

**CURRICULUM VITAE: Dr. Daniel Bernard LEZNOFF**

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**Contact Details:**

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**Current Rank:** Professor, Tenured**Educational Background:**

DEGREES	COLLEGE/UNIVERSITY/ INSTITUTION	FIELD OF STUDY	YEAR
N/A	University of British Columbia	First Year Science	1987-88
N/A	Meiji University (Tokyo)	Chemistry/Japanese Language	1990-91
B.Sc., Honours	York University	Chemistry	1992
Ph.D.	University of British Columbia	Organometallic Chemistry	1997

**Academic Research and Industrial Experience:**

POSITIONS HELD	DATES	DEPARTMENT & INSTITUTION
NSERC USRA	May-Aug. 1989	Chemistry Department, York University (Prof. P. Shepson, Atmospheric Chem.)
NSERC USRA	May-Aug. 1991	Chemistry Department, York University (Prof. D. Stynes, Inorganic Chem.)
NSERC Post-Doctoral Fellow	Aug. 1997 – Aug. 1999	CNRS Condensed Materials Laboratory, Bordeaux (Prof. O. Kahn, Molecular Magnetism)
Assistant Professor	Sept. 1999 – Aug. 2004	Chemistry Department, Simon Fraser University
Associate Professor	Sept. 2004 – Aug. 2009	Chemistry Department, Simon Fraser University
Visiting Professor/ JSPS Senior Fellow	Jan.-Nov. 2007	Chemistry Department, Kyushu University (Prof. Ken Sakai, Host)
Professor	Sept. 2009-	Chemistry Dept., Simon Fraser University
Visiting Professor	July 2015-July 2016	Chemistry Department, University of Strasbourg (Prof. Jean Weiss, Host)
Invited University Professor	Oct. – Nov. 2017	
Invited Visiting Professor	July 2019-July 2020	Chemistry Department, University of Lyon 1 (Prof. Dominique Luneau, Host)

**Brief Description of Current Interests:**

Heterobimetallic coordination polymer network materials, targeting gas/vapour sensor applications (vapochromic and vapoluminescent, IR/Raman detection), birefringence, white-light emission, magnetic and negative-thermal expansion properties for a wide range of applications. Molecular magnetic materials. Gold-gold bonding and metal-metal bonds. New metallophthalocyanines with non-traditional metal centres and their redox chemistry and reactivity. Paramagnetic organometallic compounds and catalysts. Actinide chemistry.

**Research in Progress**

- Highly reduced, redox-active metal phthalocyanine complexes for small molecule activation and catalysis
- Phthalocyanines with non-traditional metals
- The use of gold-gold and other metallophilic interactions to control dimensionality in coordination polymers.
- Cyanometallate coordination polymers for magnetic, vapochromic, birefringent, emissive and other materials applications.
- Paramagnetic high-valent transition metal amido compounds as polymerization and oxidation catalysts.
- Actinide chemistry, including uranyl polymers and uranium-amido complexes

**Membership in Learned Societies:**

Canadian Society for Chemistry, Member since 1999; Fellow since 2015.  
 Japanese Chemical Society (2007-9) and Japanese Society for Coordination Chemistry, Member 2007-present  
 Institute for Research in Materials, Dalhousie University, Adjunct Member 2011-2017  
 ACS, Member 1992-2010.

**Awards, Citations and Honours:**

1988-92 10 Undergraduate Awards (available upon request)  
 1990-91 Meiji University (Tokyo) – York Univ. Exchange Program Scholarship  
 Nov. 1992 1<sup>st</sup> Prize, Natl. Japanese Language Speech Competition, Advanced Division  
 1992-97 Four Graduate Awards (available upon request)  
 1996-97 I.W. Killam Predoctoral Fellowship (UBC)  
 1992-96 NSERC 1967 Science and Engineering Scholarship (UBC)  
 1997-99 NSERC Post-Doctoral Fellowship (CNRS, Bordeaux, France)  
 2007-08 Japan Society for the Promotion of Science (JSPS) Invitation Fellowship  
 2009 SFU Faculty of Science Excellence in Teaching Award  
 2010 CSC - Strem Chemicals Award for Pure or Applied Inorganic Chemistry  
 2011 NSERC Accelerator Grant  
 2015 Fellow of the Chemical Institute of Canada (FCIC)  
 2016 SFU Excellence in Teaching Award (one of 3 university-wide)  
 2016 SFU Dean of Graduate Studies Award for Excellence in Supervision (one of 2 university-wide)  
 2017 Invited Professorship, University of Strasbourg  
 2020 Invited Visiting Professor, University of Lyon 1

