

**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	Chemistry Department, University of Strasbourg (Prof. Jean Weiss, Host)
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  
Society of Porphyrins and Phthalocyanines, Member since 2014  
American Chemical Society (ACS), Member from 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
2022	SFU Faculty of Science Excellence in Teaching Award - Course Team (with R. Batchelor, J. Warren)

**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 - Aug. 2022
Dr. Ryan Roberts	Sept. 2017-present
Dr. Mohammadreza Moharamzadeh	April 2022-present
Dr. Declan Roshea (McKearney)	Sept. 2022-present
Dr. Yumeela Ganga-Sah	Sept. 2023-present

***Past M.Sc. (13) and Ph.D. (16) 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; <i>NSERC PGS-D</i>
• Jeffrey Ovens,* Ph.D. Nov. 2014; <i>NSERC PGS-D, MITACS PDF</i>
• Zahra Lotfi, Ph.D. April 2015 (co-supervisor; Senior Supervisor J.Sonier, SFU Physics)
• Benson Jelier, Ph.D. April 2016; <i>NSERC PDF</i>
• Tara Connors,* M.Sc. April 2016
• John Thompson, Ph.D. March 2017 (co-supervisor V. Williams, SFU Chem.); <i>SFU FacSci Teaching Award, Governor General's Gold Medal, CCUCC Doctoral Award</i>
• Ryan Roberts,* Ph.D. July 2017
• Didier Savard, Ph.D. Jan. 2018; <i>NSERC PGS-D</i>
• 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)
<i>NSERC CGS-M</i>

- Khrystyna Heramsychuk, Ph.D. Dec. 2020 (co-supervisor; Senior Supervisor T. Storr, SFU Chem.); *MITACS Globalink Abroad*
- David Guan, \* M.Sc. June 2021
- Elahe Tajbakhsh, M.Sc. August 2021 (co-supervisor J. Warren, SFU Chem.)
- Matthew Brown, \* Ph.D. Dec. 2021; *NSERC CGS-M and PGS-D, ACA Margeret C. Etter Student Lecturer Awd*
- Declan Roshea (McKearney), Ph.D. June 2022; *NSERC PGS-D*.
- Yumeela Ganga-Sah, Ph.D. July 2023
- Scheryn Lawson, M.Sc. Dec. 2023 (co-supervisor J. Warren, SFU Chem.)

**Current Graduate Research Students:**

Name, Degree Program	Thesis Topic
Rachel Sailor, M.Sc.	Early-transition metal phthalocyanine complexes
Jefferson Pells, Ph.D.*	Gold-containing coordination polymers for emissive sensory applications
Steven Kidd (joint with J. Warren), Ph.D.* <sup>NSERC</sup>	Soluble metallophthalocyanines with non-traditional axial donors
Megan Lee (joint with T. Storr), M.Sc.	Reactivity of non-traditional metallophthalocyanines
Shubhra Srivastava (joint with J. Warren), M.Sc.	Bismuth-containing coordination polymers
Khuong Ho (joint with V. Williams), M.Sc.	Emissive soft materials using aurophilic interactions
Leanna Karn, <sup>NSERC</sup> Ph.D.	Cyanoplatinate Coordination Polymers
Thomas Karpiuk, Ph.D.	F-element Cyanometallate Coordination Polymers
Alex Donald, M.Sc.	Electrocatalysis using metallophthalocyanines with non-traditional metals

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

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

Between 1999 and Dec. 2023 in my lab there have been 9 Japanese, 1 British, 1 German, 1 Spanish/Colombian, 4 French, and 1 Russian graduate exchange students/visiting scholars, 3 Indian (IIT or IISER), 1 British and 1 Turkish undergrad. exchange students, 37 SFU 4<sup>th</sup> year research thesis students and 66 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, 2007-2022.
- 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.
- Organize. 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.
- Symposium Co-organizer (with T. Kitazawa (Toho Univ., Japan), S. Brooker (NZ), T. Kosone (Japan)). "Opening Future in Triggered Assembling Functional Supramolecular Coordination Compounds", Pacificchem 2025, Honolulu, Dec. 15-20, 2025.
- Symposium Organizer (with T. Furuyama (Kanazawa Univ., Japan) and V. Nemykin (Univ. Tennessee). "The Phthalocyanine Renaissance", Pacificchem 2025, Honolulu, Dec. 15-20, 2025.
- Symposium Co-organizer (with M. Katz, Memorial), "Coordination polymers, MOFs and Supramolecular Inorganic Chemistry", CSC 2024, Winnipeg.
- Scientific Program Chair, CSC 2014 (Canadian Society for Chemistry Conference), Vancouver.
- NSERC Chemistry GSC Member 2014-2017
- NSERC SFU Leaders Council Rep. 2020-25
- 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 Board of Governors Member, 2022-2025
- Simon Fraser University Faculty Senator (2008-2026); 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. 2024:** Int'l Conf. on Porphyrins and Phthalocyanines, Niagara Falls, USA. **2023:** Kanazawa Int'l Symposium, Kanazawa, Japan; Can-BIC (Advances in Porphyrin Chemistry Symp.), Parry Sound; **2022:** Electrochemical Society Meeting, Vancouver; Int'l Conf. on Porphyrins and Phthalocyanines, Madrid, Spain; **2021:** Pacificchem (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:** Pacificchem (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). **2023**: Ibaraki (Japan)

• Contributed lectures at CSC2001 Montreal, CSC2002 Vancouver, CSC2003 Ottawa, CSC2004 London, CSC2005 Halifax, CSC2017 Toronto, CSC2018 Edmonton, CSC2019 QC; CSC2021 Virtual; Int'l Conf. on Porphyrins and Phthalocyanines, Virtual 2021; Germany.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; GOLD 2022 Quebec City; 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 236W-3 *Inorganic Chemistry Laboratory*; 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* (37 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*; CHEM 839-3 *Supramolecular Inorganic Chemistry*.

