **2012:** 393286.

120. K. R. Hess, A. W. Addison, M. Sharma, E. C. Duranza, M. Zeller, J. P. Jasinski & A. D. Hunter, "New heterocycles for metal complexation." American Chemical Society 43rd Mid-Atlantic Regional Meeting, Catonsville, MD, May/June 2012, Abstract #312. *Chemical Abstracts* **2012**, 773933.

121. M. A. O'Connor, A. W. Addison, M. Zeller & A. D. Hunter, "Some chiral copper(II) complexes of piperazine derivatives". American Chemical Society 43rd Mid-Atlantic Regional Meeting, Catonsville, MD, May/June 2012, Abstract #442. *Chemical Abstracts* **2012**, 774061.

122. M.A. O'Connor, A.W. Addison, M. Zeller, A.D. Hunter & L.K. Thompson, "Chiral and achiral Cu(II) and Ni(II) complexes with novel multidentate ligands", *244th ACS National Meeting & Exposition*, Philadelphia, PA, August 2012 ; Abstract #AEI-40. *Chemical Abstracts* **2012**, 1179693.

123. M. Nozari, A. W Addison & M. Zeller. "*N*-Functionalization of benzimidazole-derived chelating agents", *248th ACS National Meeting & Exposition*, San Francisco, CA, August 2014 ; Abstract #INOR-690. *Chemical Abstracts* **2014**, 1303793.

125 A.V. Pavlishchuk, S.V. Kolotilov S. V., M. Zeller, M. , O. Fritzky O., S. Lofland & A. Addison, "Structure, Sorption and Magnetism Properies of Supramolecular Coordination-Polymer Complexes Based on Heteropolynuclear Complexes of 15-Metallacrown-5", 13th Scientific Council of the NAS of Ukraine on the problems of "Inorganic Chemistry", Odessa, Ukraine, Sept. 2014.

126. E.A. Mihalëva, A.V. Yakovenko, M. Zeller, M.Kiskin, S. Yeremenko, A.W. Addison & V.V. Pavlishchuk, "Luminescence Characteristics of Trispyrazolylborato Complexes of Eu, Gd &Tb", 13th Scientific Council of

the NAS of Ukraine on the problems of "Inorganic Chemistry", Odessa, Ukraine, Sept. 2014.

127. M.Nozari, A.W. Addison, M. Zeller, J. J Sardroudi, S. Afshari, N. Johnson. "Synthesis, spectroscopic characterization, X-ray structure and DFT studies on 2,6-bis(*N'*-[9"-anthracylmethyl]benzimidazol-2'-yl)pyridine" *40th ACS Northeast Regional Meeting*, Ithaca, NY, June 2015, Abstract NERM 352, *Chemical Abstracts* **2015**, 1290546

128. A.W. Addison, E.A. Mikhalyova, V.V. Pavlishchuk, M. Zeller, A.V. Kandel, S.S. Smola & V.P. Dotsenko, "Effects of crystal structure details on the luminescence efficiency of some europium and terbium tris(pyrazolyl)borate complexes". 252nd ACS National Meeting, Philadelphia, PA, Aug. 2016, INOR-434. *Chemical Abstracts* (2016) 1351826.

129. M. Nozari, A.W. Addison, M. Zeller, G.T. Reeves, L.M. Wolf, L.E. Crist & K.R. Hess, "Synthesis of diverse azole-containing chelating agents". 252nd ACS National Meeting, Philadelphia, PA, Aug. 2016, INOR-504. *Chemical Abstracts* (2016) 1367463

130. M. Nozari, M. Monier & A.W. Addison, "Palladium ion-imprinted silane polymer", 252nd ACS National Meeting, Philadelphia, PA, Aug. 2016, PMSE-433. *Chemical Abstracts* (2016)1367952.

131. E.A. Mikhalyova, K.V. Borysova, M. Zeller, E.A. Goreshnik, M.A. Kiskin, A.W. Addison & V.V. Pavlishchuk, "Approaches for variation of luminescence characteristics of lanthanide coordination compounds"; XVIIIth International Symposium on Luminescence Spectrometry, Brest, France, June 2018, p.47.

132. V.V. Pavlishchuk, E.A. Mikhalyova, A.V. Pavlishchuk, M. Zeller, L. Carrella, E. Rentschler & A.W. Addison, "Single Molecular Magnet Behavior of Complexes Bearing $\{LnCu_5\}^{3+}$ metallamacrocyclic and Ln(III) tris(pyrazolyl)borates moieties". 7th European Conference on Molecular Magnetism 2019 (ECMM2019) September 2019, Università di Firenze. Abstract A89.

133. E.A. Mikhalyova, A.W. Addison, V.V. Pavlishchuk, M. Zeller, J.P. Jasinski, R.J. Butcher, L.M. Carrella, A.E. Sedykh, S.M. McGee, M.U. Kumke, K. Müller-Buschbaum, E. Rentschler, M. Frasso, C.J. Smith & A. Shi, "Tb^{3+} and Dy^{3+} complexes with tris(pyrazolyl)borate and oligo(β-diketonate) ligands: A new series of luminescent single-molecule magnets". 259th ACS National Meeting, Philadelphia, PA, March 22-26, 2020, INOR-0851. [https://DOI.org/10.1021/scimeetings.0c00382]

134. N.Talmaci, D. Dragancea*, S. Shova, M. Zeller & A.W. Addison, "Heterobimetallic potassium-dioxovanadium(V) carbo- and thiocarbohydrazone-based coordination networks". V12, the 12th International Vanadium Symposium, Limassol, Cyprus, 3-5 Nov. 2021. http://vanadium12.com/

B: Instructional Publications:

1. A.W. Addison, "Calorimetric Determination of Heat of Neutralization", (Undergraduate Laboratory Experiment) Drexel University, 8pp, 1983-7.

2. A.W. Addison, "Metals and Nonmetals: a Laboratory Comparison", (Undergraduate Laboratory Experiment) Drexel University, 11pp, 1984-7.

3. A.W. Addison, "Synthesis and Spectra of Aquapentaamminecobalt(III) Sulfate and its Reaction Products", (Undergraduate Laboratory Experiment) Drexel University, 10pp, 1984-7.

4. A.W. Addison, "Metal Ion Electrochemical Cells", (Undergraduate Laboratory Experiment) Drexel University, 10pp, 1985-7.

5. E.T. Cutler and A.W. Addison, "Separation of Organic Compounds", (Undergraduate Laboratory Experiment) Drexel University, 10pp, 1985, 1986.

6. S. Solomon and A.W. Addison, "Determination of Lactose in Milk" (Undergraduate Laboratory Experiment)

Drexel University, 5pp, 1986, 1987.

7. A.W. Addison, "Synthesis of a Coordination Complex and its Analysis by Redox Titrimetry", (Undergraduate Laboratory Experiment) Drexel University, 11pp., 1986, 1987.

8. A.W. Addison, S. Solomon and J. Scattolini, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 115pp, 1987.

9. A.W. Addison, "Reaction Thermodynamics from Cell Potential", (Undergraduate Laboratory Experiment) Drexel University, 4pp, 1986, 1988, 1989, 1990.

10. A.W. Addison, S. Nagy, S. Solomon and J. Scattolini, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 115pp, 2nd. Edn., 1988.

11. A.W. Addison & T.J. DiFeo, "Enzyme Kinetics", (Undergraduate Laboratory Experiment) Drexel University, 3pp, 1989, 1990.

12. T.J. DiFeo & A.W. Addison, "Heat Capacity", (Undergraduate Laboratory Experiment) Drexel University, 3pp, 1988, 1989, 1990.

13. T.J. DiFeo & A.W. Addison, "Binding of Small Molecules to Proteins: Determination of an Equilibrium Binding Constant" (Undergraduate Laboratory Experiment) Drexel University, 4pp, 1990.

14. A.W. Addison, S. Nagy, S. Solomon and J. Scattolini, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 115pp, 3rd. Edn., 1991.

15. S. Solomon, A.W. Addison, A. Lee and J. Scattolini, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 149pp, 4th. Edn., 1993.

16. S. Solomon, A.W. Addison, A. Lee and E. Thorne, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 158pp, 5th. Edn., 1997.