**Record of Full-Time Personnel.*****Post-Doctoral Fellows:***

<u>Name</u>	<u>Dates</u>
Dr. Anjan Das	Jan. 2004-June 2005
Dr. Taramatee Ramnial	June 06 - Sept 2007
Dr. Cameron Forde	May 2008 - April 2009
Dr. Greg Cetnarowski	Jan. - Dec. 2009
Dr. Rachel Platel	Nov. 2011-Feb. 2013
Dr. Jeffrey Ovens	Jan. 2015-April 2017
Dr. Zahra Lotfi	Nov. 2016-July 2017
Dr. Wen Zhou	Sept. 2013 - present
Dr. Ryan Roberts	Sept. 2017-present

***Past M.Sc. (12) and Ph.D. (15) Graduates:***

<u>Name, Degree, Date, Selected Awards</u>
• Carolyn Shorrock, M.Sc. July 2003 <i>NSERC-PGS-A and C.D. Nelson Fellowship</i>
• Garry Mund, Ph.D., March 2004; <i>SFU FacSci Teaching Award</i>
• Neil Draper,* M.Sc. June 2004
• Kimberley Jantunen,* PhD June 2006; <i>LANL Seaborg Fellow 2003,2004</i>
• Farzad Haftbaradaran,* M.Sc. Aug. 2006
• Liang Ouyang, M.Sc., Dec. 2006
• Julie Lefebvre, Ph.D., March 2008; <i>NSERC-CGSD, NSERC PDF C.D. Nelson Fellowship; SFU Convocation Gold Medal</i>
• Michael Katz,* Ph.D., July 2009; <i>NSERC PGS-D, NSERC PDF CIC AGWIC., CCUCC Doctoral Award, SFU Governor General's Gold Medal, Reaxys Prize-runner-up, Quircks+Quarks Thesis Prize</i>
• Andrew Geisheimer,* M.Sc. April 2010
• Jasmine Korcok, M.Sc. Aug. 2010; <i>NSERC CGS-M</i>
• Edwin Wong, Ph.D. Feb 2012; <i>NSERC PGS-M, CGS-D, JSPS Fellow</i>
• Sebastian Temple, M.Sc. Feb 2012

- Zohreh Moatazedi, Ph.D. April 2013
- Cassandra Hayes,\* Ph.D. June 2013; *NSERC PGS-D*
- Jeffrey Ovens,\* Ph.D. Nov. 2014; *NSERC PGS-D, MITACS PDF*
- Zahra Lotfi, Ph.D. April 2015 (co-supervisor; Senior Supervisor J.Sonier, SFU Physics)
- Benson Jelier, Ph.D. April 2016; *NSERC PDF*
- Tara Connors,\* M.Sc. April 2016
- John Thompson, Ph.D. March 2017 (co-supervisor V. Williams, SFU Chem.); *SFU FacSci Teaching Award, Governor General's Gold Medal, CCUCC Doctoral Award*
- Ryan Roberts,\* Ph.D. July 2017
- Didier Savard, Ph.D. Jan. 2018; *NSERC PGS-D*
- Bryton Varju, M.Sc. Sept. 2018
- David Stevens, M.A.Sc. April 2019 (co-supervisor; Senior Supervisor B. Gray, SFU Engineering)
- Ania Sergeenko, Ph.D. June 2019
- David Yin, M.A.Sc. Sept. 2020 (co-supervisor; Senior Supervisor G. Chapman, SFU Engineering) *NSERC CGS-M*
- Khrystyna Heramsychuk, Ph.D. Dec. 2020 (co-supervisor; Senior Supervisor T. Storr, SFU Chem.); *MITACS Globalink Abroad*
- David Guan,\* M.Sc. June 2021

