CURRICULUM VITAE
Christopher L. Cahill

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1859 Wilson Blvd., #372
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POSITIONS HELD

The George Washington University
Department of Chemistry
Deputy Chair, June 1 2018 to Present
Professor of Chemistry: 2011- Present
Professor of International Affairs: 2011- Present
Associate Professor: 2006- 2011
Assistant Professor: 2000 to 2006.

Acting Director- Institute for International Science and Technology Policy (January to July 2018)

American Institute of Physics State Department Science Fellow
US Department of State
Bureau of International Security and Nonproliferation
Weapons of Mass Destruction-Terrorism
Nuclear Forensics Team
August 2015- August 2016

Carnegie Institution of Washington, Geophysical Laboratory
Visiting Investigator, July 2000 to July 2008.

University of Notre Dame: Post-Doctoral Research Associate in the Environmental Mineralogy and Crystallography Group within the Department of Civil Engineering and Geological Sciences. June 1999 to July 2000. Advisor: Peter C. Burns.

State University of New York
University at Stony Brook- Departments of Chemistry and Geosciences
Research Assistant, 1994-1999
Teaching Assistant, 1997

Arizona State University
Teaching Assistantship, 1993-1994.

EDUCATION

State University of New York
University at Stony Brook

Ph.D. Chemistry, May 1999; Dissertation Title: *Synthesis and Time-Resolved Structural Characterization of Framework and Mineral Sulfides*.
Advisor: John B. Parise

State University of New York
College at Fredonia
B.S. (cum laude) Chemistry and Geochemistry, 1993.

CURRENT/RECENT FUNDING

External:

DOE-BES 1/17/18 to 11/30/20: 'Novel TRU materials via restricted $[AnO_2]^{2+}$ (An = U, Np, Pu) speciation profiles and supramolecular assembly.' $373,199.

DOE-NNSA/UC Berkeley 8/1/17-7/31/22 'Nuclear Science and Security Consortium." GW is a subawardee to UC Berkeley. Total award: ~$18 million, $1.7 million to GW, ~$300K to Cahill.

DOE-BES: 4/1/2013 to 3/30/2016: 'Novel uranyl bearing materials via restricted UO_2^{n+} speciation profiles and supramolecular assembly.' $315,000 No cost extension to November 2017.

DOE-BES 10/1/09- 9/30/2012: 'Control of hydrothermal UO_2^{n+} systems: A solution phase approach to new solid state materials.' $299,842.

DOE-BES 9/1/05-9/31/2009 'Hydrothermal chemistry of UO_2^{n+} Phases: Formation and Stabilization of Pentavalent Uranium Compounds.' $282,000.

DOE-EFRC 8/1/09-7/31/2014: 'Actinide Materials Science'. Cahill is a subawardee to the University of Notre Dame. Total award: $18Million, $1,120,729 to Cahill.

DOE-EFRC 8/1/14-7/31/2018: 'Actinide Materials Science'. Cahill is a subawardee to the University of Notre Dame. Total award: $12 Million, $520,000 to Cahill.

United States Nuclear Regulatory Commission 8/1/11 to 8/31/14: "The Science of Nuclear Materials: Development of a modular, laboratory-based curriculum to explore the properties of nuclear materials." PI: Cahill. Co-PIs, Briscoe, Feldman, Shaw. $301,461.

NSF-CAREER Award DMR-0348982 2/15/2004-1/31/2009: 'Design of organic-inorganic hybrid lanthanide and actinide materials.' $569,996

NSF-EAR- 0409422 7/1/04-6/30/07: 'Collaborative Research: Crystal chemistry of U,Th and other radionuclides in apatite: environmental and geochemical implications. Co-PI with J. Rakovan and J. Hughes, Miami University, Oxford, OH. $308,219; $46,766 to Cahill

NSF-MRI- 0419754 8/1/04-7/31/05. 'Acquisition of an imaging plate equipped X-ray diffractometer for use in a materials chemistry research and education program.' Total: $283,000 (includes $84,900 from GWU in cost sharing). Co-PIs: Xu and Wagner.

Synthesis of Ferrite Nanoparticles Using Reverse Micelles. Office of Naval Research. $121,906; 6/1/01-5/31/04.