17. S. Solomon, M. Oliver-Hoyo, A.W. Addison, A. Lee and E. Thorne, "Concepts in General Chemistry: Laboratory Manual", Kendall-Hunt Publishing Co., 158pp, 6th. Edn., 1999.

C: Articles Published in Refereed Journals *(*denotes Corresponding Author)*:

142. A.W. Addison, R.J. Butcher & M.M. Turnbull*, "A copper(II) coordination polymer of formate-bridged dimers: an alternating S = ½ antiferromagnetic chain". *Journal of Coordination Chemistry* (202X), **XX**, xxx-xxx.

141. E.A. Mikhalyova*, K.V. Borysova, E. A. Goreshnik & A. W. Addison. Spectral and luminescence properties of photochromic mixed-ligand Eu^{3+} and Tb^{3+} complexes with tris(3-[2'-pyridyl]-pyrazolyl)borate and carboxylates containing an *N*-salicylideneimine fragment. *Theoretical and Experimental Chemistry* (202X) **XX**, xxx-xxx.

140. E.A. Mikhalyova*, M. Zeller, J.P. Jasinski, M. Kaur, & A.W. Addison, "Bis(3-(9'-anthracenyl)pentane-2,4-dionato)(*N,N*-dimethylformamide-O)(tris[pyrazol-1-yl-κN(2)]hydroborato)europium(III)", *Acta Crystallographica* (2022) **E78**(2), 103-107. [doi: 10.1107/S2056989022000676] *J. Jasinski Tribute issue.*

139. S. Elshani, J.P. Jasinski, A.W. Addison* and G.T. Reeves, "Two Bifunctionalised Derivatives of 1,2,4-Triazole". *Journal of Chemical Crystallography* (2022)**.** [doi: 10.1007/s10870-021-00916-y] *J. Jasinski Tribute issue.*

138. EA. Mikhalyova*, M. Zeller, E.A. Goreshnik, J.P. Jasinski, R.J. Butcher, Y.V. Nelyubina, J.L. Hunter, A.E.

Sedykh, S.V. Shishkina, K. Müller-Buschbaum, I.L. Eremenko, A.W. Addison, & V.V. Pavlishchuk*, "Lanthanide complexes with 4,4′-bis(2-sulfonatostyryl)-biphenyl: crystal structures and luminescence properties". *European Journal of Inorganic Chemistry* (2021) **22**(4). [doi: 10.1002/ejic.202100941]

137. A.W. Addison*, S.J. Jaworski, J.P. Jasinski, M.M. Turnbull, F.Xiao, M. Zeller, M.A. O'Connor & E.A. Brayman, "Chlorocobalt(II) complexes with pyridylethyl-derived diazacycloalkanes". *Acta Crystallographica* (2022) **E78(3)**, 000-000. [doi: 10.1107/S2056989022001220] *J. Jasinski Tribute issue.*

136. P.E.M. Amaral, M. Zeller, M. Nozari, & A.W. Addison*, "1,3-Bis(*N*-methylbenzimidazol-2'-yl)-2-phenylpropanedichloridocopper(II)" *Journal of Chemical Crystallography* (2022) [doi: 10.1007/s10870-021-00914-0] *J. Jasinski Tribute issue.*

135. A.V. Pavlishchuk*, I.V. Vasylenko, M. Zeller & A.W. Addison, "Crystal structure of a Tb(III)-Cu(II) glycinehydroxamate 15-metallacrown-5 sulphate complex" *Acta Crystallographica* (2021) **E77**, 1197-1202. [doi: 10.1107/S2056989021011464] *J. Jasinski Tribute issue.*

134. E.A. Mikhalyova, M. Zeller, J.P. Jasinski, R.J. Butcher, L.M. Carrella, A.E. Sedykh, K.S. Gavrilenko, S.S. Smola, M. Frasso, S. Calderon Cazorla, K. Perera, A. Shi, H.G. Ranjbar, C. Smith, A. Deac, Y. Liu, S.M. McGee, V.P. Dotsenko, M.U. Kumke, K. Müller-Buschbaum, E. Rentschler, A.W. Addison* & V.V. Pavlishchuk*, "Combination of single-molecule magnet behaviour and luminescence properties in a new series of lanthanide complexes with tris(pyrazolyl)borate and oligo(β-diketonate) ligands" *Dalton Transactions* (2020) **49**, 7774-7789 [doi: 10.1039/D0DT00600A]

133. G.T. Reeves*, A.W. Addison & M. Zeller, "Ruthenium(II) Complexes of the Tetradentate Polypyridyl Thioether 1,2-Bis[3'-(2"-pyridyl)-1'-thiapropyl]benzene", *Polyhedron* (2020) Article-114367 [https://doi.org/10.1016/j.poly.2020.114367].

132. J. Smith, P. Martins Amaral, D. Hagaman, A.W. Addison & H-F. Ji*, "Attaining Fine Hexagonal Nanostructures of SnP", *Frontiers in Nanoscience & Nanotechnology* (2019) **5**, 0000 [doi: 10.15761/FNN.1000185]. (*Note: the publisher failed to incorporate the corrections made on the galley proofs !*)

131. A. Pavlishchuk*, D. Naumova, M. Zeller, S. Calderon Cazorla & A.W. Addison. "The crystal structures of $\{LnCu_5\}^{3+}$ (Ln = Gd, Dy and Ho) 15-metallacrown-5 complexes and a reevaluation of the isotypic Eu(III) analogue" *Acta Crystallographica* (2019) **E75**, 1215-1223 [doi: 10.1107/S205698901900999X] (Cover article)

130. E.A. Mikhalyova, O.V. Khomenko, K.S. Gavrilenko, V.P. Dotsenko, A.W. Addison* & V.V. Pavlishchuk*, "Absorption- and excitation-modulated luminescence of Pr^{3+} and Nd^{3+} compounds with dianions of tetrafluoroterephthalic and camphoric acids". *ACS Omega* (Feb. 2019) **4**, 2669-2675 [http://dx.doi.org/10.1021/acsomega.8b02388]

129. K. Goleva, D. Naumova, A.V. Pavlishchuk*, M. Zeller & A.W. Addison*, "Crystal structure of bis-pivaloylhydroxamato-O,O'-copper(II)". *Acta Crystallographica* (Sept. 2018) **E74**, 1384-1387 [https://doi.org/10.1107/S2056989018012227]

128. A.V. Pavlishchuk*, S.V. Kolotilov, M. Zeller, S.E. Lofland & A.W. Addison,* "Magnetic Properties of Ln(III)-Cu(II) 15-Metallacrown-5 Dimers with Terephthalate (LnIII = Pr, Nd, Sm, Eu)", *The European Journal of Inorganic Chemistry* (2018), **2018**(30), 3504-3511 [doi: 10.1002/ejic.201800461]

127. A.V. Pavlishchuk*, S.V. Kolotilov, M. Zeller, S.E. Lofland, L.K. Thompson, A.W. Addison* & A.D. Hunter, "High Nuclearity Assemblies and 1D-coordination Polymers Based on Lanthanide-Copper 15-Metallacrown-5 complexes (LnIII = Pr, Nd, Sm, Eu)", ACS *Inorganic Chemistry* (2017) **56**(21), 13152–13165 [doi: 10.1021/acs.inorgchem.7b01944]

126. M. Nozari, A.W. Addison*, G.T. Reeves, M. Zeller, J.P. Jasinski, M. Kaur, J.G. Gilbert, C.R. Hamilton, J.M. Popovitch, L.M. Wolf, L.E. Crist & N. Bastida, "New Pyrazole and Benzimidazole-Derived Ligand

Systems"; *The Journal of Heterocyclic Chemistry* (2018) **55**(6), 1291-1307 [doi: 10.1002/jhet.3155]

125. A.V. Pavlishchuk, S.V. Kolotilov, M. Zeller, S.E. Lofland, M.A. Kiskin, N.N. Efimov, E.A. Ugolkova, V.V. Minin, V.M. Novotortsev & A.W. Addison*, "Supramolecular Maleate Adducts of Copper(II) 12-Metallacrown-4: Magnetism, EPR and Alcohol Sorption Properties" *The European Journal of Inorganic Chemistry* (2017) 4866-4878 [doi: 10.1002/ejic.201700976]