***Current Graduate Research Students:***

<u>Name, Degree Program</u>	<u>Thesis Topic</u>
Matthew Brown, Ph.D.* <sup>NSERC</sup>	Heterobimetallic actinide coordination polymer materials
Yumeela Ganga-Sah, Ph.D.	Early-transition metal phthalocyanine complexes
Declan McKearney, Ph.D. <sup>NSERC</sup>	Redox-active Metallo-phthalocyanine materials
Elahe Tajbakhsh (joint with J. Warren), M.Sc.	CO <sub>2</sub> electrocatalytic reduction with metallophthalocyanines
Jefferson Pells, Ph.D.*	Gold-containing coordination polymers for emissive sensory applications
Devon Mitchell, M.Sc.	Non-traditional metallophthalocyanine complexes and their optical properties
Steven Kidd, M.Sc.	Soluble metallophthalocyanines with non-traditional axial donors
Scheryn Lawson (joint with J. Warren), M.Sc.	Electrocatalysis with metallophthalocyanines
Shubhra Srivastava (joint with J. Warren)	Bismuth-containing coordination polymers
Khuong Ho (joint with V. Williams)	Emissive soft materials using aurophilic interactions

\* Natural Resources Canada Intern <sup>NSERC</sup> NSERC PGS or CGS Scholar

***Undergraduate Research Students and Graduate Exchange Students:***

Between 1999 and June 2021 in my lab there have been 9 Japanese, 1 British, 1 German, 1 Spanish/Colombian, 3 French and 1 Russian graduate exchange students/visiting scholars, 1 IIT-Bombay, 1 British and 1 Turkish undergrad. exchange students, 34 SFU 4<sup>th</sup> year research thesis students and 54 SFU undergraduate research assistants studying topics that span my research interests. Some students are co-authors on refereed journal publications. Details of specific research topics and names are available on request.

**Record of Professional Distinction:*****Professional Society Executive/Editorial Boards:***

- Chair, Vancouver Chemical Institute of Canada Local Section, Sept. 2000-2006, 2008-2009 (currently "Chemistry-in-Society Lecture Coordinator)
- Vice-Chair/Chair/Past-Chair/Member-at-Large, Inorganic Chemistry Division, Canadian Society for Chemistry, 2008-2016 (each position for a two-year term)
- Editorial Board Member/Associate Editor (from 2016), *Gold Bulletin* (Springer-Nature) journal, 2007-present.
- Editorial Advisory Board Member, *Canadian Journal of Chemistry*, Jan. 2009- present
- Editorial Advisory Board Member, *Inorganics (MDPI)*, March 2017- present
- Editorial Advisory Board Member, *Crystals (MDPI)*, Jan. 2020-present.
- Guest Editor, *Can. J. Chem.*, Special Issue in Honour of ABP Lever, 2014.
- International Advisory Board for Gold Conference Series, 2012-present.