### Publication List

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

- 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)
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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)
- 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>][HgCl<sub>4</sub>]: A non-centrosymmetric 2-D layer structure that exhibits strong optical anisotropy." *Chem. Mater.*, **2003**, *15*, 1612-1616.
- 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.
- 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.
- \*\*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.
- 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.
- 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 diamidosilyloether 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.; Shorrocks, 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/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)
43. \*\*Featured on the cover of *Inorganic Chemistry*, Vol. 45, Issue 12, June 12, 2006.  
Telfer, S.G.; Kuroda, R.; Lefebvre, J.; Leznoff, D.B. "Boxes, Helicates, & Polymers: The Diverse Metallo-Supramolecular Chemistry Of Simple Pyridine-Alcohol Ligands", *Inorg. Chem.*, **2006**, *45*, 4592-4601
44. Leznoff, D.B.; Katz, M.J.; Cheng, L.K.L.; Draper, N.D.; Batchelor, R.J. "The perils and opportunities of reactive building blocks: Attempted synthesis of new HgCN<sub>2</sub>-based coordination polymers and the structures of the resulting products." *J. Mol. Struct.*, **2006**, *796*, 223-229. (Invited paper to a special issue on coordination polymers).
45. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 26, 2006. Lefebvre, J.; Callaghan, F.; Katz, M.J.; Sonier, J.E.; Leznoff, D.B. "A New Basic Motif in Cyanometallate Coordination Polymers: Structural and Magnetic Properties of M(μ-OH)<sub>2</sub>[Au(CN)<sub>2</sub>]<sub>2</sub> (M = Cu, Ni)" *Chem. Eur. J.*, **2006**, *12*, 6748-6761.
46. Hatnean, J.; Raturi, R.; Lefebvre, J.; Leznoff, D.B.; Lawes, G.; Johnson, S.A. "Assembly of Triangular Trimetallic Complexes by Triamidophosphine Ligands: Spin-Frustrated Mn<sup>2+</sup> Plaquettes and Diamagnetic Mg<sup>2+</sup> Analogues with a Combined Through-Space Through-Bond Pathway for <sup>31</sup>P-<sup>31</sup>P Spin-Spin Coupling", *J. Am. Chem. Soc.*, **2006**, *128*, 14992-14999.
47. Lefebvre, J.; Chartrand, D.; Leznoff, D.B. "Synthesis, structure and magnetic properties of 2-D and 3-D [cation]{M[Au(CN)<sub>2</sub>]<sub>3</sub>} (M=Ni, Co) coordination polymers". *Polyhedron*, **2007**, *26*, 2189-99. (Special Issue on Molecular Magnetism, ICCM 2006)
48. Das, A.K.; Moatazed, Z.; Mund, G.; Batchelor, R.J.; Bennett, A.J.; Leznoff, D.B. "Chelating or Bridging? Halide-Controlled Binding Mode of Diamidodonor Ligands in Iron(III) Complexes" *Inorg. Chem.*, **2007**, *46*, 366-368.
49. Leznoff, D.B.; Shorrocks, C.J.; Batchelor, R.J. "Coordination Polymers with [Au(CN)<sub>4</sub>]<sup>-</sup> Building Blocks: A 1-D Chain of Molecular Ni<sup>II</sup>Au<sup>III</sup> Squares" *Gold Bulletin*, **2007**, *40*, 36-39. (Invited for Gold 2006 Issue)
50. White, A.P.; Robertson, K.N.; Cameron, T.S.; Liengme, B.V.; Leznoff, D.B.; Trudel, S.; Aquino, M.A.S. "Synthesis and Characterization of [M(DMSO)<sub>6</sub>][SnCl<sub>6</sub>] Complexes (M = Fe<sup>2+</sup>, Co<sup>2+</sup> and Ni<sup>2+</sup>): An Old Mystery Solved", *Can. J. Chem.*, **2007**, *85*, 372-378.
51. Katz, M.J.; Kaluarachchi, H.; Batchelor, R.J.; Schatte, G.; Leznoff, D.B. "A Concert of Weak Interactions Generates the very Complex {Cu(tmEDA)[Au(CN)<sub>4</sub>]<sub>2</sub>·1/3 H<sub>2</sub>O} Structure" *Cryst. Growth Des.*, **2007**, *7*, 1946-48.
52. Geisheimer, A.; Katz, M.J.; Batchelor, R.J.; Leznoff, D.B. "Preparation and characterization of two chiral Au(CN)<sub>2</sub>-based coordination polymers containing (1*R*,2*R*)-*N,N'*-Dimethylcyclohexanediamine" *CrystEngComm.*, **2007**, *9*, 1078-1083.
53. \*\*Featured on the inside cover of *Angew. Chemie*, Vol. 46, Issue 46, *C&E News* and *Chem. World*.  
Katz, M.J.; Kaluarachchi, H.; Batchelor, R.J.; Bokov, A. A.; Ye, Z.-G.; Leznoff, D.B. "Highly Birefringent Materials Designed Using Coordination Polymer Synthetic Methodology" *Angew. Chem. Intl. Ed.*, **2007**, *46*, 8804-8807.
54. Raturi, R.; Lefebvre, J.; Leznoff, D.B.; McGarvey, B.R.; Johnson, S.A., "A Phosphine-Mediated Through-Space Exchange Coupling Pathway for Unpaired Electrons in a Heterobimetallic Lanthanide-Transition Metal Complex", *Chem. Eur. J.*, **2008**, *14*, 721-730.
55. Telfer, S.G.; Parker, N.D.; Kuroda, R.; Harada, T.; Lefebvre, J.; Leznoff, D.B. "Helicates, Boxes and Polymers from Simple Pyridine-Alcohol Ligands: Impact of the Identity of Transition Metal Ions", *Inorg. Chem.*, **2008**, *47*, 209-218.
56. Haftbaradaran, F.; Kuchison, A.M.; Katz, M.J.; Schatte, G.; Leznoff, D.B. "Synthesis, structures and kinetics of mixed-donor amido-amino-siloxo ligands from symmetrical diamidosilyl ether ligands via a retro-Brook rearrangement", *Inorg. Chem.*, **2008**, *47*, 812-822.
57. Katz, M.J.; Michaelis, V.K.; Aguiar, P.; Yson, R.; Lu, H.; Kaluarachchi, H.; Batchelor, R.J.; Schreckenbach, G.; Kroeker, S.; Patterson, H.H.; Leznoff, D.B. "Structural and spectroscopic impact of tuning the stereochemical activity of the lone pair in lead(II) cyanoaurate coordination polymers via ancillary ligands" *Inorg. Chem.*, **2008**, *47*, 6353-63.