Internal (GWU, excluding start-up; competitive):

University Facilitating Fund: Synthesis of Uranium Oxide Materials from Spent Nuclear Fuel Analogs. $12,637; 7/01-7/02.

University Facilitating Fund: Synthesis and structural characterization of heteronuclear metal-organic framework materials. $6,674; 7/03-7/04.

Columbian College of Arts and Sciences Junior Scholar Incentive Award: $7500; 7/03.

SCHOLARSHIPS AND AWARDS

FACULTY

GW Student Athlete's Professor of the Year (2015)
Oscar and Shoshanna Trachtenberg Prize for Teaching Excellence (2013)
Robert W. Kenny Prize for Excellence in Teaching, GW (2012)
Fulbright Scholarship (2008)
Bender Teaching Award, GW (2005)
NSF-CAREER Award (2004)
Junior Scholar Incentive Award- Columbian College of Arts and Sciences, GW (2003)

GRADUATE STUDENT:

Research Grant in Crystallography
Edward H. Kraus Crystallographic Research Fund
Mineralogical Society of America, 1999

Sigma Xi Excellence in Research Award, May 1998

Graduate Student Travel Grant
American Crystallographic Association, May 1998

Graduate Student Travel Award
Sigma Xi, 1997, 1998

Excellence in Graduate Activities Award
Graduate Student Organization, SUNY-SB, 1997,1998

Full Tuition Scholarship
ACA/IUCr Summer Course in Crystallography, 1996

Graduate Student Travel Award
National Science Foundation, 1995.

UNDERGRADUATE STUDENT:

State University of New York
College at Fredonia-Department of Geosciences
Textbook Scholarship, 1990-1993.

Sigma Xi Undergraduate Research Award, 1992.

PROFESSIONAL AFFILIATIONS

- American Association for the Advancement of Science (AAAS)
- Mineralogical Society of America
- American Crystallographic Association (Vice President, President, Past President, 2014-2016)
- American Chemical Society
- Geological Society of Washington
- American Nuclear Society
- Chemical Society of Washington

COURSES TAUGHT @ GW

General Chemistry I (Fall ’00, ’01, ’02, ’04, ’05 -’11, ’14, ’16, ‘17); General Chemistry II (Spring ’13, ’14, ‘15, ’17, ‘18)
Descriptive Inorganic Chemistry (Senior Undergrad course; Spring 2001-2008, 2010-2012)
Advanced Inorganic Chemistry (Graduate course; Spring 2001-2008, 2010-2012)
The Science of Nuclear Materials (Fall 2012-2014; ’16,’17) Grad level course in Elliott School of International Affairs)
Nuclear Safeguards and Forensics (Spring ’14, ‘15; Grad level course in Elliott School of International Affairs)

STUDENTS MENTORED

Graduate

Nicole Byrne- Principal Advisor (currently enrolled)
James Ridenour- Principal Advisor (currently enrolled)
Robert Surbella, III- Principal Advisor (PhD August 2017)
Korey Carter- Principal Advisor (PhD May 2017)
Mikaela Pyrch- Principal Advisor (M.S. May 2017)
Sonia Thangavelu- Principal Advisor (PhD August 2015)
Andrew Kerr- Principal Advisor (PhD May 2015)
Paula Cantos- Principal Advisor (Ph.D. May 2014)
Nicholas Deifel- Principal Advisor, Ph.D. (Ph.D. December 2013)
Karah Knope- Principal Advisor, Ph.D. (Ph.D. May 2010)
Shannon Morrison- Principal Advisor, (Ph.D. August 2005)
Lauren Borkowski- Principal Advisor, (Ph.D. May 2007)
Mark Frisch- Principal Advisor, (Ph.D. August 2008)
Noel Gunning- Principal Advisor, (M.S. August 2005)
Daniel de Lill- Principal Advisor, (Ph.D. May 2008)
Amy Harper- Principal Advisor, Ph.D. (terminated after 1.5 years)

Undergraduate
Daphne Tolentino- Summer ‘02 (volunteer) and Fall ’02 (Chem 195); Charisse Green-Spring ’01 (Chem 195); Nils Schnor- Summer ’02 as an A.D. Britt Scholar; Mandy Cole- Fall ’01, Spring ’02 (Chem 195); Jacquelynn Danek- Summer ’02. Fall ’02- Spring ‘03 as **Gamow Fellow**; Noel Gunning- Spring ’03; Homa Khorrami- Summer ’03, Fall ’03 as Robert Vincent Scholar. **Recognized as the Columbian College of Arts and Sciences Distinguished Scholar (per my nomination);** Daniel