***Selected Major Conference Organizing Committee/Symp. Organizer/Reviewing:***

- Organizing Comm. (Registration), 85th National CSC Conference, Vancouver, June 1-5, 2002.
- Symposium Co-organizer (with H. Kleinke, Waterloo). "Supramolecular and Solid-State Inorganic Materials", CSC 2002 Vancouver.
- Organizing Committee, International Gold Conference, Vancouver, Sept. 28-30, 2003; Limerick (Ireland), Sept. 3-7, 2006; Heidelberg (Germany), July 26-29, 2009; Tokyo, Sept. 5-8, 2012; Cardiff (Wales) July 26-29, 2015; Quebec City, July 2022
- Organizing Comm. (Abstracts), 21st Int'l Conf. on Organometallic Chemistry, Vancouver, July 25-30, 2004.
- International Advisory Committee for the Actinide Conference Series, Member, 2005-2008.
- Symposium Co-organizer (with K. Smith, UPEI and M. Aquino, St. FX). "Paramagnetic and Mixed-Valent Complexes in Organometallic and Inorganic Chemistry", CSC 2006 Halifax.
- Organiz. Committee, International Conference on Molecular Magnetism, Victoria, 2006.
- Organizing Committee, Japan-Canada Coordination Space Symposium, Banff, July 8-10, 2009.
- Conference Chair, Organizing Comm. - BC Inorganic Discussion Weekend, May 7-9, 2010, May 6-8, 2011.
- Symposium Co-organizer (with S. Telfer, Massey Univ. New Zealand and S. Cohen, UC-San Diego). "Functional Coordination Polymers", Pacificchem 2010, Honolulu, Dec. 10-15, 2010.
- Co-Organizer, 2<sup>nd</sup> and 4<sup>th</sup> Canada-Japan Joint Symposium on Coordination Chemistry, Okinawa (Nov. 1-3, 2013) and Kyushu (Nov. 28-Dec. 2, 2017)
- Symposium Co-organizer (with C. Orvig, UBC), "Symposium in Honour of Barry Lever's Founding of Coord. Chem. Rev.", CSC 2019, Quebec City.
- Symposium Co-organizer (with T. Kitazawa (Toho Univ., Japan), Y. Habata (Japan), S.S. Lee (Geongsang Nat'l Univ, South Korea), Gang Wei (CSIRO, Australia)). "Triggering Assembly of Supramolecular Coordination Compounds", Pacificchem 2021, Honolulu, Dec. 16-21, 2021.
- Symposium Co-organizer (with M. Kato (Hokkaido), H. Ito, K. Ishii, M. Hasegawa (Japan) and Vivian Yam, Hong Kong). "Soft Crystals", Pacificchem 2021, Honolulu, Dec. 16-21, 2021.
- Scientific Program Chair, CSC 2014 (Canadian Society for Chemistry Conference), Vancouver.
- NSERC Chemistry GSC Member 2014-2017
- NSERC SFU Leaders Council Rep. 2020-21
- Chair, NSERC-CRD Site Visit Evaluation Committee (May 2017)
- External Reviewer, Brock University Chemistry Dept. (May 2019)
- External Examiner for 17 Ph.D. and 4 M.Sc. theses since 2004 in Canada, France, Italy and South Africa.
- Reviewer for NSERC (Discovery, Strategic, I2I, MFA), MITACS, NSF, Research Corp., ACS-PRF, US-DOE, A-STAR-Singapore, Polish Academy of Sciences, South Africa Science grant agencies ( $\approx$  10 grants/year), Science, JACS, Angew. Chemie., Chem. Mater., J. Mater. Chem. and all inorg. chem. journals ( $\approx$  30 papers/year).
- Simon Fraser University Faculty Senator (2008-2023); Vice-Chair of Senate 2014-2015 and Chair of Senate Committee on Undergraduate Studies 2018. Numerous Dept. and other SFU committees (details upon request)
- SFU Chemistry Dept. Undergraduate Studies Committee Chair, 2009-present.