58. Katz, M.J.; Ramnial, T.; Yu, H.Z.; Leznoff, D.B. "Polymorphism of  $Zn[Au(CN)_2]_2$  and its luminescent sensory response to  $NH_3$  vapour." *J. Am. Chem. Soc.*, **2008**, *130*, 10662-10673.
59. Katz, M.J.; Sakai, K.; Leznoff, D.B. "The Use of Auophilic and Other Metal-Metal Interactions as Crystal Engineering Design Elements to Increase Structural Dimensionality", *Chem. Soc. Rev.*, **2008**, *37*, 1884-1895. (Invited review for special issue on Gold Chemistry)
60. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 14, 2008
- Lefebvre, J.; Trudel, S.; Hill, R.H.; Leznoff, D.B. "A Closer Look: Magnetic behaviour of a 3-D cyanometalate coordination polymer dominated by a trace nanoparticle impurity". *Chem. Eur. J.*, **2008**, *14*, 7156-7167.
61. Lefebvre, J.; Tyagi, P.; Trudel, S.; Pacradouni, V.; Sonier, J.; Leznoff, D.B. "Magnetic frustration and spin disorder in isostructural  $M(\mu-OH_2)_2[Au(CN)_2]_2(H_2O)_2$  ( $M=Mn, Fe, Co$ ) coordination polymers containing double aqua-bridged chains: SQUID and  $\mu Sr$  studies", *Inorg. Chem.*, **2009**, *48*, 55-67.
62. Korcok, J.L.; Katz, M.J.; Leznoff, D.B. "The impact of metallophilicity on colossal positive and negative thermal expansion in a series of isostructural dicyanometallate coordination polymers", *J. Am. Chem. Soc.*, **2009**, *131*, 4866-4871.
63. Aguiar, P.M.; Katz, M.J.; Leznoff, D.B.; Kroeker, S. "Natural Abundance  $^{13}C$  and  $^{15}N$  Solid-State NMR Analysis of Paramagnetic Transition-Metal Cyanide Coordination Polymers", *Phys. Chem. Chem. Phys.*, **2009**, *11*, 6925-6934.
64. Katz, M.J.; Leznoff, D.B. "Highly birefringent cyanoaurate coordination polymers: The effect of polarizable C-X bonds", *J. Am. Chem. Soc.*, **2009**, *131*, 18435-18444.
65. Hayes, C.E.; Leznoff, D.B. "Diamido-Uranium(IV) Alkyl Complexes as single component ethylene polymerization catalysts", *Organometallics*, **2010**, *29*, 767-774.
66. Wong, E.W.Y.; Walsby, C.J.; Storr, T.; Leznoff, D.B. "Phthalocyanine as a chemically inert, redox-active ligand: Structural and electronic properties of a Nb(IV)-oxo complex incorporating a highly-reduced phthalocyanine(4-) anion", *Inorg. Chem.*, **2010**, *49*, 3343-3350.
67. Moatazedi, Z.; Katz, M.J.; Leznoff, D.B. "Synthesis and characterization of a series of halide-bridged, multinuclear iron(II) and cobalt(II) diamido complexes and a dinuclear, high-spin cobalt(II) alkyl derivative", *Dalton Trans.*, **2010**, *39*, 9889-9896.
68. Ovens, J.; Geisheimer, A.; Bokov, A.; Ye, Z.-G.; Leznoff, D.B. "The use of polarizable  $[AuX_2(CN)_2]^-$  ( $X = Br, I$ ) building blocks towards the formation of birefringent coordination polymers", *Inorg. Chem.*, **2010**, *49*, 9609-9616.
69. Baril-Robert, F.; Li, X.; Geisheimer, A.; Katz, M.J.; Leznoff, D.B.; Patterson, H.H., "Changes in electronic properties of polymeric 1D  $\{[M(CN)_2]_n\}$  ( $M=Au, Ag$ ) chains due to neighboring closed-shell Zn(II) or open-shell Cu(II) ions", *Inorg. Chem.*, **2011**, *50*, 231-237.
70. Geisheimer, A.; Wren, J.; Michaelis, V.; Kobayashi, M.; Sakai, K.; Kroeker, S.; Leznoff, D.B. "Aggregation of  $[Au(CN)_4]^-$  anions: Detection by  $^{15}N$  CP-MAS NMR and the structural factors influencing intermolecular  $Au\cdots N$  interactions", *Inorg. Chem.*, **2011**, *50*, 1265-1274.
71. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 13, 2011. Greer, B.J.; Michaelis, V.K.; Katz, M.J.; Leznoff, D.B.; Schreckenbach, G.; Kroeker, S. "Characterising Lone-Pair Activity of Lead(II) by  $^{207}Pb$  Solid-State NMR: Coordination Polymers of  $[N(CN)_2]^-$  and  $[Au(CN)_2]^-$  with Terpyridine Ancillary Ligands", *Chem. Eur. J.*, **2011**, *17*, 3609-3618.