124. A. V. Kandel, E. A. Mikhalyova, M. Zeller, A. W. Addison & V. V. Pavlishchuk, "Influence of the Structure of 3-Arylacetylacetonate Ligands on the Luminescence Properties of Eu^{3+} and Tb^{3+} Complexes" *Theoretical and Experimental Chemistry*, (July 2017) **53**(3), 180–186 [https://doi.org/10.1007/s11237-017-9513-y]

123. E.A. Mikhalyova, A.V. Yakovenko, M. Zeller, K.S. Gavrilenko, M.A. Kiskin, S.S. Smola, V.P. Dotsenko, I.L. Eremenko, A.W. Addison* & V.V. Pavlishchuk*, "Crystal structures and intense luminescence of tris(3-(2'-pyridyl)-pyrazolyl)borate Tb^{3+} and Eu^{3+} complexes with carboxylate co-ligands", *Dalton Transactions* (2017) **46**(11), 3457-3469 [DOI: 10.1039/c6dt04757b]: *The cover article of the 2017 issue #11* [Cover]

122. V. I. Smith, M. Nozari*, M. Zeller and A. W. Addison, "Crystal structure of (2,2'-bipyridyl)[2,6-bis-(1-butyl-1H-benzimidazol-2-yl)pyridine]chloridoiridium(III) trifluoromethanesulfonate", *Acta Crystallographica* (Jan. 2017) **E73**, 127-132 [https://doi.org/10.1107/S205698901700010X] *An Acta Cryst. E 'most-read' article in 2017.*

121. L. Serpas, B. Milorey, L.A. Pandiscia, A.W. Addison & R. Schweitzer-Stenner*, "Autoxidation of Reduced Horse Heart Cytochrome c Catalyzed by Cardiolipin-Containing Membranes", *The Journal of Physical Chemistry* (2016) **B120**, 12219−12231. [DOI: 10.1021/acs.jpcb.6b05620]

120. M. Nozari, J.P. Jasinski, M. Kaur, A.W. Addison, A.A. Shamsabadi & M. Soroush, "Crystal structure of 5,7,12,14-tetrahydro-5,14:7,12-bis([1,2]benzeno)pentacene-6,13-dione". *Acta Crystallographica Section E: Crystallographic Communications* (Dec. 2016) **72E**(12) 1734-1738 [DOI: 10.1107/S2056989016017461] *An Acta Cryst. E 'most-read' article in 2017.*

119. Y.A. Satska, E.A. Mikhalyova, Z.V. Chernenko, S.V. Kolotilov,* M. Zeller, I.V. Komarov, A.V. Tymtsunik, A. Tolmachev, K.S. Gavrilenko & A.W. Addison*, "Sorption discrimination between secondary alcohol enantiomers by chiral alkyl-dicarboxylate MOFs"; *RSC Advances* (Sept. 2016), [doi: 10.1039/C6RA09353A]

118. M. Nozari*, M. Kaur, J.P. Jasinski, A.W. Addison, A.A. Shamsabadi & M. Soroush, "5,7,12,14-tetrahydro-5,14:7,12-bis([1,2]benzeno)pentacene-6,13-diol dimethylformamide disolvate". *IUCrData Reports*, **1**(7), (July 2016) x161130 [doi:10.1107/S2414314616011305].

117. E. A. Mikhalyova, M. Zeller, S. Trofimenko, A. W. Addison* & V. V. Pavlishchuk, "New homodinuclear tris(3-alkylpyrazolyl)borate complexes of Co(II) and Ni(II) with tetraacetylethane anion as a bridging ligand" (invited paper for special issue celebrating the golden anniversary of the discovery of scorpionates by Swiatoslaw "Jerry" Trofimenko) *Acta Crystallographica* (2016) **C72**, 777-785 [doi.org/10.1107/S205322961601398X ; http://journals.iucr.org/c/issues/2016/11/00/]

116. G.T. Reeves*, A.W. Addison & M. Zeller, "Ruthenium(II) complexes of some simple classic amine ligands", *Inorganica Chimica Acta*, 432 (June 2015) 185-191 [doi:10.1016/j.ica.2015.04.007; online 18 April 2015]

115. 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 π-π Stacking Interactions in Luminescence Properties and Energy Transfer in Aromatically-Derived Tb, Eu and Gd Tris(pyrazolyl)borate Complexes". *Inorganic Chemistry*, **54**(7) (2015) 3125-3133. [Web March 2015, DOI: 10.1021/ic502120g]

114. E. A. Mikhalyova, A. V. Yakovenko, S. S. Smola, V. P. Dotsenko, M. Zeller, A. W. Addison & V. V. Pavlishchuk, "Influence of Uncoordinated Anion-Radical $TCNQ^{-\cdot}$ on the Photo- and Electroluminescence

Properties of Eu^{3+} and Tb^{3+} Tris(Pyrazolyl)Borate Complexes", *Theoretical & Experimental Chemistry*, 2014(July) **50**(3) 167-174. [DOI: 10.1007/s11237-014-9361-y]

113. E. A. Mikhalyova, A. V. Yakovenko, M. Zeller, K. S. Gavrilenko, S. E. Lofland, A. W. Addison* & V. V. Pavlishchuk* "Structure, magnetic and luminescence properties of the lanthanide complexes $Ln_2(Salphen)_3 \cdot H_2O$ (Ln = Pr, Nd, Sm, Eu, Gd, Tb, Dy; H_2Salphen-*N,N'*-bis(salicylidene)-1,2-phenylenediamine)" *Inorganica Chimica Acta*, 9 (2014) 97-104 [April 2014, DOI: 10.1016/j.ica.2014.01.034]

112. 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]

111. A.V. Pavlishchuk, S.V. Kolotilov*, M. Zeller, L. K. Thompson, A. W. Addison*, "Formation of Coordination Polymers or Discrete Adducts *via* Reactions of Gadolinium(III)-Copper(II) 15-Metallacrown-5 Complexes with Polycarboxylates: Synthesis, Structures and Magnetic Properties". ACS *Inorganic Chemistry* (2014) **53**(3), 1320-1330 (Web-published: January 14, 2014) [DOI: 10.1021/ic401928m]

110. J. DePasquale, I. Nieto, L. E. Reuther, C. J. Herbst-Gervasoni, J. J. Paul*, V. Mochalin, M. Zeller, C. M. Thomas, A. W. Addison, and E. T. Papish*, "Iridium Dihydroxybipyridine Complexes Show That Ligand Deprotonation Dramatically Speeds Rates of Catalytic Water Oxidation" ACS *Inorganic Chemistry* (2013) **52**(16), 9175–9183 (Web-published: February 6, 2013); [DOI: 10.1021/ic302448d]

109. E. A. Mikhalyova, S. V. Kolotilov, O. Cador, M. Zeller, S. Trofimenko, L. Ouahab*, A. W. Addison*, V.V. Pavlishchuk* & A. D. Hunter, "The role of the bridging group in exchange coupling in dinuclear homo- and heterometallic Ni(II) and Co(II) complexes with oxalate, oxamidate and dithiooxamidate bridges". *Dalton Transactions* **41** (2012) 11319-11329. [Sept. 2012; DOI: 10.1039/C2DT31121F]

108. 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]

107. 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^{3+} and Pr^{3+} 2D polymers with tetrafluoro-*p*-phthalate", *Dalton Transactions* **40** (2011) 10989-10996 [Oct. 2011; DOI: 10.1039/c1dt11237f]

106. Anna V. Pavlishchuk, Sergey V. Kolotilov, Igor O. Fritsky, Matthias Zeller*, Anthony W. Addison and Allen D. Hunter, "Structural trends in a series of isostructural lanthanide-copper metallacrown sulfates (Ln^{III} = Pr, Nd, Sm, Eu, Gd, Dy and Ho): {Pentakis(μ_3-glycinehydroxamato)-hexaaqua(sulfato-*O,O'*)-pentacopper(II)-lanthanide(III)} {pentakis(μ_3-glycinehydroxamato)-heptaaqua(sulfato-*O,O'*)-penta-copper(II)-lanthanide(III)}sulfate hexahydrate." *Acta Crystallographica* **C67** (July 2011) m255-m265 [doi:10.1107/S0108270111021780]

105. 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]