**Record of Invited Talks** (titles and exact dates available upon request)

**Conferences. 2021:** Pacifichem (Triggering Assemblies symposium; Soft Crystals Symposium); **2019:** SFU-Strasbourg Joint Symposium, Strasbourg; Porphyrin "Mapyro" Network Workshop, Lyon; Int'l Conf. on Advanced Materials, Nanoscience and Applications, Oujda, Morocco; **2018:** Int'l Conf. on Porphyrins and Phthalocyanines, Munich, Germany. **2017:** Fryzuk-65 Symposium, Vancouver; Alberta-BC Inorganic Discussion Weekend, Kelowna; Can-BIC (Advances in Porphyrin Chemistry Symp.); CSC2017 (Metal and covalent-organic framework Symposium); Japan-Canada Coordination Chemistry Symp., Fukuoka. **2015:** CSC2015 (Magnetic and Conducting Materials Symposium; Canada-UK Joint Inorganic Symposium), Ottawa; Int'l Conf. on Advanced Complex Inorganic Nanomaterials, Belgium. **2014:** CSC2014 (Supramolecular Coord. Chem. Symposium), Vancouver; Int'l Conference on Porphyrins and Phthalocyanines, Istanbul; Tohoku Univ. Int'l Symposium on Porphyrins and Phthalocyanines, Sendai Japan. **2013:** Can-BIC (Advances in Porphyrin Chemistry Symp.), Parry Sound; CSC 2013 (Supramolecular Materials Symp.), Quebec City; Int'l Conf. on Materials for Advanced Technologies - ICMAT 2013 (Crystal Engineering Symp.), Singapore; Japan-Canada Coordination Chemistry Symposium, Okinawa. **2012:** Canadian Magnetism Meeting, Calgary; CSC 2012 (Lever Symp. and Ligand Design Symp.), Calgary; **2011:** Int'l Muon Spin Rotation, Relaxation and Resonance Conf (Keynote Speaker), Cancun; CSC 2011 (Metallosupramolecular Assemblies Symp.), Montreal; **2010:** Pacifichem (2 lectures), Honolulu; Molec./Nanoscale Magnetism, Orlando; Eastern Canada Magnetism, Guelph; CSC 2010 (Puddephatt Symp. and Strem Award lecture), Toronto; **2009:** Japan-Canada Coordination Space Symp., Banff; CSC 2009 (Multi-metallic Complexes Symp.) Hamilton; **2007:** Symp. on Advanced Functional Materials, Hyogo, Japan; Chem. Soc. of Japan Annual Conf., Osaka; **2006:** Gold2006, Ireland; ACS Northwest Regional Meeting (Luminescence of Transition-metal Complexes Symp.), Reno; **2005:** Singapore Int'l Chemical Conf. SICC-4 (Supramolecular Chem. Symp.); CSC2005 (Metal-containing polymers and macrocycles symp.), Saskatoon; BC Inorganic Discussion Weekend (Plenary), Victoria; ACS (Metal Cyanides symp.), San Diego; **2003:** CSC/IUPAC (Crystal engineering/advanced materials symp.), Ottawa; **2001:** ACS Northwest Regional, Seattle.

**Academic and Research Institutions. 1997-2000:** 10 Lectures mostly in Europe/Japan, prior to starting at SFU (available upon request). **2001-2003:** Tokyo Science University (Japan) x2 visits, Simon Fraser University, University of Alberta, University of British Columbia, University of Tokyo, Shizuoka University (Japan). **2004-2005:** York University (Toronto), Nagasaki University (Japan), Hyogo University (Japan), University of Oregon, University of Windsor, Sophia University (Japan). **2006-2007:** University of Calgary, University of Tsukuba (Japan; 2 lectures), Kyushu Univ. (Japan; 2 lectures), Tokyo Institute of Technology, Nagasaki University (Japan), Aoyama Gakuin University (Japan), Tokyo University of Agriculture & Technology, Tohoku University (Japan). **2008-2009:** Tohoku University (Japan), Kyushu University (Japan), University of Alberta. **2010:** Univ. Washington (Seattle), Strem Lecture Tour (4 talks, Sept. 28-Oct. 1): Memorial (St. John's), St. Mary's, St. Francis Xavier, Dalhousie Universities; Xerox Research Centre (Mississauga), Univ. Saskatchewan, Univ. Manitoba. **2011:** Univ. British Columbia, Univ. Manitoba, TRIUMF, Queen's University. **2012:** Kyushu Univ. (Japan), Tohoku Univ. (Japan), Kyoto Univ. (Japan), Ibaraki Univ. (Japan), Tokyo Univ., Shizuoka Univ. (Japan), Univ. Montreal. **2013-14:** Simon Fraser, Lethbridge. **2015:** Ottawa, Western Washington, Strasbourg (2 lectures). **2016:** Strasbourg (France; 5 lectures); Mainz (Germany); Bourgogne-Franche Comte Dijon (France); Basel (Switzerland); St. Andrews (Scotland); Univ. Pierre/Marie Curie Paris (France); Marseille (France). **2017:** Calgary; Windsor; Strasbourg (2 lectures). **2018:** McMaster; Brock. **2019:** Lyon (France), ENS-Lyon. **2020:** Lyon (x2) **2021:** McMaster (remotely).