72. \*\*Featured on the cover of *Dalton Transactions*, Issue 19, 2011. Ovens, J.; Leznoff, D.B. "Thermally triggered reductive elimination of bromine from Au(III) as a path to Au(I)-based coordination polymers", *Dalton Trans.*, **2011**, *40*, 4140-4146.
73. \*\*Featured on the cover of *Dalton Transactions*, Issue 29, 2011. Geisheimer, A.; Huang, W.; Pacradouni, V.; Sabok-Sayr, S.A.; Sonier, J.E.; Leznoff, D.B. "Magnetic properties of Isostructural  $M(OH_2)_4[Au(CN)_4]_2$ -based coordination polymers ( $M = Mn, Co, Ni, Cu, Zn$ ) by SQUID and  $\mu SR$  studies", *Dalton Trans.*, **2011**, 7505-7516.
74. \*\*Featured on the cover of *Dalton Transactions*, Issue 19, 2012. \*\*Top-10 articles accessed in Nov. 2012; Hayes, C.E.; Leznoff, D.B. "Paramagnetic diamidodonor metal complexes" *Dalton Trans.*, **2012**, *41*, 5743-5753. (Invited Perspective Review)
75. Wong, E.W.; Leznoff, D.B., "Synthesis and structural characterization of a magnesium phthalocyanine(3-) anion", *Journal of Porphyrins and Phthalocyanines*, **2012**, *16*, 154-162.
76. Ovens, J.; Truong, K.; Leznoff, D.B. "Structural Organisation and Dimensionality at the Hands of Weak Intermolecular  $Au\cdots Au$ ,  $Au\cdots X$  and  $X\cdots X$  ( $X = Cl, Br, I$ ) Interactions", *Dalton Trans.*, **2012**, *14*, 1345-1351.
77. Wong, E.W.; Ovens, J.; Leznoff, D., "From low to very high birefringence in bis(pyridyl)isoindolones: Synthesis and structure-property correlations", *Chem. Eur. J.*, **2012**, *18*, 6781-87.
78. Dean, R.K.; Fowler, C.; Hasan, K.; Kerman, K.; Kwong, P.; Trudel, S.; Leznoff, D.B.; Kraatz, H-B.; Dawe, L.N.; Kozak, C.M. "Magnetic, electrochemical and spectroscopic properties of iron(III) amine-bis(phenolate) halide complexes", *Dalton Trans.*, **2012**, *41*, 4806-4816.
79. Roberts, R.J.; Li, X.; Lacey, T.F.; Patterson, H.H.; Leznoff, D.B. "Heterobimetallic Lanthanide-Gold Coordination Polymers: Structure and Emissive Properties of Isomorphous  $[^nBu_4N]_2[Ln(NO_3)_4Au(CN)_2]$  1-D Chains", *Dalton Trans.*, **2012**, *41*, 6992-6997.
80. Lefebvre, J.; Korcok, J.; Katz, M.J.; Leznoff, D.B. "Vapochromic behaviour of  $M[Au(CN)_2]_2$ -based coordination polymers ( $M=Co, Ni$ )", *Sensors*, **2012**, *12*, 3669-3692. (Special issue on Molecule-based Sensors).
81. Hayes, C.E., Platel, R.; Schafer, L.L. and Leznoff, D.B. "Diamido-ether actinide complexes as catalysts for intramolecular hydroamination", *Organometallics*, **2012**, *31*, 6732-6740.
82. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 39, 2012. Wong, E.W.; Miura, A.; Wright, M.; He, Q.; Walsby, C.W.; Shimizu, S.; Kobayashi, N.; Leznoff, D.B. "Gold(III) Phthalocyanine Revisited: Synthesis and spectroscopic properties of gold(III) phthalocyanines and an unprecedented ring-contracted phthalocyanine analogue", *Chem. Eur. J.*, **2012**, *18*, 12404-12410.
83. Korcok, J.L.; Leznoff, D.B. "Thermal expansion of mercury(II) cyanide and  $HgCN(NO_3)$ ", *Polyhedron*, **2013**, *52*, 72-77. (Invited paper for Special Issue in honour of Werner's 100<sup>th</sup> Nobel Anniversary)
84. \*\*Featured in a highlight email to ACS members from *Organometallics*, Issue 5, 2013.
- Hayes, C.E., Sarazin, Y.; Katz, M.J.; Carpentier, J.-F. and Leznoff, D.B. "Diamidoether-actinide complexes as initiators for lactide ring-opening polymerization", *Organometallics*, **2013**, *32*, 1183-1192. (Special f-element Forum).
85. Kobayashi, M.; Savard, D.; Geisheimer, A.R.; Sakai, K.; Leznoff, D.B. "Heterobimetallic coordination polymers based on the  $[Pt(SCN)_4]^{2-}$  and  $[Pt(SeCN)_4]^{2-}$  building blocks", *Inorg. Chem.*, **2013**, *52*, 4842-4852.
86. Ovens, J.S., Truong, K.; Leznoff, D.B. "Targeting  $[Au(CN)_2Cl_2]^-$  units as halophilic building blocks in coordination polymers", *Inorg. Chim. Acta*, **2013**, *403*, 127-135 (Invited special issue on Coord. Polymers).