Bozzuto- Summer ’04 as an A.D. Britt Scholar, Fall ’04 (Chem. 195); Waleed Kartum- Spring ’04 (Chem 195); Deepak Chander- Summer ’05 as an A.D. Britt Scholar; Kate Ziegelgruber Fall 2006, Science Research fellow from DePauw University; Najma Khorrami- Spring ’06 as an Enosinian Scholar; Andrew Tareilla- Fall ’07, Spring ’08; Andrew Kerr- Summer 2008 as an NSF-REU student from Indiana University of Pennsylvania; Zach Horne- AY ’07-’08 (Chem 195); Clare Rowland- AY ’08-’09 as Goldwater Scholar. Ilya Kavalerov- Spring ’10- ‘13 as Gamow Scholar; Jeffrey Power- Summer 2010 as an NSF-REU student from Cal State- San Luis Obispo; Holly Boyum- Summer 2012; Kara Thomas ’14-’15; Mark Kalaj ’15-’17; Christopher Stubbs –Summer 2017 (University of Wisconsin); Yasemin Losee ’17-present.

High School Students

Adrien Bernard (Summer 2015; Thomas Jefferson High School for Science and Technology, part of official mentorship program)
Alexander Noring (Summer 2015, Yorktown High School)
Melissa Schmidt (Summer 2016, Yorktown High School)

Post-Doctoral Associates

Dr. Nebebech Belai (2006-2009)
Dr. Michael Andrews (2010-2012)

DOCTORAL COMMITTEES SERVED ON

H. Canavan- Reader/Examiner May 2002; G. Souza- Reader/Examiner September 2003; A. Awtry- Examiner December 2003; J. Nelson- Reader/Examiner July 2003; K. Mooney- Reader/Examiner July 2004; M. Teliska- Reader/Examiner March 2004; C. Westphal- Examiner May 2004; B. Acon- Examiner May 2004; K. Li- Reader/Examiner May 2006; F. Scott Reader/Examiner July 2006; H. Liu- Examiner April 2008; C. Fan- Examiner April 2008; P. Nemes- Reader/Examiner July 2009; M. Puccio- Reader/Examiner Aug 2009; O. Zivkovic- Reader/Examiner December 2009; O. Borkiewicz- Reader/Examiner Sept. 2010, Miami University; C. Yan- Reader/Examiner March 2011; E. Yonel- Examiner March 2011; C. Cook- Examiner May 2011; J. Herdman- Reader/Examiner January 2012; D. Banarjee (SUNY-Stony Brook; April 2012); Anja Plonka (SUNY-Stony Brook; May 2015); Mina Hong- Examiner July 2015); Xianyin Chen (SUNY- Stony Brook, May 2017); Matthew Finn- Examiner January 2018.

SERVICE

Department

Graduate Affairs Committee (2000-present). Duties include review of student progress and status in the program.

Fitch Exam Committee (2000-2001, 2004-2005, 2007-08, 2009-2010, 2017). Prepare and grade exams for graduating seniors to determine winners of special departmental recognition.

Graduate Recruitment Committee (2000-2005; Chair, 04-08, ’09-present) Responsible for recruitment and visitations of potential graduate students. Revamped this process as chair.

Faculty Search Committees (2001-present; Co-Chair 2010, Chair 2014) Have been involved with every search since arriving at GWU in 2000. Official committee participation involved culling of applications to provide a reduced list to the broader faculty.

Departmental Liaison for SEH Planning (2010-2015). Participated in planning discussions with architects and other key stake holders in the design of the new Science and Engineering Hall. Have been a departmental representative to solicit input from colleagues and present to Deans and architects.

Personnel Committee (2012-Present)

College

Attended CCAS Celebrations (2002-2005, 2007-2012; Usher '05, Speaker 2011)

Academic Program Review of Forensic Sciences (2004). Two person committee to interview faculty and students from the Forensics Department.

Academic Program Review of Physics (2005).