• Contributed lectures at CSC2001 Montreal, CSC2002 Vancouver, CSC2003 Ottawa, CSC2004 London, CSC2005 Halifax, CSC2017 Toronto, CSC2018 Edmonton, CSC2019 QC; Int'l Actinides Conference 2001, Hayama (Japan), Int'l Conference on Magnetic Molecular Materials, Valencia (Spain) 2002, Int'l GOLD 2003 Vancouver, GOLD 2009 Heidelberg, GOLD 2012 Tokyo, GOLD 2015 Cardiff; GOLD 2018 Paris; Int'l Conf. on Materials for Advanced Technologies 2003, Singapore. My students have presented over 120 oral/poster presentations since 1999. Full details and title list available upon request.

**Teaching Experience**

At SFU, I have taught: CHEM 120-3/121-4 *General Chemistry I*; CHEM 192-3 *Chemistry in your Home, Work and Environment*; CHEM 230-3 *Inorganic Chemistry*; CHEM 332-3 *Chemistry of Transition Metals*; CHEM 333-3 *Bio-inorganic Chem.*; CHEM 399-3 *Chemistry of Consumer Products*; CHEM 432-3 *Organometallic Chem.*; CHEM 439-3 *Spectroscopy and Magnetism in Inorganic Chem.*; CHEM 481/483-5 *Undergraduate Research* (29 students); CHEM 482-3 *Directed Study Courses* in Medicinal Inorganic Chem., Actinide Chem., Supramolecular Coord. Polymers, Lanthanide Chem. and Organic Radical-Based Molecular Magnets; CHEM 801-3 *Graduate Seminar*; CHEM 802-3 *M.Sc. Research Proposal and Examination*; CHEM 805-3 *Research Thesis Proposal*; CHEM 808-3 *Ph.D. Candidacy Exam Course*.

**Publication List****Refereed Journal Publications from SFU research** (7 Conf. Proceedings, 15 Ph.D./PDF pubs details on request)