104. 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 $(Cu^{II})_{15}(Cr^{III})_2$ complex assembled from pentanuclear metallacrowns." *The European Journal of Inorganic Chemistry*, (2010) 4851-4858 [Oct. 2011] [DOI: 10.1002/ejic.201000367]

103. A.V. Yakovenko, L. Sorace, E.A. Mikhalyova, A.W. Addison & V.V. Pavlischuk*, "Exchange Interactions in Trinuclear Multispin Complexes $[Fe^{III}{}_2M^{II}O(p\text{-NitPhCOO})_6]\cdot$MeCN (M = Co, Ni, *p*-NitPhCOO$^-$

= *p*-Benzoatenitronyl-nitroxide radical", *Theoretical & Experimental Chemistry* **46(4)** (2010) 243-249 [Oct. 2010] [DOI: 10.1007/s11237-010-9147-9]

102. D. Dragancea*[a], A. W. Addison*[b], M. Zeller[c], M. E. Foster[b], M. J. Prushan[d], L. K. Thompson[e], M. D. Revenco[a] and A. D. Hunter[c], "A tetranuclear copper(II) bis-thiocarbohydrazone complex derived from *o*-aminobenzaldehyde." *Inorganica Chimica Acta*, **363** (2010) 2065-2070; doi:10.1016/j.ica.2010.02.002

101. I.V. Vasylenko, K.S. Gavrilenko, 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]

100. V. Mathrubootham*, A.W. Addison*, K. T. Holman, E. Sinn & L.K. Thompson "A novel copper(II) complex of a tripodal ligand with phenolate-phenol interligand, intramolecular hydrogen bonding." *Dalton Transactions* (2009) 8111-8116 (DOI: 10.1039/B910188H Aug., Sept. 2009)

99. K-N. Park, H-J. Kim, J-H. Wee, W-K. Lee, H-J. Chun*, J-W. Jang, A. Addison & R. B. Beard, "Human Melanoma Cells Adhesion on the Surface of Polymeric Chemoattractants", *Tissue Engineering and Regenerative Medicine*, 5(4-6) (2008) 932-938 [http://www.kbbcom.co.kr/datadown/No.4.pdf]

98. D. Dragancea, A. W. Addison*, M. Zeller, L. K. Thompson, D. Hoole, M. D. Revenco & A. D. Hunter, "Dinuclear copper(II) complexes with bis-thiocarbohydrazone ligands", *European Journal of Inorganic Chemistry* (2008) 2530-2536 [May 2008] [DOI: 10.1002/ejic.200701187]

97. S.V. Kolotilov, D. Schollmeyer, L.K. Thompson, V. Golub, A.W. Addison & V.V. Pavlishchuk*, "Synthesis, structure and magnetic properties of oligometallic systems derived from di- and trinuclear copper(II) amido-oximate complexes", *Dalton Transactions* (2008) 3007-3014 [May 2008] [DOI: 10.1039/b802822b]

96. A. V. Yakovenko, S V. Kolotilov, A. W. Addison, S. Trofimenko, G. P. A. Yap, V. Lopushanskaya & V. V. Pavlishchuk*, "Ni(II), Co(II) and Mn(II) tris(pyrazolyl)borate complexes with 2,6-di-tert-butyl-4-carboxyphenol: formation of coordinated phenoxyl radical", *Inorganic Chemistry Communications*, **8** (2005) 932-935 [DOI: 10.1016/j.inoche.2005.07.007]

95. V.V. Pavlishchuk, M.J. Prushan & A. W. Addison, "Influence of zero-field splitting on magnetic properties of dinuclear iron(III) complexes", *Theoretical & Experimental Chemistry*, **41(4)**, 229-234 (July 2005) [DOI: 10.1007/s11237-005-0043-7]

94. M.J. Prushan, A.W. Addison, R.J. Butcher & L.K. Thompson, "Copper(II) Complexes of Tetradentate Thioether-Oxime Ligands", *Inorganica Chimica Acta*, **358**, 3449-3556 (July 2005) [DOI: 10.1016/j.ica.2005.04.038]

93. A. W. Addison*, R. J.Butcher, Z. Homonnay, V. V. Pavlishchuk*, M. J. Prushan & L. K. Thompson, "The Hexakis(thiocyanato)ferrate(III) Ion: a Coordination Chemistry Classic Reveals an Interesting Geometry Pattern for the Thiocyanate Ligands" *The European Journal of Inorganic Chemistry* (June 2005) 2404-2408; 4665. [DOI: 10.1002/ejic.200400867 , 10.1002/ejic.200500864]

92. J. G. Zhou* A.W. Addison, Z. He & F. Wang, "Chemical Liquid Deposition Process for Microstructure Fabrication", *Materials and Design*, (2005) **26**, 670-679[DOI: 10.1016/j.matdes.2004.08.018]

91. J. G. Gilbert, A. W. Addison*, P. Prabakaran & R. J. Butcher, "A novel paradigm for metal-induced ring flipping in the copper(II) complex of 1,2-bis(*N*-methylbenzimidazol-2'-yl)benzene triflate", *Inorganic Chemistry Communications,* (2004) **7**, 701-704 [DOI: 10.1016/j.inoche.2004.03.019]

90. K. S. Gavrilenko, A. Addison, L. Thompson & V. V. Pavlishchuk, "The magnetic properties of trinuclear $[\mu^3\text{-O}(CH_3COO)_6(pz)_{10}]^+$ (M= Fe, Cr, pz= pyrazine) complexes", *Theoretical and Experimental Chemistry*,

40(4), 214-219 (July/Aug. 2004) [DOI: 10.1023/B:THEC.0000041805.88928.de]

89. S. V. Kolotilov, A. W. Addison, S. N. Trofimenko, W. Dougherty & V. V. Pavlishchuk*, "Efficient mechanochemical synthesis of tris(pyrazolylborate) complexes of manganese(II), cobalt(II) and nickel(II)". *Inorganic Chemistry Communications,* (2004) **7**, 485-488 [DOI: 10.1016/j.inoche.2004.01.009]

88. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison, M. J. Prushan, D. Schollmeyer, L. K. Thompson, T. Weyhermüller and E. A. Goreshnik, "Structural, magnetic and related attributes of some tetranuclear nickel rhombs and a dinuclear congener." *Dalton Transactions* (2003) 1587-1595 [DOI: 10.1039/b300539a]

87. G. Wu, X. Shi, Q. Fang, G. Tian, L. Wang, G. Zhu*, A. W. Addison, Y. Wei, and S Qiu*, "Triethylammonium benzene-1,3,5-tricarboxylato(pyridine)zinc(II): a two-dimensional undulating mesh network", *Inorganic Chemistry Communications*, **6**, (2003) 402-404. (Published online 7 January 2003.) [DOI: 10.1016/S1387-7003(02)00778-5]

86. K. S. Gavrilenko, A. Vértes, G. Vanko, L. F. Kiss, A. W. Addison, T. Weyhermüller & V. V. Pavlishchuk*, "Synthesis, magnetochemistry and spectroscopy of heterometallic trinuclear basic trifluoroacetates [$Fe_2M(\mu^3$-$O)(CF_3COO)_6(H_2O)_3]\cdot H_2O$ (M = Mn, Co, Ni)", *European Journal of Inorganic Chemistry*, (Nov. 2002) 3347-3355. [10.1002/1099-0682(200212)2002:12<3347]

85. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison, M. J. Prushan, R. J. Butcher and L. K. Thompson, "A new class of macrocyclic complexes formed *via* nickel-promoted macrocyclisation of dioxime with dinitrile." *Journal of the Chemical Society, Chemical Communications* (2002) 468-469 [DOI: 10.1039/b111191b]

84. S. Ghosh, K. K. Nanda, A. W. Addison* and R. J. Butcher, "Mononuclear and Mixed-valence Dinuclear Oxovanadium Complexes with Benzimidazole-derived Chelating Agents", *Inorganic Chemistry*, **41**(8), 2243-2249 (April 2002) [Web-published 2002/03/23] [DOI: 10.1021/ic010945x]

83. J. G. Gilbert, A. W. Addison*, M. Palaniandavar and R. J. Butcher, "Synthesis of Some Benzimidazole-, Benzothiazole- and Pyridine- Derived Chelating Agents." *The Journal of Heterocyclic Chemistry*, **39**, 399-404 (April 2002)[DOI: 10.1002/jhet.5570390225]