External Member for Forensics Science Search Committee (2009-2010; 2013)

External Member for Physics Search Committee (2011)

CCAS Graduate Committee (2009- present; Chair- 2010)

CCAS Dean Search Committee (2013)

University:

GTA Instructional Practicum- GTAP Orientation (2002-2004) Reviewed presentations by incoming graduate students to verify appropriate skills present to be teaching assistants.

Goldwater Scholarship Review Committee (2005, 2006, 2008, 2011). Reviewed proposals by undergrad researchers pursuing Goldwater Scholarships.

Gamow Proposal Review Committee (2005, 2009-2011). Reviewed proposals by undergrad researchers pursuing internal George Gamow Awards.

Sigma Xi- The Scientific Research Society (President, 2001-2010). Organized GW Chapter events, including the annual spring banquet to honor the winners of the Grants in Aid of Research awards. Duties include fund raising for these events and the awards themselves, proposal review and promoting support for graduate and undergraduate researchers.

Global Security Initiative Planning Committee- ESIA (2010)

Bender & Trachtenberg Excellence in Teaching Awards Committee (2014, 2018) Reviewed nomination materials for these academic distinctions.

Presidential Search Committee (2016-17)

Scientific Community:

Reviewed over 560 articles, textbooks and proposals since July 2000.

Program Chair- NorthEast Corridor Zeolite Association (NECZA) Annual Meeting 2002, 2007.
Presided over Division of Inorganic Chemistry sessions at the American Chemical Society annual meetings (2003, 2005).
Co-Organized (with A. de Bettencourt-Dias) Lanthanide session at 2010 Fall ACS Meeting
Member- Users Executive Committee- National Synchrotron Light Source, Brookhaven National Laboratory (2005-2007).
Science Fair Judge at Yorktown High School, Arlington, VA. (2003-2008, 2010-)
Elected to the United States National Committee on Crystallography (October 2005-December 2012; Ex officio January 2014-Present; Elected as US Delegate to International Union of Crystallography Congress- Madrid 2011; Montreal 2014).
Elected to the American Crystallographic Association's Committee on Continuing Education (November 2005-2009).
Member- IUCR's Commission on Inorganic and Mineral Structures (CIMS).
Program Chair for 2011 meeting of the American Crystallographic Association.
Editorial Board of European Journal of Inorganic Chemistry (January 2011- present)
Vice President, President & Past-President, American Crystallographic Association (Jan. 1, 2014- Dec. 31, 2016)

PUBLICATIONS (PEER REVIEWED)

141. R. G. Surbella; L. C. Ducati; J. Autschbach; K. L. Pellegrini; B. K. McNamara; J. M. Schwantes; C. L. Cahill (2018) "Plutonium chlorido nitrato complexes: ligand competition and computational metrics for assembly and bonding." *Chem. Commun. 54*, 12014. http://dx.doi.org/10.1039/C8CC05578E

140. J. A. Smith; M. A. Singh-Wilmot; K. P. Carter; C. L. Cahill; J. A. Ridenour (2018) "Lanthanide-2,3,5,6-Tetrabromoterephthalic Acid Metal–Organic Frameworks: Evolution of Halogen···Halogen Interactions across the Lanthanide Series and Their Potential as Selective Bifunctional Sensors for the Detection of Fe3+, Cu2+, and Nitroaromatics." *Cryst. Growth Des.* http://dx.doi.org/10.1021/acs.cgd.8b01426

139. J. A. Ridenour; C. Cahill (2018) "Nine isomorphous lanthanide-uranyl f-f bimetallic materials with 2-thiophenecarboxylic acid and terpyridine: structure and concomitant luminescent properties." *CrystEngComm*. http://dx.doi.org/10.1039/C8CE00811F

138. K. P. Carter; R. G. Surbella; M. Kalaj; C. L. Cahill (2018) "Restricted Speciation and Supramolecular Assembly in the 5f Block." *Chem. Eur. J. In Press*. http://dx.doi.org/doi:10.1002/chem.201801044

137. K. P. Carter; M. Kalaj; A. Kerridge; C. L. Cahill (2018) "Probing hydrogen and halogen-oxo interactions in uranyl coordination polymers: a combined crystallographic and computational study." *CrystEngComm*. http://dx.doi.org/10.1039/C8CE00682B

136. R. G. Surbella; L. C. Ducati; J. Autschbach; N. P. Deifel; C. L. Cahill (2018) "Thermochromic Uranyl Isothiocyanates: Influencing Charge Transfer Bands with Supramolecular Structure." *Inorg. Chem. 57*, 2455. http://dx.doi.org/10.1021/acs.inorgchem.7b02702