16. Leznoff, D.B.; Xue, B.-Y.; Stevens, C.L.; Storr, A.; Thompson, R.C.; Patrick, B.O. "Synthesis, structure and magnetic properties of 3-D interpenetrating nets of M(pyrazine)[Au(CN)<sub>2</sub>]<sub>2</sub> (M = Cu, Ni, Co) supported by aurophilic interactions", *Polyhedron*, **2001**, *20*, 1247-1254. (Special Issue, Molecular Magnetism, ICMM 2000)
17. Leznoff, D.B.; Xue, B.-Y.; Patrick, B.O.; Sanchez, V.; Thompson, R.C. "An aurophilicity-determined 3-D bimetallic coordination polymer: Using [Au(CN)<sub>2</sub>]<sup>-</sup> to increase structural dimensionality through gold•••gold bonds in (tmeda)Cu[Au(CN)<sub>2</sub>]<sub>2</sub>", *J. Chem. Soc., Chem. Commun.* **2001**, 259-260.
18. Leznoff, D.B.; Xue, B.-Y.; Batchelor, R.J.; Einstein, F.W.B.; Patrick, B.O. "Gold-gold interactions as crystal engineering design elements in heterometallic coordination polymers", *Inorg. Chem.*, **2001**, *40*, 6026-34.
19. Mund, G.; Batchelor, R. J.; Sharma, R.D.; Jones, C.H.W.; Leznoff, D.B. "{FeCl[<sup>-</sup>BuN(SiMe<sub>2</sub>)<sub>2</sub>O]<sub>2</sub>}: The first multinuclear Iron(III) System Exhibiting Spin-Admixture." *Dalton Trans.*, **2002**, 136-137.
20. Leznoff, D.B.; Mund, G.; Jantunen, K.C.; Bhatia, P.; Gabert, A.J.; Batchelor, R.J. "Diamidoether Complexes of Uranium and Transition-Metals." *J. Nucl. Sci. Tech.*, Supplement 3, **Nov. 2002**, 406-409.
21. Shorrock, C.J.; Xue, B.-Y.; Kim, P.B.; Batchelor, R.J.; Patrick, B.O.; Leznoff, D.B. "Heterobimetallic coordination polymers incorporating [M(CN)<sub>2</sub>]<sup>-</sup> (M=Cu, Ag) and [Ag<sub>2</sub>(CN)<sub>3</sub>]<sup>-</sup> units: Increasing structural dimensionality via M-M' and M•••NC interactions." *Inorg. Chem.*, **2002**, *41*, 6743-53.
22. Mund, G.; Gabert, A.J.; Batchelor, R.J.; Britten, J.F.; Leznoff, D.B. "A rare ether-bridged cobalt complex which gives rise to an unusual 'serpentine' metal-ligand binding motif." *Chem. Commun.*, **2002**, 2990-91.
23. Clot, O.; Akahori, Y.; Moorlag, C.; Leznoff, D.B.; Wolf, M.O.; Batchelor, R.J.; Patrick, B.O.; Ishii, M. "Model complexes for metallated polythiophenes: Gold(I) and palladium(II) complexes of bis(diphenylphosphino)oligothiophenes." *Inorg. Chem.*, **2003**, *42*, 2704-2713.
24. Leznoff, D.B.; Draper, N.D.; Batchelor, R.J. "Using HgX<sub>2</sub> units (X = Cl, CN) to increase structural and magnetic dimensionality in conjunction with (2,2'-bipyridyl)copper(II) building blocks" *Polyhedron*, **2003**, *22*, 1735-1743. (Special Issue on Molecular Magnetism, ICCM 2002)
25. Draper, N.D.; Batchelor, R.J.; Sih, B.C.; Ye, Z.-G.; Leznoff, D.B. "Synthesis, structure and properties of (tmeda)Cu[Hg(CN)<sub>2</sub>]<sub>2</sub>[HgCl<sub>4</sub>]: A non-centrosymmetric 2-D layer structure that exhibits strong optical anisotropy." *Chem. Mater.*, **2003**, *15*, 1612-1616.
26. Shorrock, C.J.; Jong, H.; Batchelor, R.J.; Leznoff, D.B. "[Au(CN)<sub>4</sub>]<sup>-</sup> as a supramolecular building block for heterobimetallic coordination polymers" *Inorg. Chem.*, **2003**, *42*, 3917-3924.
27. Haftbaradaran, F.; Leznoff, D.B.; Williams, V.E. "A strained silver(I) coordination polymer of 1,4-diazatriphenylene", *J. Chem. Soc., Dalton Trans.*, **2003**, 2105-2106.
28. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 19, 2003.  
Mund, G.; Vidovic, D.; Batchelor, R.J.; Britten, J.F.; Sharma, R.D.; Jones, C.H.W.; Leznoff, D.B. "Unusual iron "ate" complexes stabilized by Li-π interactions." *Chem. Eur. J.*, **2003**, *9*, 4757-4763.
29. Telfer, S.G.; Sato, T.; Kuroda, R.; Lefebvre, J.; Leznoff, D.B. "Dinuclear Complexes of Chiral Tetradentate Pyridyl-imine Ligands: Diastereoselectivity, Positive Cooperativity, Ligand Self Sorting Based on Chirality, and Magnetism", *Inorg. Chem.*, **2004**, *43*, 421-429.
30. Jantunen, K.C.; Batchelor, R.J.; Leznoff, D.B. "Synthesis, Characterization and Organometallic Derivatives of Diamidosilyl Ether Thorium(IV) and Uranium(IV) Halide Complexes", *Organometallics*, **2004**, *23*, 2186-2193.
31. Draper, N.D.; Batchelor, R.J.; Leznoff, D.B. "Tuning the Structures of Mercury Cyanide-based Coordination Polymers with Transition Metal Cations" *Crystal Growth and Design*, **2004**, *4*, 621-632.
32. Telfer, S.G.; Sato, T.; Harada, T.; Kuroda, R.; Lefebvre, J.; Leznoff, D.B. "Mono- and Dinuclear Complexes of Chiral Tri- and Tetradentate Schiff-base Ligands Derived from 1,1'-Binaphthyl-2,2'-diamine (BINAM)", *Inorg. Chem.*, **2004**, *43*, 6168-6176.
33. Draper, N.D.; Batchelor, R.J.; Aguiar, P.M.; Kroeker, S.; Leznoff, D.B. "Factors Affecting the Solid-State Structure and Dimensionality of Mercury Cyanide/Chloride Double Salts, and NMR Characterization of Coordination Geometries" *Inorg. Chem.*, **2004**, *43*, 6557-6567.
34. Lefebvre, J.; Batchelor, R.J.; Leznoff, D.B. "Cu[Au(CN)<sub>2</sub>]<sub>2</sub>(DMSO)<sub>2</sub>: Golden Polymorphs that Exhibit Vapochromic Behaviour" *J. Am. Chem. Soc.*, **2004**, *126*, 16117-16125.
35. Leznoff, D.B. and Lefebvre, J. "Coordination Polymers with Cyanoaurate Building Blocks: Potential New Industrial Applications for Gold", *Gold Bulletin*, **2005**, *38*, 47-54.
36. Haftbaradaran, F.; Mund, G.; Batchelor, R.J.; Britten, J.F.; Leznoff, D.B. " Synthesis of mixed-donor amido/amino/siloxo ligands from symmetrical diamidosilylether ligands via a retro-Brook rearrangement and their chromium(II) complexes" *Dalton Trans.*, **2005**, 2343-2345.
37. Jantunen, K.C.; Haftbaradaran, F.; Katz, M.J.; Batchelor, R.J.; Schatte, G.; Leznoff, D.B. "Synthesis and Structure of Diamido Ether Uranium(IV) and Thorium(IV) Halide "Ate" Complexes and their Conversion to Salt-Free Bis-Alkyl Complexes", *Dalton Trans.*, **2005**, 3083-3091.
38. Draper, N.D.; Katz, M.J.; Batchelor, R.J.; Leznoff, D.B. "Structural Pitstops and Turnoffs on the Way to the Birefringent 2-D Layer Structure {M(tmeda)[Hg(CN)<sub>2</sub>]<sub>2</sub>}[HgCl<sub>4</sub>]", *J. Inorg. Organomet. Poly. Mat.*, **2005**, *15*, 447-458. (Special issue in honour of R.J. Puddephatt)