82. J. G. Gilbert, A. W. Addison*, A. Y. Nazarenko and R. J. Butcher, "Copper(II) complexes of new unsymmetrical NSN thioether ligands", *Inorganica Chimica Acta*, **324**, 123-130 (Nov. 2001) [DOI: 10.1016/S0020-1693(01)00564-3]

81. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison*, M. J. Prushan, D. Schollmeyer, L. K. Thompson and E A. Goreshnik, "A Tetrameric Nickel(II) "Chair" with both Antiferromagnetic Internal Coupling and Ferromagnetic Spin Alignment." *Angewandte Chemie, International Edition*, **40**, 4734-4737 (Dec. 2001)[DOI: 10.1002/1521-3773(20011217)40:24<4734::AID-ANIE4734>3.0.CO;2-D]

80. V. V. Pavlishchuk*, I. A. Koval, E. Goreshnik, A. W. Addison*, G. A. van Albada and J. Reedijk, "The First Example of a True "Turnbull's Blue" Family Compound with Trapped Iron Oxidation States", *The European Journal of Inorganic Chemistry*, 297-301 (Jan. 2001). [DOI: 10.1002/1099-0682(20011)2001:1<297] [Described in Housecroft & Sharpe's, 'Inorganic Chemistry'; e.g. 4th Edn., p.750]

79. J. G. Gilbert, A. W. Addison* & R. J. Butcher, "Some Nickel(II) Complexes with Pentadentate and Tridentate Heterocyclic N- and S-Donor Ligands", *Inorganica Chimica Acta*, **308**, 22-30 (Oct. 2000) [DOI: 10.1016/S0020-1693(00)00189-4]

78. M. J. Prushan, A. W. Addison* and R. J. Butcher, "Pentadentate Thioether Oxime Macrocyclic and Quasi-Macrocyclic Complexes of Copper(II) and Nickel(II)", *Inorganica Chimica Acta*, **300-302**, 992-1003 (April 2000) [DOI: 10.1016/S0020-1693(00)00016-5]

77. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison, E. Sinn & M. J. Prushan, "Nickel(II), Nickel(I) and Nickel(0) Complexes with 1,8-Bis(2'-pyridyl)-3,6-dithiaoctane", *Russian Journal of Inorganic Chemistry* **45**(2), 544-550 (2000).

76. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison*, R. J. Butcher and E. Sinn, "Nickel(II) complexes with dithiadiiminoamine and dithiabis(thiosemicarbazone) ligands." *Journal of the Chemical Society, Dalton Transactions*, 335-341 (2000) [DOI: 10.1039/a906294g]

75. V. V. Pavlishchuk and A. W. Addison, "Conversion Constants for Redox Potentials Measured *vs*. Different Reference Electrodes in Acetonitrile Solutions at 25 °C", *Inorganica Chimica Acta*, **298**, 97-102 (2000) [DOI: 10.1016/S0020-1693(99)00407-7]

74. J. J. Stephanos*, L. M. Jackson & A. W. Addison, "Copper(II) Schiff-Base Complexes and Apoglobin Stability", *The Journal of Inorganic Biochemistry*, **73**, 137-144 (1999) [DOI: 10.1016/S0162-0134(99)00007-0]

73. V. V. Pavlishchuk*, S. V. Kolotilov, A. W. Addison*, M. J. Prushan, R. J. Butcher and L. K. Thompson, "Mono- and Trinuclear Nickel(II) Complexes with Sulfur-Containing Oxime Ligands: Uncommon Templated Coupling of Oxime with Nitrile", *Inorganic Chemistry*, **38**, 1759-1766 (1999) [DOI: 10.1021/ic981277r]

72. V. V. Pavlishchuk, S. V. Kolotilov, E. Sinn, M. J. Prushan and A. W. Addison, "The 1,8-Bis(2'-pyridyl)-3,6-dithiaoctane complex of nickel(II): X-ray crystal structure and borohydride adduct formation", *Inorganica Chimica Acta*, **278**, 217-222 (1998) [DOI: 10.1016/S0020-1693(98)00030-9]

71. K. K. Nanda, A. W. Addison,* N. Paterson, E. Sinn, L. K. Thompson and U. Sakaguchi, "Copper(II) and Nickel(II) Complexes of Anionic Dinucleating Macrocycles." *Inorganic Chemistry*, **37**, 1028-1036 (1998) [DOI: 10.1021/ic9712434]

70. K. K. Nanda, A. W. Addison*, R. J. Butcher, M. R. McDevitt, T. N. Rao and E. Sinn, "Structural Demonstration of The Rôle of Ligand Framework Conformability in Copper(II)/ Copper(I) Redox Potentials." *Inorganic Chemistry*, **36**, 134-135 (1997) (Communication to the Editor) [DOI: 10.1021/ic961112n]

69. J. J. Stephanos, S. A. Farina & A. W. Addison*, "Triangular Kinetic Schemes Applied to the Stability of a Heme-Globin Complex." *The Journal of Inorganic Biochemistry*, **66,** 83-98, (1997) [DOI: 10.1016/S0162-0134(96)00186-9]

66. J. J. Stephanos, S. A. Farina & A. W. Addison*, "Iron Ligand Recognition by Monomeric Hemoglobins." *Biochimica et Biophysica Acta*, **1295**, 209-221 (1996) [J. J. Stephanos, S. A. Farina & A. W. Addison*, "Iron Ligand Recognition by Monomeric Hemoglobins." *Biochim. Biophys. Acta* (1996), **1295**, 209-221 [doi.org/10.1016/0167-4838(96)00041-6]

68. A. W. Addison, "Electron-Counting Rules for Transition Metal-Nitric Oxide Complexes", *Journal of Chemical Education*, **74**, 1354-1356, (1997) [weblink]

67. K. K. Nanda, A. W. Addison*, E. Sinn & L. K. Thompson, "Helical Antiferromagnetic Copper(II) Chains with a Collagen Structural Motif", *Inorganic Chemistry*, 35, 5966-7 (1996) (Communication to the Editor) [DOI: 10.1021/ic9607090]

65. M. Palaniandavar, R. J. Butcher and A. W. Addison*, "Dipicolylamine Complexes: Two Different Copper Coordination Geometries in the Same Unit Cell: Bis(dipicolylamine)copper(II) Tetrafluoroborate." *Inorganic Chemistry*, **35**, 467-471 (1996) [DOI: 10.1021/ic941396g]

64. K. K. Nanda, A. W. Addison* & E. Sinn, "The First Oxovanadium(V) Thiolate Complex, $[VO(SCH_2CH_2)_3N]$". *Inorganic Chemistry*, **35**, 1-2 (1996) (Communication to the Editor) [DOI: 10.1021/ic9512486] [Cited in Cotton & Wilkinson's textbook, 'Inorganic Chemistry'; *e.g.* 6th Edn., p.720]

63. V. V. Pavlishchuk, A. W. Addison*, R. J. Butcher & R. P. F. Kanters, "A Nickel Dithiadioxime Derived Macrocycle", *Inorganic Chemistry*, **33**, 397-399 (1994)[DOI: 10.1021/ic00080a034]

62. X. Xiaoming, M-a. Haga*, T. Matsumura-Inoue, Y. Ru, A. W. Addison* & K. Kano, "Synthesis and Proton Transfer Linked Redox Tuning of Ruthenium(II) Complexes with Tridentate 2,6-Bis-(benzimidazol-2'-yl)pyridine Ligands.", *Journal of the Chemical Society, Dalton Transactions*, 2477-2484 (1993). [DOI: 10.1039/DT9930002477]

61. V. V. Pavlishchuk & A. W. Addison*, "Synthesis, Spectroscopic and Redox Behaviour of Copper(II) Complexes with Quinquedentate Thiaaza Ligands", *Inorganica Chimica Acta*, **203**, 29-35 (1993) [DOI: 10.1016/S0020-1693(00)82900-X]

60. M.R. McDevitt & A.W. Addison*, "Medium Effects on the Redox Chemistry of Tris(2,2'-bipyridyl)ruthenium Complexes", *Inorganica Chimica Acta*, **204**, 141-146 (1993) [DOI: 10.1016/S0020-1693(00)82917-5]

59. M.R. McDevitt, R. Yu & A.W. Addison*, "Ruthenium(II) Complexes with Some Phenanthroline-, Benzimidazole-, Benzothiazole- and Pyridine-Derived Bidentate and Tridentate Ligands: Reactivity and Spectroscopic and Electrochemical Characterization", *Transition Metal Chemistry*, **18**, 197-204, (1993) [DOI: 10.1007/BF00139956]

58. R. P. F. Kanters*, B. W. Char & A. W. Addison, "A Computer Algebra Application for the Description of NMR Experiments using the Product Operator Formalism", *Journal of Magnetic Resonance*, **A101**, 23-29, (1993).