135. K. P. Carter; M. Kalaj; A. Kerridge; J. A. Ridenour; C. L. Cahill (2018) "How to Bend the Uranyl Cation via Crystal Engineering." *Inorg. Chem. 57*, 2714. http://dx.doi.org/10.1021/acs.inorgchem.7b03080

134. J. A. Ridenour; C. L. Cahill (2018) "Synthesis, structural analysis, and supramolecular assembly of a series of in situ generated uranyl-peroxide complexes with functionalized 2,2[prime or minute]-bipyridine and varied carboxylic acid ligands." *New J. Chem.* http://dx.doi.org/10.1039/C7NJ03828C

133. K. P. Carter; A. T. Kerr; I. V. Taydakov; C. L. Cahill (2018) "Molecular and polymeric uranyl and thorium hybrid materials featuring methyl substituted pyrazole dicarboxylates and heterocyclic 1,3-diketones." Solid State Sciences 76, 20. http://dx.doi.org/10.1016/j.solidstatesciences.2017.12.002

132. K. P. Carter; S. J. A. Pope; M. Kalaj; R. J. Holmberg; M. Murugesu; C. L. Cahill (2018) "Exploring the Promotion of Synthons of Choice: Halogen Bonding in Molecular Lanthanide Complexes Characterized via X-ray Diffraction, Luminescence Spectroscopy, and Magnetic Measurements." *Z. Anorg. Allg. Chem. 643*, 1948. http://dx.doi.org/10.1002/zaac.201700341

131. R. G. Surbella III; L. C. Ducati; K. L. Pellegrini; B. K. McNamara; J. Autschbach; J. M. Schwantes; C. L. Cahill (2017) "A new Pu(III) coordination geometry in $(C_5H_5NBr)_2[PuCl_3(H_2O)_5] \cdot 2Cl \cdot 2H_2O$ as obtained via supramolecular assembly in aqueous, high chloride media " *ChemComm 53, 10816.* http://dx.doi.org/10.1039/c7cc05988d

130. K. P. Carter; M. Kalaj; R. G. Surbella III; L. C. Ducati; J. Autschbach; C. L. Cahill (2017) "Engaging the Terminal: Promoting Halogen Bonding Interactions with Uranyl Oxo Atoms." *Chem. Eur. J. 23*, 15355. http://dx.doi.org/10.1002/chem.201702744 **Cover Article**

129. M. Kalaj; K. P. Carter; C. L. Cahill (2017) "Isolating Equatorial and Oxo Based Influences on Uranyl Vibrational Spectroscopy in a Family of Hybrid Materials Featuring Halogen Bonding Interactions with Uranyl Oxo Atoms." *Eur. J. Inorg. Chem.*, 4702-4713. http://dx.doi.org/10.1002/ejic.201700788.**Highlighted as VIP article**

128. R. G. Surbella III; L. Ducati; K. Pellegrini; B. McNamara; J. Autschbach; J. Schwantes; C. Cahill (2017) "Transuranic Hybrid Materials: Crystallographic and Computational Metrics of Supramolecular Assembly." *J. Am. Chem. Soc. 139, 10843*. http://dx.doi.org/10.1021/jacs.7b05689.

127. J. A. Ridenour; M. M. Pyrch; Z. J. Manning; J. A. Bertke; C. L. Cahill (2017) "Two novel bimetallic transition metal-uranyl one-dimensional coordination polymers with manganese(II) and cobalt(II) incorporating bridging diglycolate (2,2'-oxydiacetate) ligands." *Acta Crystallogr., Sect. C: Cryst. Struct. Commun. 73*. http://dx.doi.org/doi:10.1107/S2053229617009263

126. J. A. Ridenour; C. L. Cahill (2017) "Synthesis, crystal structure, and topological analysis of a La-p-bromobenzoic acid-terpyridine 1D-coordination polymer with repeating decameric units and a new 3, 3, 3, 5, 5 pentanodal net topology with a novel point symbol." *Inorg. Chim. Acta*. http://dx.doi.org/10.1016/j.ica.2017.05.062