87. Chang, S.; Desai, S.; Leznoff, D.B.; Merbouh, N.; Britton, R. "A short, gram scale synthesis of 2,5-disubstituted furans", *Eur. J. Org. Chem.*, **2013**, 3219-3222.
88. \*\*Featured on the cover of *Dalton Transactions*, Issue 42, 2013. Savard, D.; Leznoff, D.B. "Synthesis, structure and optical properties of tetraalkylammonium metal isothiocyanate salts", *Dalton Trans.*, **2013**, 42, 14982-91.
89. Thompson, J.R.; Roberts, R.J.; Williams, V.E.; Leznoff, D.B., "Birefringent, emissive coordination polymers incorporating bis(benzimidazole)pyridine as an anisotropic building block", *CrystEngComm*, **2013**, 15, 9387-9393. Special Issue Coord. Polymers.
90. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 49, 2013. Thompson, J.R.; Ovens, J.S.; Williams, V.E.; Leznoff, D.B. "Bis(benzimidazole)pyridine: an extended anisotropic ligand for highly birefringent materials", *Chem. Eur. J.*, **2013**, 19, 16572-16578
91. Hayes, C.E. and Leznoff, D.B. "Multidentate Polyamido-based actinide complexes in coordination and organometallic chemistry", *Coord. Chem. Rev.*, **2014**, 266-267, 155-170 (Special issue on Actinide chemistry).
92. \*\*Featured on the cover of *Chemical Communications*, Issue 24, 2014. Roberts, R.J.; Belanger-Desmarais, N.; Reber, C. and Leznoff, D.B. "The luminescence properties of linear vs. kinked aurophilic 1-D chains of bis(dithiocarbamate)-gold(I) complexes", *Chem. Commun.*, **2014**, 50, 3148-3150.
93. Hayes, C.E.; Gill, D.E.; Brown, M.; Leznoff, D.B. "Mixed-donor amido-siloxo actinide(IV) halide and alkyl complexes with an aryl-C<sub>ipso</sub> interaction", *Eur. J. Inorg. Chem.*, **2014**, 3690-3700.
94. Savard, D.; Storr, T.; Leznoff, D.B. "Magnetostuctural characterization of copper(II) hydroxide dimers and coordination polymers coordinated to apical isothiocyanate and cyanide-based counteranions", *Can. J. Chem.*, **92**, 1021-1030 (Lever special issue, invited).
95. Ahern, J.; Roberts, R.; Follansbee, P.; McLaughlin, J.; Leznoff, D.B.; Patterson, H.H., "Structure and emissive properties of heterobimetallic Ln-Au coordination polymers: Role of Tb and Eu:Tb in non-aurophilic [nBu<sub>4</sub>N]<sub>2</sub>[Ln(NO<sub>3</sub>)<sub>4</sub>Au(CN)<sub>2</sub>] vs. aurophilic Ln[Au(CN)<sub>2</sub>]<sub>3</sub>.nH<sub>2</sub>O/nD<sub>2</sub>O chains", *Inorg. Chem.*, **53**, 7571-7579.
96. Ovens, J.S.; Leznoff, D.B. "Raman Detected sensing of volatile organic compounds by vapochromic Cu[AuX<sub>2</sub>(CN)<sub>2</sub>]<sub>2</sub> (X=Cl, Br) coordination polymers", *Chem. Mater.*, **2015**, 27, 1465-1478.
97. Poirier, S.; Roberts, R.J.; Le, D.; Leznoff, D.B.; Reber, C. " Interpreting experimental trends of temperature and pressure dependent emission in square-planar platinum(II) compounds", *Inorg. Chem.*, **2015**, 54, 3728-3735.
98. Jelier, Benson J.; Howell, J. L.; Leznoff, D.B.; Montgomery, C.D.; Friesen, C.M., "A Convenient Route to Tetraalkylammonium Perfluoroalkoxides from Hydrofluoroethers", *Angew. Chem. Intl. Ed.*, **2015**, 54, 2945-49.
99. Platel, R.H.; Tasso, T.T.; Zhou, W.; Furuyama, T.; Kobayashi, N.; Leznoff, D.B. "Metallophthalocyanin-ocenes: Scandium phthalocyanines with an η<sup>5</sup>-bound Cp ring", *Chem. Commun.*, **2015**, 15, 5986-5989.
100. Thompson, J.R.; Katz, M.J.; Williams, V.E.; Leznoff, D.B. "Structural design parameters for highly birefringent coordination polymers", *Inorg. Chem.*, **2015**, 54 6462-71.
101. Zhou, W.; Platel, R., Tasso, T.T.; Furuyama, T.; Kobayashi, N.; Leznoff, D.B. "Reducing Zirconium(IV) phthalocyanines and the structure of a Pc<sup>4</sup>-Zr complex", *Dalton Trans.*, **2015**, 44, 13955-13961.
102. Yoshida, Takuya; Zhou, Wen; Furuyama, Taniyuki; Leznoff, D.B.; Kobayashi, N. "An Extremely Air-Stable 19π Porphyrinoid", *J. Am. Chem. Soc.*, **2015**, 137, 9258-9261.
103. \*\*Featured on the front cover of *Chemical Communications*, Issue 76, 2015. Roberts, R.J.; Le, D.; Leznoff, D.B. "Controlling intermolecular aurophilicity in emissive dinuclear Au(I) materials and their luminescent response to NH<sub>3</sub> vapour", *Chem. Commun.*, **2015**, 51, 14299-14302.
104. Thompson, J.R.; Goodman, K.; Leznoff, D.B. "Birefringent, emissive cyanometallate-based coordination polymers containing group(II) terpyridine building blocks" *Polyhedron*, **2016**, 108, 93-99. (Special Issue, Canadian Researchers)
105. Ovens, J.S.; Christensen, P.; Leznoff, D.B. "Tunable white light emission from an aurophilic Cu(I)/Au(I) based coordination polymer system containing thioether ligands", *Chem. Eur. J.*, **2016**, 22, 8234-8239.
106. Roberts, R.; Patterson Group, Leznoff, "Ce/Au(CN)<sub>2</sub>-based coordination polymers containing and lacking aurophilic interactions", *Eur. J. Inorg. Chem.*, **2016**, 2082-2087. (special Issue Namur Materials Conference)
107. Pick, F.; Thompson, J.R.; Savard, D.; Leznoff, D.B.; Fryzuk, M.D. "Synthesis of Iron and Cobalt Complexes of a Ferrocene-Linked Diphosphinoamide Ligand and Characterization of a Weak Iron-Cobalt Interaction", *Inorg. Chem.*, **2016**, 55, 4059-4067.
108. \*\*Featured on the front cover of *Chemical Communications*, Issue 76, 2015. Ovens, J.S., Leznoff, D.B. "Emissive heterobimetallic Copper(I)-Dicyanoaurate-based coordination polymers", *ChemPlusChem.*, **2016**, 81, 842-849. (Invited special issue on Coordination Polymers)
109. Herasymchuk, K.; Chiang, L., Hayes, C.E., Brown, M.L.; Ovens, J.S.; Patrick B.; Leznoff, D.B.; Storr, T. "Synthesis+ Electronic Structure Determination of Uranium(VI) Ligand Radical Complexes", *Dalton Trans.*, **2016**, 45, 12576-586.
110. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 10, 2017. Zhou, W.; Thompson, J.R.; Leznoff, D.B. "The redox active Chromium Phthalocyanine system: Isolation of five oxidation states from Pc<sup>4</sup>-Cr(I) to Pc<sup>2</sup>-Cr(III)", *Chem. Eur. J.*, **2017**, 23, 2323-31.
111. Thompson, J.R.; Snider, D.; Wren, J.E.C.; Kroeker, S.; Williams, V.E.; Leznoff, D.B. "Correlating structural features and <sup>207</sup>Pb NMR parameters with the stereochemical activity of Pb(II) lone pairs in birefringent Pb[bis(benzimidazole)pyridine] complexes", *Eur. J. Inorg. Chem.*, **2017**, 88-98.
112. Thompson, J.R.; Williams, V.E.; Leznoff, D.B. "The role of hydrogen-bonds in facilitating planar alignment of Mn(II) halide 2,6-bis(benzimidazole)pyridine-based complexes", *Cryst. Growth Des.*, **2017**, 17, 1180-1189.
113. \*\*Featured on the cover of *Eur. J. Inorg. Chem.* issue 22. Suffren, Y.; Kobayashi, M.; Ovens, J.S.; Rodrigue-Witchel, A.; Genre, C.; Sakai, K.; Reber, C.; Leznoff, D.B.; "[Pt(SCN)<sub>4</sub>]<sup>2-</sup>-based coordination polymers and supramolecular squares: Intermolecular Pt...H-C interactions probed by luminescence spectroscopy at variable temperature and pressure", *Eur. J. Inorg. Chem.*, **2017**, 2865-2875.
114. \*\*Featured on the cover of *Inorganic Chemistry*, Issue 13, 2017. Ovens, J.S. and Leznoff, D.B. "Copper(I) and silver(I) [Au(CN)<sub>2</sub>X<sub>2</sub>]-based coordination polymers (X=Cl, Br, CN) and their thermal expansion behaviour", *Inorg. Chem.*, **2017**, 56, 7332-7343.
115. \*\*Featured on the cover of *Dalton Transactions*, Issue 22, 2017. Brown, M.L.; Ovens, J.S.; Leznoff, D.B. "Dicyanoaurate-based Heterobimetallic uranyl coordination polymers", *Dalton Trans.*, **2017**, 46, 7169-7180.
116. Roberts, R.J.; Le, D. and Leznoff, D.B., "Colour-tunable and white-light luminescence in lanthanide-dicyanoaurate coordination polymers", *Inorg. Chem.*, **2017**, 56, 7948-7959.