57. R.P.F. Kanters, R. Yu & A.W. Addison*, "Some High-Potential Trithioether Chelates of Copper", *Inorganica Chimica Acta*, **196**, 97-102 (1992)[DOI: 10.1016/S0020-1693(00)82965-5]

56. S. Rüttimann, C. M. Moreau, A.F. Williams*, G. Bernardinelli and A.W. Addison, "Complexes of Structural Analogues of Terpyridyl with Iron and Zinc; the X-Ray Crystal Structure of Bis(2,6-bis-[benzimid-azol-2'-yl]pyridine)iron(II) Trifluoromethanesulphonate Bis-Ethanol Solvate", *Polyhedron*, **11**, 635-646 (1992) [DOI: 10.1016/S0277-5387(00)83320-3]

55. T.J. DiFeo & A.W. Addison*, "Heme Rotational Isomerism is Not Required for the Production of *Q*-Band Splitting in the Spectra of Iron-Porphyrin Proteins", *Inorganic Chemistry*, **30**, 1151-1153 (1991) [DOI: 10.1021/ic00005a052]

54. T.J. DiFeo and A.W. Addison*, "Chiroptical and Physicochemical Properties of the Extracellular Hemoglobin from *Cirriformia tentaculata*", *Comparative Biochemistry & Physiology*, **97B**, 391-399 (1990) [DOI: 10.1016/0305-0491(90)90297-7]

53. T.J. DiFeo & A.W. Addison*, "Kinetic and Spectroscopic Studies of Hæmoglobin and Myoglobin from the Echiuran *Urechis caupo* - Distal Residue Effects", *The Biochemical Journal*, **269**, 739-747 (1990) [weblink]

52. M.R. McDevitt, A.W. Addison*, E. Sinn* & L.K. Thompson, "Analogues for the Specific Iron-Binding Site of Transferrin: Structure of a Ternary Complex and Spectroscopic and Reactivity Properties of Related Model Compounds", *Inorganic Chemistry*, **29**, 3425-3433 (1990) [DOI: 10.1021/ic00343a029]

51. J.J. Stephanos and A.W. Addison*, "Thermochromism of Heme Adducts of *Glycera* Hemoglobin and Some other Monomeric Heme Proteins", *The Journal of Inorganic Biochemistry*, **39**, 351-369 (1990) [DOI: 10.1016/0162-0134(90)80033-T]

50. S. Nagy*, A.W. Addison, C.M. Rosenthal, E. Kuzmann, K. Süvegh and A. Vértes, "Multinomial Distribution as the Most Likely Distribution of the Stoichiometric Composition of Stochastically formed n-

Mers", *Journal of Radioanalytical & Nuclear Chemistry*, **141**, 373-391 (1990) [DOI: 10.1007/BF02035804]

49. J.J. Stephanos and A.W. Addison*, "Spectroscopic and Kinetic Aspects of *Elephas maximus* Hemoglobin", *The European Journal of Biochemistry*, **189**, 125-130 (1990) [DOI: 10.1111/j.1432-1033.1990.tb15475.x]

48. C.G. Wahlgren, A.W. Addison*, S. Burman, L.K. Thompson, E. Sinn and T. M. Rowe, "Oxo-Bridged Complexes of Iron(III) Derived from 2-(2'-Hydroxyphenyl)benzothiazole and 2-(2'-Hydroxyphenyl)-benzimidazole Ligands", *Inorganica Chimica Acta*, **166**, 59-69 (1989) [DOI: 10.1016/S0020-1693(00)80787-2]

47. A.W. Addison, "Is Ligand Topology A Structural Influence on the Redox Potentials of Copper Complexes ?", *Inorganica Chimica Acta*, **162**, 217-220 (1989) [DOI: 10.1016/S0020-1693(00)83150-3]

46. C.G. Wahlgren and A.W. Addison*, "Synthesis of Some Benzimidazole-, Pyridine- and Imidazole-Derived Chelating Agents", *The Journal of Heterocyclic Chemistry*, **26**, 541-543 (1989) [DOI: 10.1002/jhet.5570260303]

45. T.J. DiFeo and A.W. Addison*, "Hæm Cotton Effects of *Glycera dibranchiata* Monomeric Hæmoglobin and Equine Myoglobin Reconstituted with Synthetic and Natural Iron Porphyrins", *The Biochemical Journal*, **260**, 863-871 (1989) [weblink]

44. R.J. Butcher & A.W. Addison*, "Structural Aspects of the Bis(2,2'-dipicolylamine)iron(II) Cation", *Inorganica Chimica Acta*, **158**, 211-215 (1989) [DOI: 10.1016/S0020-1693(00)80835-X]

43. A.W. Addison* and C.G. Wahlgren, "Some Iron(III) Complexes with Polydentate Schiff Base Ligands", *Inorganica Chimica Acta*, **147**, 61-64 (1988) [DOI: 10.1016/S0020-1693(00)80630-1]

42. A.W. Addison*, M. Palaniandavar, W.L. Driessen*, F. Paap and J. Reedijk, "Copper Complexes of Some Tetradentate Pyrazolyl Amines", *Inorganica Chimica Acta*, **142**, 95-100 (1988) [DOI: 10.1016/S0020-1693(00)80665-9]

41. A.W. Addison* and J.J. Stephanos, "Spin- and Other Equilibria of Monomeric Heme Proteins", *Recueil des Travaux de Chimie Pays-Bas*, **106**, 324 (1987).

40. S.B. Sanni, H.J. Behm, P.T. Beurskens, G.A. van Albada, J. Reedijk*, A.T.H. Lenstra, A.W. Addison and M. Palaniandavar, "Copper(II) and Zinc(II) Coordination Compounds of Tridentate Bis(benzimidazole)pyridine Ligands. Crystal and Molecular Structures of Bis(2,6-bis-(*N*-methyl-benzimidazol-2-yl)pyridine)-copper(II) Bis(perchlorate) Monohydrate and (Acetonitrile)-(2,6-bis-(benzimidazol-2-yl)pyridine)perchloratocopper(II) Perchlorate)", *The Journal of the Chemical Society, Dalton Transactions*, 1429-1435 (1988) [DOI: 10.1039/DT9880001429]

39. A. W. Addison*, S. Burman, C. G. Wahlgren, O. A. Rajan, T. M. Rowe and E. Sinn*, "New Iron(II) Spin Crossover Complexes with Heterocyclic Amine-Derived Ligands and STEPS Experiments on Photo-generated Metastable High-Spin States", *The Journal of the Chemical Society, Dalton Transactions*, 2621-2630 (1987). [DOI: 10.1039/DT9870002621]

38. L.K. Thompson*, S.K. Mandal, E.J. Gabe, F.L. Lee and A.W. Addison, "Structure and Electrochemical Properties of Antiferromagnetically Coupled Binuclear Hydroxo-Bridged Copper(II) Complexes with Pyridine and Phthalazine Ligands. Crystal and Molecular Structures of □-[3,6-bis(1-pyrazolyl)pyridazine-N,μ-N^3,μ-N^4,N]-μ-hydroxotrichloroaquadicopper(II) 0.8 hydrate, $Cu_2C_{10}H_{11}Cl_3N_6O_2.0.8H_2O$, μ-[3,6-bis(1-pyrazolyl)pyridazine-N,μ-N^3,μ-N^4,N]-μ-hydroxotribromo-aquadicopper(II) 0.6 hydrate, $Cu_2C_{10}H_{11}Br_3N_6O_2.0.6H_2O$, and μ-[1,4-bis(1-methylimidazol-2-yl)phthalazine]-μ-hydroxotribromoaquadicopper(II) hydrate, $Cu_2C_{16}H_{19}Br_3N_6O_2$", *Inorganic Chemistry*, **26**, 657-664 (1987) [DOI: 10.1021/ic00252a006]