39. Katz, M.J.; Shorrock, C.J.; Batchelor, R.J.; Leznoff, D.B. "[Au(CN)<sub>4</sub>]<sup>-</sup> as both an intramolecular and intermolecular bidentate ligand with {(tmeda)Cu(μ-OH)}<sub>2</sub> dimers: From Antiferro- to Ferromagnetic coupling in Polymorphs", *Inorg. Chem.*, **2006**, *45*, 1757-1765.
40. Ouyang, L.; Aguiar, P.M.; Batchelor, R.J.; Kroeker, S.; Leznoff, D.B. "A Paramagnetic Cu<sup>I</sup>/Cu<sup>II</sup>/Zn<sup>II</sup> Coordination Polymer with Multiple CN-Binding Modes and its Solid-State NMR Characterization", *Chem. Commun.*, **2006**, 744-746.
41. Katz, M.J.; Aguiar, P.M.; Batchelor, R.J.; Bokov, A.; Ye, Z.-G.; Kroeker, S.; Leznoff, D.B. "Structure and Multinuclear Solid-State NMR of a Highly Birefringent Lead Gold Cyanide Coordination Polymer " *J. Am. Chem. Soc.*, **2006**, *128*, 3669-3676
42. Wong, E.; Das, A.K; Katz, M.J.; Nishimura, Y.; Onishi, M.; Batchelor, R.J.; Leznoff, D.B. "Diamidoether complexes of Yttrium(III) and Chromium(III): Synthetic challenges and surprises" *Inorg. Chim. Acta*, **2006**, *359*, 2826-2834. (Special Issue in honour of B.R. James)
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