117. Sergeenko, A.S.; Ovens, J.S.; Leznoff, D.B. "Copper(II) dihalotetracyanoplatinate(IV) coordination polymers and their vapochromic behavior", *Inorg. Chem.*, **2017**, *56*, 7870-7881.
118. \*\*Featured in the virtual issue of the RSC-CSC100th Anniversary. Varju, B.R.; Ovens, J.S.; Leznoff, D.B. "Mixed Cu(I)/Au(I) coordination polymers as reversible turn-on vapoluminescent sensors for volatile thioethers", *Chem. Commun.*, **2017**, *53*, 6500-6503.
119. Guan, D.; Thompson, J.R.; Leznoff, D.B. "Emissive and birefringent Hg(CN)<sub>2</sub>-based coordination polymer materials with very distorted coordination geometries", *Can. J. Chem.*, **2018**, *96*, 226-234. Special Issue for SFU's 50<sup>th</sup> Anniversary.
120. Arthur, R.B.; Nicholas, A.D.; Roberts, R.J.; Assefa, Z.; Leznoff, D.B.; Patterson, H.H. "Luminescence investigation of samarium(III)/dicyanoaurate(I)-based coordination networks with and without aurophilic interactions", *Gold Bulletin*, **2018**, *51*, 1-10.
121. \*\*Featured on the cover of *Chemical Communications*, Issue 15, 2018. Zhou, W.; Leznoff, D.B. "Phthalocyanine as a redox-active platform for organometallic chemistry" *Chem. Commun.*, **2018**, *54*, 1829-32.
122. \*\*Featured on the front cover of *Cryst. Eng. Comm.*, Issue 13, 2018. Ovens, J., Leznoff, D.B. "Probing halogen-halogen interactions via thermal expansion analysis", *CrystEngComm*. **2018**, *20*, 1769-1773.
123. Sergeenko, A.S.; Ovens, J.S.; Leznoff, D.B. "Designing Anisotropic cyanometallate coordination polymers with zero thermal expansion in two dimensions", *Chem. Commun.*, **2018**, *54*, 1599-1602.
124. Pick, F.; Leznoff, D.B.; Fryzuk, M.D. "Redox Behaviour of ([fc(NP<sub>i</sub>Pr<sub>2</sub>)<sub>2</sub>]Fe)<sub>2</sub>, Formation of an Iron-Iron Bond and Cleavage of Azobenzene", *Dalton Trans.*, **2018**, *47*, 10925-10931.
125. McKearney, D.; Choua, S.; Zhou, W.; Ganga-Sah, Y.; Ruppert, R.; Wytko, J.; Weiss, J.; Leznoff, D.B. "Ring-oxidized Zinc(II) phthalocyanine cations: Structure, spectroscopy and decomposition behavior", *Inorg. Chem.*, **2018**, *57*, 9644-9655. (Special Forum Issue on Redox-active Ligands)
126. Fujisawa, K.; Tobita, K.; Sakuma S.; Savard, D.; Leznoff, D.B., "Binuclear and mononuclear copper(II) chlorido complexes with hindered neutral N3-type ligands: influence of ligand framework and charge on their structure and physicochemical properties", *Inorg. Chim. Acta*, **2019**, *486*, 582-588. (special issue for R. Mukherjee)
127. \*\*Featured on the cover of *Chemistry: A European Journal*, Issue 38, 2019; Highlighted as "Hot Paper" Varju, Bryton R.; Wollschlaeger, S.; Leznoff, D.B. "Zinc(II) Tetracyanoplatinate: A reversible luminescence-based ammonia sensor", *Chem. Eur. J.*, **2019**, *25*, 9017-25.
128. Herasymchuk, K.; Miller, J.J.; MacNeil, G.; Sergeenko, A.; McKearney, D.; Goeb, S.; Sallé, M.; Kaake, L.; Leznoff, D.B.; Storr, T. "Self-Assembly of a Supramolecular Square Containing a Redox-Active Nickel Salen Building Block", *Chem. Commun.*, **2019**, *55*, 6082-85.
129. \*\*Featured on the cover of *Chemical Communications*, Issue 47, 2019. McKearney, D.; Zhou, W.; Zellman, C.; Williams, V.E.; Leznoff, D.B. "Facile tuning of the wavelength of strong Near-IR absorptions in manganese(III) phthalocyanines via axial ligand exchange", *Chem. Commun.*, **2019**, *55*, 6696-6699.
130. Ganga-Sah, Y.; Leznoff, D.B.; Bennet, A.J. "Synthesis of sterically congested 2,2'-bi(adamantine)-based alcohol and amines", *J. Org. Chem.* **2019**, *84*, 15276-15282.
131. Ganga-Sah, Y.; Tajkhash, E.; Platel, R.H.; Zhou, W.; Leznoff, D.B. "Synthesis, structure and reduction chemistry of monophthalocyanine scandium hydroxides", *J. Porph. Phthalocyanines*, **2019**, *23*, 1592-1602. (special issue on Women in Porphyrin Science)
132. Carvalho, M.-A.; Dekkiche, H.; Richeter, S.; Bailly, C.; Karmazin, L.; McKearney, D. Leznoff, D.B.; Rogez, G.; Vileno, B.; Choua, S.; Ruppert, R. "Antiferromagnetic coupling in copper(II) porphyrin dimers linked by copper(II) or palladium(II) ion", *J. Porph. Phthalocyanines.*, **2020**, *24*, 238-246 (special issue in honour of Atsuhiko Osuka).
133. \*\*Highlighted as "Hot Paper" by *Chemistry: A European Journal* Zhou, W.; McKearney, D.; Leznoff, D.B. "Structural diversity of F-element monophthalocyanine complexes", *Chem. Eur. J.*, **2020**, *26*, 1027-1031.
134. Brown, M.; Leznoff, D.B. "Extending Uranyl Dicyanoaurate coordination polymers into the second and third dimensions", *Can. J. Chem.*, **2020**, *98*, 365-372 (Special issue in honour of Jim Wuest)
135. D. Stevens, B. Gray, D. Yin, G. Chapman, D.B Leznoff "Post arrays for the immobilization of vapochromic coordination polymers for chemical sensors", *IEEE Sensors* **2020**, *20*, 12102-12108.
136. D.M. Stevens, B.L. Gray, D.B. Leznoff, H. Furukawa, A. Khosla, "3D Printable Vapochromic Sensing Materials", *ECS (J. Electrochem. Soc.)*, **2020**, *167*, article #167503.
137. Fujisawa, K.; Nemoto, T.; Morishima, Y.; Leznoff, D.B. "Synthesis and Structural Characterization of a silver(I) pyrazolato coordination polymer", *Molecules (MDPI)*, **2021**, *26*, 1015. (Special Issue in honour of Edward Tiekink).
138. McKearney, D.; Roberts, R.J.; Mitchell, D.; Cheung, J.C.F.; Williams, V.E.; Leznoff, D.B. "Preferential formation of side-pocket substituted Zinc phthalocyanines emitting beyond 800 nm", *Eur. J. Inorg. Chem.*, **2021**, 2773-2783.
139. Herasymchuk, K.; Magali, A.; MacNeil, G.A.; Carré, V.; Aubriet, F.; Leznoff, D.B.; Sallé, M.; Goeb, S.; Storr, T. "Exciton Coupling in Redox-active Salen-based Self-assembled metallacycles", *Chem. Eur. J.*, **2021**, *27*, 16161-16172.
140. \*\*Highlighted as "Very Important Paper"; \*\*Featured on the front cover of *Eur. J. Inorg. Chem.* Issue 14, 2022. Pells, J.; Guan, D.; Leznoff, D.B. "Heterometallic Ln(III)-containing materials based on one-dimensional aurophilic chains of gold(I) dithiolate dimers and their vapochromic response to DMF", *Eur. J. Inorg. Chem.*, **2022**, ejic.202200049 (13 pages).
141. Sergeenko, A.S.; Paripovic, D.; Dab, C.; Blanc, P.F.; Reber, C.R.; Leznoff, D.B. "Highly emissive polymorphs of anhydrous cadmium tetracyanoplatinate and their solvated coordination networks", *Dalton Trans.*, **2022**, *51*, 9531-9540.
142. \*\*Highlighted as "Editor's Choice" paper by the ACS (one paper chosen from all ACS journals daily). Highlighted as "Feature Article" by *Inorg. Chem.* \*\*Featured on front cover of *Inorg. Chem.* Issue 50, 2022.