37. T.C. Woon, R. McDonald, S.K. Mandal, L.K. Thompson*, S.P. Connors and A.W. Addison, "Copper Coordination Chemistry of some Tetradentate Pyridazine and Phthalazine (N_4) Thioether Ligands. Binuclear Copper(II) Complexes Exhibiting Sequential Two-Electron Reduction at Positive Potentials", *The Journal of the*

Chemical Society, Dalton Transactions, 2381-2386 (1986). [DOI: 10.1039/DT9860002381]

36. A.W. Addison* and J.J. Stephanos, "Nitrosyliron(III) Hemoglobin: Autoreduction and Spectroscopy", *Biochemistry*, **25**, 4104-4113 (1986)[DOI: 10.1021/bi00362a018]

35. A.W. Addison* and S. Burman, "Ligand-Dependent Redox Chemistry of *Glycera dibranchiata* Hemoglobin", *Biochimica et Biophysica Acta*, **828**, 362-368 (1985).

34. A.W. Addison*, T.N. Rao and E. Sinn, "Spectroscopy and Structure of Thiolate and Thioether Complexes of Copper(II), and the Relationship of Their Redox Properties to Certain Copper Proteins", *Inorganic Chemistry*, **23**, 1957-1967 (1984) [DOI: 10.1021/ic00181a033]

33. A.W. Addison*, T.N. Rao, J. Reedijk*, J. van Rijn and G.C. Verschoor, "Synthesis, Structure and Spectroscopic Properties of Copper(II) Compounds Containing Nitrogen-Sulphur Donor Ligands; the Crystal and Molecular Structure of Aqua[1,7-bis(*N*-methylbenzimidazol-2-yl)-2,6-dithiaheptane]-copper(II) Perchlorate", *The Journal of the Chemical Society, Dalton Transactions*, 1349-1356 (1984) [DOI: 10.1039/DT9840001349]

32. A.W. Addison*, B. Watts and M. Wicholas*, "Adduct Formation and Electrochemistry of a Unipositive Nickel(II) Macrocycle, $[Ni(Cyclops)]^{+}$", *Inorganic Chemistry*, **23**, 813-816 (1984) [DOI: 10.1021/ic00175a005]

31. A.W. Addison*, T.N. Rao and C.G. Wahlgren, "Syntheses of Some Benzimidazole- and Benzothiazole-Derived Ligand Systems and Their Precursory Diacids", *The Journal of Heterocyclic Chemistry*, **20**, 1481-1484 (1983) [DOI: 10.1002/jhet.5570200609]

30. A.W. Addison*, P.J. Burke, K. Henrick, T.N. Rao and E. Sinn, "Copper Complexes of Nitrogen-Sulfur Donors: Structural Chemistry of Two Complexes of Bis(2-benzimidazylethyl)sulfide With the Sulfur Alternatively in Equatorial and Axial Coordination Modes", *Inorganic Chemistry*, **22**, 3645-3653 (1983) [DOI: 10.1021/ic00166a030]

29. J.L. Smith, W.A. Hendrickson* and A.W. Addison, "Structure of Trimeric Hæmerythrin", *Nature (London)*, **303** (5912), 86-88 (1983) [DOI: 10.1038/303086a0] Designated a *Nature* "Milestone in Structural Biology": http://www.nature.com/milestones

28. A.W. Addison* and E. Sinn, "A Stable Bis-Thiolate of Copper(II) With Long Axial Copper-Sulfur Linkages: Crystal and Molecular Structure of trans-$[Cu(Cyclam)(SC_6F_5)_2]$", *Inorganic Chemistry*, **22**, 1225-1228 (1983) [DOI: 10.1021/ic00150a017]

27. A.W. Addison* and P.L. Dougherty, "The Coelomic Hemerythrin of *Siphonosoma cumanense*", *Comparative Biochemistry & Physiology*, **72B**, 433-438 (1982) [DOI: 10.1016/0305-0491(82)90223-1]

26. A.W. Addison*, P.J. Burke and K. Henrick, "Crystal and Molecular Structure of Dipolar Spin-Coupled Dimers of an Irregularly Pentacoordinate Copper(II) Complex, [Cu(5-MeIin)(DBM)]", *Inorganic Chemistry*, **21**, 60-63 (1982) [DOI: 10.1021/ic00131a011]

25. A.W. Addison* and P.J. Burke, "Synthesis of Some Imidazole- and Pyrazole-Derived Chelating Agents", *The Journal of Heterocyclic Chemistry*, **18**, 803-805 (1981) [DOI: 10.1002/jhet.5570180436]

24. M.A. Augustin, J.K. Yandell*, A.W. Addison and K.D. Karlin, "Rates of Electron Transfer and Redox Potentials of Some Copper(II) Thioether Complexes", *Inorganica Chimica Acta, Bioinorganic Chemistry*, **55**(B2), L35-L37 (1981) [DOI: 10.1016/S0020-1693(00)90762-X]

23. A.W. Addison, H. Henriks, J. Reedijk and L.K. Thompson*, "Copper Complexes of the 'Tripod' Ligand Tris(2-benzimidazylmethyl)amine: Five- and Six-coordinate Copper(II) Derivatives and Some Copper(I) Derivatives", *Inorganic Chemistry*, **20**, 103-110 (1981) [DOI: 10.1021/ic50215a024]

22. E.W. Ainscough*, A.M. Brodie, J.E. Plowman, K.L. Brown, A.W. Addison and A.R. Gainsford, "Small Molecule Analogues for the Specific Iron-Binding Site of Lactoferrin: A Single Crystal X-ray Structure of Bis(methanol)bis[2-(5-methylpyrazol-3-yl)phenolato]iron(III) Nitrate Methanol and Spectroscopic Studies on Iron(II)-Phenolate Complexes", *Inorganic Chemistry*, **19**, 3655-3663 (1980) [DOI: 10.1021/ic50214a018]

21. A.W. Addison*, C.P. Landee, R.D. Willett* and M. Wicholas*, "Superexchange Interactions in Some Binuclear Complexes of Copper(II) With Single Axial Bridging", *Inorganic Chemistry*, **19**, 1921-1923 (1980)[DOI: 10.1021/ic50209a020]

20. D. Dolphin*, A.W. Addison, M. Cairns, R.K. DiNello, N. Farrell, B.R. James, D.R. Paulson and C. Welborn, "Heme Proteins and Metalloporphyrins: Redox Chemistry and Oxygen Binding", *The International Journal of Quantum Chemistry*, **16**, 311-329 (1979)[DOI: 10.1002/qua.560160213]

19. D.R. Paulson, A.W. Addison*, D. Dolphin* and B.R. James*, "Preparation of Ruthenium(II) and Ruthenium(III) Myoglobin and the Reaction of Dioxygen and Carbon Monoxide with Ruthenium(II) Myoglobin", *The Journal of Biological Chemistry*, **254**, 7002-7006 (1979) [weblink]

18. U. Sakaguchi and A.W. Addison* "Spectroscopic and Redox Studies of Some Copper(II) Complexes with Biomimetic Donor Atoms: Implications for Protein Copper Centres", *The Journal of the Chemical Society, Dalton Transactions*, 600-608 (1979) [DOI: 10.1039/DT9790000600]

17. E.W. Ainscough*, A.W. Addison, D. Dolphin and B.R. James, "Iron Porphyrin Phenoxides: Models for Some Hemoglobin Mutants", *Journal of the American Chemical Society*, **100**, 7585-7591 (1978)[DOI: 10.1021/ja00492a025]

16. A.W. Addison* and J.H. Stenhouse, "Remote Substituent Effects in *N*-Arylpyrrole-2-Carboxaldiminatocopper(II) Complexes", *Inorganic Chemistry*, **17**, 2161-2165 (1978) [DOI: 10.1021/ic50186a026]