125. C. L. Cahill; N. P. Deifel; D. Reusser; L. Zhang; A. Navrotsky (2017) "Thermochemical Properties of U(VI) Hybrid Materials containing Uranyl Tetrachloride Anions." *The Journal of Chemical Thermodynamics*. 114, 66. https://doi.org/10.1016/j.jct.2017.05.009

124. M. Kalaj; K. P. Carter; A. V. Savchenkov; M. M. Pyrch; C. L. Cahill (2017) "Syntheses, Structures, and Comparisons of Heterometallic Uranyl Iodobenzoates with Monovalent Cations." *Inorg. Chem. 56*, 9156. http://dx.doi.org/10.1021/acs.inorgchem.7b01208

123. M. Kalaj; K. P. Carter; C. L. Cahill (2017) "Utilizing bifurcated halogen-bonding interactions with the uranyl oxo group in the assembly of a UO_2-3-bromo-5-iodobenzoic acid coordination

polymer." *Acta Crystallogr., Sect. B: Struct. Sci.* *73*, 234. http://dx.doi.org/doi:10.1107/S2052520617001639

122. J. A. Ridenour; K. P. Carter; C. L. Cahill (2017) "RE-p-halobenzoic acid-terpyridine complexes, part III: structural and supramolecular trends in a series of p-iodobenzoic acid rare-earth hybrid materials." *CrystEngComm* *19*, 1190. http://dx.doi.org/10.1039/C6CE02356H

121. J. A. Ridenour; K. P. Carter; R. J. Butcher; C. L. Cahill (2017) "RE-p-halobenzoic acid-terpyridine complexes, Part II: structural diversity, supramolecular assembly, and luminescence properties in a series of p-bromobenzoic acid rare-earth hybrid materials." *CrystEngComm* *19*, 1172. http://dx.doi.org/10.1039/C6CE02355J

120. K. P. Carter; M. Kalaj; C. L. Cahill (2017) "Harnessing uranyl oxo atoms via halogen bonding interactions in molecular uranyl materials featuring 2,5-diiodobenzoic acid and N-donor capping ligands." *Inorganic Chemistry Frontiers* *4*, 65. http://dx.doi.org/10.1039/C6QI00352D

119. J. A. Smith; M. A. Singh-Wilmot; K. Carter; C. L. Cahill; A. Lough; C. Knee (2016) "Eight Rare Earth Metal Organic Frameworks and Coordination Polymers from 2-Nitroterephthlate: Syntheses, Structures, Solid-State Luminescence and an Unprecedented Topology." *New J. Chem.* *40*, 7338. http://dx.doi.org/10.1039/C6NJ00822D

118. K. P. Carter; K. E. Thomas; S. J. A. Pope; R. J. Holmberg; R. J. Butcher; M. Murugesu; C. L. Cahill (2016) "Supramolecular Assembly of Molecular Rare-Earth–3,5-Dichlorobenzoic Acid–2,2′:6′,2″-Terpyridine Materials: Structural Systematics, Luminescence Properties, and Magnetic Behavior." *Inorg. Chem.* *55*, 6902. http://dx.doi.org/10.1021/acs.inorgchem.6b00408

117. G. E. Sigmon; J. E. S. Szymanowski; K. P. Carter; C. L. Cahill; P. C. Burns (2016) "Hybrid Lanthanide–Actinide Peroxide Cage Clusters." *Inorg. Chem.* *55*, 2682. http://dx.doi.org/10.1021/acs.inorgchem.6b00207

116. R. G. Surbella III; M. B. Andrews; C. L. Cahill (2016) "Self-assembly of $[UO_2X_4]^{2-}$ (X=Cl, Br) dianions with γ substituted pyridinium cations: Structural systematics and fluorescence properties." *J. Solid State Chem.*, *236,* 257-271. http://dx.doi.org/10.1016/j.jssc.2015.09.011

115. K. P. Carter; M. Kalaj; C. L. Cahill (2016) "Probing the Influence of N-Donor Capping Ligands on Supramolecular Assembly in Molecular Uranyl Materials." *Eur. J. Inorg. Chem.*, 126. http://dx.doi.org/10.1002/ejic.201501118

114. S. G. Thangavelu; C. L. Cahill (2016) "A Family of Uranyl Coordination Polymers Containing O-Donor Dicarboxylates and Trispyridyltriazine Guests." *Cryst. Growth Des.,* 16(1), 42-50. http://dx.doi.org/10.1021/acs.cgd.5b00778