- Schrage, B.R.; Zhou, W.; Harrison, L.A.; Nevoen, D.E.; Thomson, J.R.; Prosser, K.E.; Walsby, C.J.; Ziegler, C.J.; Leznoff, D.B.; Nemykin, V.N. Resolving half-a-century long controversy between (magneto)optical and EPR spectra of single-electron reduced [PcFe], [PcFeL], and [PcFeX]<sup>2-</sup> complexes: story of a double flip", *Inorg. Chem.*, **2022**, *61*, 20177-20199.
143. McKearney, D.; Zhou, W.; Scollon, M.; Furuyama, T.; Williams, V.E.; Leznoff, D.B. "Decreasing the aggregation and ligand redox potential of metallophthalocyanines through branched ether functionalization", *J. Porph. Phthalocyanines*, **2023**, ASAP online (Special Issue in honour of Tomas Torres)
144. Tajbakhsh, E.; McKearney, D.; Leznoff, D.B.; Warren, J.J. "Heterogeneous preparations of solution-processible cobalt phthalocyanines for carbon dioxide reduction electrocatalysis", *Inorganics*, **2023**, *11*, 43. 14 pages (Special Issue, "Inorganics - 10th Anniversary)
145. Sergeenko, A.S.; Paripovic, D.; Bélanger-Desmarais, N.; Reber, C.; Leznoff, D.B. "Dichroic palladium(II)-dithiolate coordination polymers", *Cryst. Growth Des.*, **2023**, *23*, 5812-5820.
146. \*\*Featured on the front cover of *CrystEngComm* Issue 33, 2023.  
Brown, M.L.; Karpiuk, T.E.; Leznoff, D.B. "Emissive lanthanide dicyanoaurate coordination polymers with 2,2'-bipyridine dioxide antenna groups and their hydration states", *CrystEngComm*, **2023**, *25*, 4658-4668.
147. \*\*Featured on the front web-cover of *Molecules* Nov. 2023. Lawson, S.E.; Leznoff, D.B.; Warren, J.J. "Contemporary strategies for immobilizing metallophthalocyanines for electrochemical transformations of carbon dioxide", *Molecules*, **2023**, *28*(15), 5878.
148. \*\*Featured on the front cover of *Inorg. Chem.* Issue xx, 2024.  
Karpiuk, T.E.; Leznoff, D.B. "Anisotropic thermal expansion of structurally related lanthanide-mercury(II) cyanide coordination polymers", *Inorg. Chem.*, **2024**, 10.1021/acs.inorgchem.3c03002.
149. Williams-Sekiguchi, W.Y.; Karpiuk, T.E.; Leznoff, D.B. "Investigating Colossal Thermal expansion driven by chalcogen interactions using AB(XCN)<sub>4</sub> (A=Co, Zn, Cd; B=Cd, Hg; X=S, Se) Compounds", *Can. J. Chem.*, **2024**, in press. (Special Canadian Undergraduates Issue)
150. McKearney, D.; Macdonald, K.; Kim, M.S.; Williams, V.E.; Leznoff, D.B. "Tuning the visible colour of Octahedral Manganese(III) Phthalocyanines via axial ligand exchange", *Dalton Trans.*, **2024**, online DOI 10.1039/D3DT03518B.
151. Bari, M.; Lin, A.; Pells, J.; Leach, G.; Leznoff, D.B.; Ye, Z.-G. "Crystal Growth and Structural and Optical Characterizations of Mixed-Cation MA1-xCsxPbBr3 Halide Perovskite Solid Solutions", *Can. J. Chem.*, **2024**, accepted subject to minor revisions.
152. Varju, B.R.; Wollschlaeger, S.A.; Pells, J.A.; Leznoff, D.B. "Cadmium Dicyanoaurates and their Reaction with Ammonia", *ChemPlusChem*, **2024**, in press (Special Issue on Gold chemistry)