15. A.W. Addison*, M. Carpenter, L.K-M. Lau and M. Wicholas*, "Coordination Sphere Flexibility at Copper: Chemistry of a Unipositive Copper(II) Macrocycle, Cu(cyclops)$^+$", *Inorganic Chemistry*, **17**, 1545-1552 (1978) [DOI: 10.1021/ic50184a032]

14. A.W. Addison*, N.S. Dalal, Y. Hoyano, S. Huizinga and L. Weiler*, "The Chemistry of Anions Derived from Tetracyanodiphenoquinodimethane (TCNDQ)", *The Canadian Journal of Chemistry*, **55**, 4191-4199 (1977) [DOI: 10.1139/v77-594]

13. A.W. Addison* and R.E. Bruce, "Chemistry of *Phascolosoma lurco* Hemerythrin" *Archives of Biochemistry & Biophysics*, **183**, 328-332 (1977)

12. U. Sakaguchi and A.W. Addison*, "Structural Implications for Blue Protein Copper Centers from Electron Spin Resonance Spectra of Cu(II)S_4 Chromophores", *Journal of the American Chemical Society*, **99**, 5189-5190 (1977) [DOI: 10.1021/ja00457a054]

11. J.B.R. Dunn, A.W. Addison, R.E. Bruce, T.M. Loehr* and J.S. Loehr, "Comparison of Hemerythrins from Four Species of Sipunculids by Optical Absorption, Circular Dichroism, Fluorescence Emission and Resonance Raman Spectroscopy", *Biochemistry*, **16**, 1743-1749 (1977)[DOI: 10.1021/bi00627a035]

10. H. Yokoi and A.W. Addison*, "Spectroscopic and Redox Properties of Pseudotetrahedral Copper(II) Complexes. Their Relationship to Copper Proteins." *Inorganic Chemistry*, **16**, 1341-1349 (1977) [DOI: 10.1021/ic50172a018]

9. A.W. Addison*, T.H. Li and L.S. Weiler*, "Redox Properties of 2,4,7,8-tetramethoxyselenanthrene, a Charge-Transfer Donor", *The Canadian Journal of Chemistry*, **55**, 766-770 (1977) [DOI: 10.1139/v77-106]

8. A.W. Addison, "One-Electron Redox Processes at Binuclear Copper Centres", *Inorganic & Nuclear Chemistry Letters*, **12**, 899-903 (1976) [DOI: 10.1016/0020-1650(76)80004-9]

7. A.W. Addison, R.D. Gillard*, P.S. Sheridan, L.R.H. Tipping, "Syntheses and Properties of Some Oxalato-rhodium(III) Complexes", *The Journal of the Chemical Society, Dalton Transactions*, 709-716 (1974). [DOI: 10.1039/DT9740000709]

6. A.W. Addison and R.D. Gillard*, "Adducts of Coordination Compounds, Part X; Solvates and Adducts of Trans-Dihalotetrapyridinerhodium(III) Salts", *The Journal of the Chemical Society, Dalton Transactions*, 2009-2012 (1973) [DOI: 10.1039/DT9730002002]

5. A.W. Addison and R.D. Gillard*, "Adducts of Coordination Compounds, Part IX; Halocarbon Solvates of Trihalotrispyridinerhodium(III) Complexes", *The Journal of the Chemical Society, Dalton Transactions*, 2003-2009 (1973) [DOI: 10.1039/DT9730002009]

4. A.W. Addison, R.D. Gillard* and D.H. Vaughan, "Polarography of Rhodium(III) Compounds", *The Journal of the Chemical Society, Dalton Transactions*, 1187-1193 (1973). [DOI: 10.1039/DT9730001187]

3. A.W. Addison, K. Dawson (Ms.), R.D. Gillard*, B.T. Heaton, H. Shaw, "Synthesis and Characterisation of Rhodium(III) Complexes Containing Nitrogen Heterocyclic Ligands", *The Journal of the Chemical Society, Dalton Transactions*, 589-596 (1972). [DOI: 10.1039/DT9720000589]

2. A.W. Addison and R.D. Gillard*, "Superoxide-Bridged Binuclear Complexes of Rhodium(III)", *The Journal of the Chemical Society, Dalton Transactions*, 2523-2526 (1970).

1. A.W. Addison and D.P. Graddon*, "Nickel Complexes of 3-Alkylacetylacetones." *The Australian Journal of Chemistry*, **21**, 2003-2012 (1968) [DOI: 10.1071/CH9682003]

D: Other Publications & Reports:

1. A.W. Addison, "3-Alkylacetylacetonate Complexes of Nickel(II)", Honours B.Sc. thesis, 1967, 74p.

2. A. W. Addison, "Rhodium(III) Chemistry: A Synthetical and Spectroscopic Study", Ph.D. thesis, 1970, 200p, appendices.

3. A. W. Addison, W. R. Cullen, D. H. Dolphin and B. R. James, Editors, "Biological Aspects of Inorganic Chemistry." (Book) Wiley-Interscience, 1977, 410pp, ISBN 0471021474. (The conference plenaries of the Zeroeth ICBIC !) ISBN 0-471-02147-4

4. B. R. James*, A. W. Addison, M. Cairns, D. Dolphin, N. P. Farrell, D. R. Paulson and S. Walker, "Progress in Dioxygen Complexes of Metalloporphyrins". In *Fundamental Research in Homogeneous Catalysis*, Vol. 3, M. Tsutsui., Ed., Plenum Press, 1979, pp. 751-772. ISBN 13: 9780306401992

5. A.W. Addison, J.P. Barnier, V. Gujral, Y. Hoyano, S. Huizinga and L. Weiler*, "The Design of New Organic Electron Acceptors". In "Molecular Metals", Ed. W.E. Hatfield, Plenum Press, New York, 1979 pp. 15-21. ISBN 13: 9780306401596

6. A.W. Addison, "Spectroscopic and Redox Trends From Model Systems", in "Copper Coordination Chemistry: Biochemical and Inorganic Perspectives", Eds. K.D. Karlin & J.A. Zubieta, Adenine Press, Guilderland, NY, 1983, pp109-128. ISBN 0-940030-03-9

7. A.W. Addison* and J.J. Stephanos, "Nitrosyliron(III) Hemoglobin: Autoreduction and Spectroscopy", *Revista Portuguesa de Química*, **27**, 201-203 (1985).

8. A.W. Addison: North Atlantic Treaty Organization Research Report: "Synthesis, Structure, Spectroscopy and Electrochemistry of Copper Chelates with Benzimidazole-Thioether Ligands", August 1987.

9. A.W. Addison, J. Cunningham, I.L. Kamel & D. Kitinoja, "Progress Summary: Surface Modification of IOLs", March 1989 (proprietary document).

10. A.W. Addison, J. Cunningham, I.L. Kamel, D. Kitinoja & D. Jaron, "Progress Report: Preparation of Improved Intraocular Lens Materials", July 1989 (proprietary document).

11. A.W. Addison*, L.L. Borer & E. Sinn, "Small Molecule Models of Copper(II) Proteins, Especially those Involving Copper-Sulfur Bonding", in *Metallothioneins - Synthesis, Structure and Properties of Metallothioneins, Phytochelatins and Metal-Thiolate Complexes*, Eds. M. J. Stillman, C. F. Shaw III & K. T. Suzuki, VCH Publishers Inc., pp. 387-407, 1992. ISBN 0-89573-785-X; 3-527-28011-1

12. R. M. Giuliano & A. W. Addison, "The 30th ACS Middle Atlantic Regional Meeting", *Chemical & Engineering News* **74**, 36-42 (1996).

13. V.V. Pavlishchuk, S.V. Kolotilov, A.W. Addison, M.J. Prushan, R.J. Butcher & E. Sinn, Modeling of the Ni-Fe-center of Ni-CO-dehydrogenase by nickel complexes with thiazaligands", *Ukr. Biokhim. Zh.*, 73 (2001) 91-100.

14. Book: 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.
http://www.wiley.com/WileyCDA/WileyTitle/productCd-1118470443.html

15. Book: J. J. Stephanos* & A.W. Addison, "Electrons, Atoms and Molecules in Inorganic Chemistry: A Worked Examples Approach"; Academic Press, June 29th, 2017. ISBN 978 012 811 0485
https://www.elsevier.com/books/electrons-atoms-and-molecules-in-inorganic-chemistry/stephanos/978-0-12-811048-5