113. K. P. Carter; C. H. F. Zulato; E. M. Rodrigues; S. J. A. Pope; F. A. Sigoli; C. L. Cahill (2015) "Controlling dimensionality via a dual ligand strategy in Ln-thiophene-2,5-dicarboxylic acid-terpyridine coordination polymers." *Dalton Trans.* *44*, 15843. http://dx.doi.org/10.1039/c5dt02596f

112. S. G. Thangavelu, R. J. Butcher, and C. L. Cahill (2015) "Role of N-Donor Sterics on the Coordination Environment and Dimensionality of Uranyl Thiophenedicarboxylate Coordination Polymers." *Cryst. Growth Des*., 15(7), 3481-3492. http://dx.doi.org/10.1021/acs.cgd.5b00549

111. S. G. Thangavelu, S. Pope, and C. L. Cahill (2015) "Synthetic, Structural, and Luminescent Study of Uranyl Coordination Polymers Containing Chelating Terpyridine and Trispyridyltriazine Ligands." *CrystEngComm*., 17(32), 6236-6247. http://dx.doi.org/10.1039/c5ce00984g

110. S. G. Thangavelu; C. L. Cahill (2015) "Uranyl-Promoted Peroxide Generation: Synthesis and Characterization of Three Uranyl Peroxo [$(UO_2)_2(O_2)$] Complexes." *Inorg. Chem. 54*, 4208. http://dx.doi.org/10.1021/ic502767k

109. K. P. Carter and C. L. Cahill (2015) "Combining coordination and supramolecular chemistry to explore uranyl assembly in the solid state." *Inorganic Chemistry Frontiers*. 2(2), 141-156. http://dx.doi.org/10.1039/c4qi00183d

108. K. P. Carter, C. Zulato, and C. L. Cahill (2014) "Exploring supramolecular assembly and luminescent behavior in a series of RE-p-chlorobenzoic acid-1,10-phenanthroline complexes." *CrystEngComm*, *16*, 10189. http://dx.doi.org/10.1039/c4ce01806k

107. A. T. Kerr and C. L. Cahill (2014) "CuPYDC Metalloligands and Postsynthetic Rearrangement/Metalation as Routes to Bimetallic Uranyl Containing Hybrid Materials: Syntheses, Structures, and Fluorescence." *Cryst. Growth Des.*, 18(8), 4094-4103. http://dx.doi.org/10.1021/cg5007132

106. E. C. Spencer, N. L. Ross, R. G. Surbella III, and C. L. Cahill (2014) "The influence of pressure on the structure of a 2D uranium(VI) carboxyphosphonoate compound." *J. Solid State Chem.*, 218(0), 1-5. http://dx.doi.org/10.1016/j.jssc.2014.05.026

105. K. M. Henline, C. Wang, R. D. Pike, J. C. Ahern, B. Sousa, H. H. Patterson, A. T. Kerr, and C. L. Cahill (2014) "Structure, Dynamics, and Photophysics in the Copper(I) Iodide-Tetrahydrothiophene System." *Cryst. Growth Des.*, 14(3), 1449-1458. http://dx.doi.org/10.1021/cg500005p

104. P. M. Cantos and C. L. Cahill (2014) "Poly[diammonium [diaqua([mu]7-benzene-1,2,3,4,5,6-hexacarboxylato)tetraoxidodiuranium(VI)]]." *Acta Crystallogr., Sect. E: Struct. Rep. Online*, 70(4), m142-m143. http://dx.doi.org/doi:10.1107/S1600536814006047

103. R. D. Pike, T. M. Dziura, J. C. deButts, C. A. Murray, A. T. Kerr, and C. L. Cahill (2014) "Copper(I) Cyanide Networks with 1-Phenylpiperazine." *J. Chem. Crystallogr.*, 44(1), 42-50. http://dx.doi.org/10.1007/s10870-013-0482-2

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101. K. P. Carter, S. J. A. Pope, and C. L. Cahill (2014) "A series of Ln-p-chlorobenzoic acid-terpyridine complexes: lanthanide contraction effects, supramolecular interactions and luminescent behavior." *CrystEngComm*, 16, 1873-1884. http://dx.doi.org/10.1039/c3ce42267d

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