### Patents Filed/Granted

1. Lefebvre, J.; Katz, M.J.; Leznoff, D.B. "Vapochromic Coordination Polymers for use in Analyte Detection", US patent #11/577299, CIP 12/169406, granted Apr 20/11 and May 30, 2011; Canadian patent #2584190 granted Dec. 10, 2014; European patent # 05797022.0, filed May 15, 2007; US CIP #14/800484, filed July 15, 2015.
2. Leznoff, D.B.; Katz, M.J. "Birefringent Metal-containing Coordination Polymers", US patent #12278891 and Canadian # (pending) filed August 8, 2008, European patent EP07-710-628.4 granted Dec. 16, 2014.
3. Khosla, A.; Gray, B.L.; Korcok, J.L.; Leznoff, D.B. "Novel magnetic nanocomposites with preparation and methods of patterning same", US Patent #15/636413 filed June 28, 2017.
4. D. Stevens, A. Khosla, B. Gray, D.B. Leznoff, H. Furukawa. "3D Printable Vapochromic Sensing Materials", US Provisional Patent # 62964568 filed Jan. 22, 2020.
5. D. Stevens, A. Khosla, B. Gray, D.B. Leznoff, H. Furukawa. "Immobilization of insoluble particles in polymer", PCT # 6S1680406 filed Jan. 21, 2021.

### Invited Book Chapters

1. Leznoff, D.B. and Mund, G. "Paramagnetic Organometallic Complexes", In *Encyclopedia of Inorganic Chemistry*, 2nd Ed., Wiley. **2005**, Vol. 7.
2. Lefebvre, J. and Leznoff, D.B. "Structural Diversity, Physical Properties and Applications of Cyanometallate Coordination Polymers", In *Metal and Metalloid-containing Polymers*, Vol. 5, Wiley. **2005**, p. 155-208.
3. Leznoff, D.B., Katz, M.J. and Lefebvre, J. "Ammonia-sensing Cyanoaurate Coordination Polymers", In *Experiments in Green and Sustainable Chemistry*, Roesky, H. and Kennepohl, D. eds., **2009**, Ch. 15, p. 85-91.
4. Leznoff, D.B.; Hayes, C.E., Mund, G.. "Paramagnetic Organometallic Complexes", In *Encyclopedia of Inorganic and Bioinorganic Chemistry*, 3rd Ed., Wiley. **2012**, Vol. 3., online reference (15 pages).

### Refereed Conference Proceedings

1. Leznoff, D.B.; Fryzuk, M.D.; Thompson, R.C. "Paramagnetic Organometallic Cobalt Complexes and their Reactions with Alkyl Halides" *Coordination Chemistry at the Turn of the Century*, Smolenice, **1999**, 165-170.
2. Leznoff, D.B.; Mund, G.; Jantunen, K.C.; Bhatia, P.; Gabert, A.J.; Batchelor, R.J. "Diamidoether Complexes of Uranium and Transition-Metals." ACTINIDES 2001 (Hayama, Japan) Conference Proceedings. *J. Nucl. Sci. Tech.*, Supplement 3, **Nov. 2002**, 406-409.
3. A. Khosla, J. L. Korčok, B. L Gray, D. B Leznoff, J. W. Herchenroeder, D. Miller, Z. Chen, "Fabrication of integrated polymer permanent micromagnets for microfluidic systems" SPIE Photonics West, **2010**, Paper number: 7593-42.
4. A. Khosla, J. L. Korčok, B. L Gray, D. B Leznoff, J. W. Herchenroeder, D. Miller, Z. Chen "Fabrication of UV-

- micro-patternable permanent micro magnets for lab on a chip and MEMS" SPIE Nanosensors, biosensors and info-tech sensors and systems Proc. SPIE **2010**, 7646, UNSP 76461L.
5. A. Khosla, J. L. Korčok, B. L. Gray, D. B. Leznoff, J. W. Herchenroeder, D. Miller, and Z. Chen "Fabrication and testing of integrated permanent micromagnets for microfluidic systems", Proc. SPIE **2010**, 7593, 759316
  6. D. Stevens, B. Gray, D. Yin, G. Chapman, D.B Leznoff "Post arrays for the immobilization of vapo-chromic coordination polymers for chemical sensors", IEEE Sensors **2017**, 612-614.
  7. D. Yin, G.H. Chapman, D. Stevens, B. Gray, D.B. Leznoff "Detection of low concentration ammonia using differential laser induced fluorescence on vapo-chromic coordination polymers", Proc. SPIE **2018**, 10539, UNSP 105390K.
  8. G.H. Chapman, D. Yin, B. Gray, D.B. Leznoff. "Detecting PPM ammonia over wide range using laser-induced fluorescence of vapo-chromic coordination polymers", Proc. SPIE **2021**, 11693, UNSP 116930W.
  9. G.H. Chapman, D. Yin, V.A. Patel, B.L, Gray, D.B. Leznoff. "Enhancing detecting of ammonia from 1 to 10,000's PPM using laser induced fluorescence of tuned vapo-chromic coordination polymers", Proc. SPIE **2023**, 12428, 124280J.