

KENNETH W. HENDERSON
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Professor of Chemistry and Chemical Biology
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PROFESSIONAL EXPERIENCE

- 2016-date **Dean, College of Science**, *Northeastern University*, Boston, MA
- 2016-date **Professor of Chemistry and Chemical Biology**, *Northeastern University*
- 2012-2016 **Senior Assistant Provost for Internationalization**, *University of Notre Dame*,
Notre Dame, IN
- 2009-2016 **Chair, Department of Chemistry and Biochemistry**, *University of Notre Dame*
- 2011-2013 **Provost Fellow**, *University of Notre Dame*
- 2009-2013 **Associate Director of the Center for Sustainable Energy at Notre Dame**,
University of Notre Dame
- 2011-2013 **Chair, Peer Audience Council for University Communications**, *University of*
Notre Dame
- 2007-2016 **Professor of Chemistry and Biochemistry**, *University of Notre Dame*
- 2002-2007 **Associate Professor of Chemistry and Biochemistry**, *University of Notre Dame*
- 2001-2002 **Senior Lecturer** (equivalent rank of associate professor), *University of Strathclyde*,
Glasgow, UK
- 1995-2000 **Royal Society University Research Fellowship** (equivalent rank of assistant
professor), *University of Strathclyde*, Glasgow, UK
- 1993-1994 **Zeneca Postdoctoral Fellow**, Brown University, Rhode Island, USA (Advisor: Paul
G. Williard)

EDUCATION

- 2012 **University of Notre Dame, Indiana**
Certificate, Leadership and Management Development Program (ND-LEAD),
Executive Education, Mendoza College of Business
- 1993 **University of Strathclyde, Scotland, United Kingdom**
Ph.D. in Chemistry, (Advisor: Robert E. Mulvey)
Thesis: *A Synthetic and Structural Investigation of Amidomagnesium Chemistry*

1990 **University of Strathclyde, Scotland, United Kingdom**
 B.Sc. Honors in Chemistry (1st Class)

UNIVERSITY, COLLEGE AND DEPARTMENTAL SERVICE

University Administration

2016-2016 Mexico City Global Gateway, Steering Committee
 2015-16 Review Committee for the Vice-President for Research
 2015 Director Review, London Global Gateway, England
 2015 Diversity & Inclusion Workshop for University Administrators
 2012-2016 Senior Assistant Provost for Internationalization
 2014-2016 Multi-Disciplinary Research Building Planning Committee
 2014-2016 Zhejiang University-Notre Dame Liberal Arts College, Planning Committee
 2013-2016 Standing Committee on Latin America and the Caribbean
 2013-2016 Notre Dame Global Collaborative Initiative Grant Program, Steering Committee
 2013-2016 Andrónico Luksic Collaborative, Steering Committee
 2013-2016 Global Gateway Faculty Advisory Committee, Dublin Gateway Committee
 2014 Director Review, Dublin Global Gateway, Ireland
 2012-2014 Faculty Orientation on Teaching and Research, Panelist
 2011-2013 Peer Audience Council for University Communications, Chair
 2011-2013 Provost Fellow
 2009-2013 Associate Director of the Center for Sustainable Energy at Notre Dame
 2000-2002 University Committee on Postgraduate Studies

College Administration

2009-2016 Dean's Advisory Council
 2009-2016 College Council
 2013-2014 Director Review, Center for Rare and Neglected Diseases at Notre Dame
 2009-2011 Standards for Faculty Promotion in the College of Science, Working Group Chair
 2004-2008 Web Advisory Committee, College of Science
 2002-2007 College Computing Committee
 2000-2002 University Board of Study for Science

Department Administration

2009-2016 Department Chair, Department of Chemistry and Biochemistry
 2012-2016 Oversight Manager, Faculty Corporate Activities
 2009-2016 Departmental Safety Committee
 2008-2016 Committee for Appointments and Promotions
 2011-2013 Vision Committee for Strategic Planning, Chair
 2010 Decennial External Departmental Review, Chair
 2009-2010 ESTEEM Masters Program Mentor
 2008-2009 Associate Department Chair
 2006-2009 Director of Graduate Studies
 2005-2008 Inorganic Division Seminar Organizer
 2003-2006 Director of Graduate Admissions
 2002-2003 Graduate Recruitment Committee
 2000-2002 Academic Coordinator for the Chemistry Graduate Program
 2000-2002 Departmental Research Committee
 2000-2002 Departmental Staff-Student Committee

1996-2000 Space group, research and teaching laboratory concept and design

Undergraduate Education and Outreach

2012-2016 College of Science Undergraduate Study Abroad Opportunities, Liaison
 2012-2016 International Summer Undergraduate Research Experiences, Faculty Advisor
 2012-2014 Departmental Undergraduate Review Committee, Chair
 2012-2014 Research Experiences for Teachers, Faculty Mentor (NSF funded program)
 2011-2012 Professional Society Accreditation for the undergraduate chemistry program, Chair
 2004-2016 Building Bridges Minority Program, Mentor
 2000-2002 Undergraduate Curriculum Review Committee
 2000-2002 Undergraduate Teaching Committee
 1998-2002 Sophomore Undergraduate Inorganic Laboratory, Head
 1997-2002 High school liaison group
 1995-2001 Prospective Chemistry Majors, Interviewer

Interdisciplinary and Administrative Search Committees and Oversight

2014-2015 Dean, College of Science
 2014-2016 Warren Center for Drug Discovery, Faculty Search (three positions)
 2010-2016 Harper Cancer Research Institute, Faculty Search (six positions)
 2013-2016 Analytical Sciences and Engineering, Faculty Search (six positions)
 2015 Program Manager, Notre Dame International
 2014 Communications Program Director, Notre Dame International
 2014 Research Communications Program Director, Office of Research
 2013 Vice president, Associate Provost and Dean of the Graduate School
 2013 Associate Program Director, Office for Postdoctoral Scholars
 2013 Center for Rare and Neglected Disease, Faculty Search (two positions)
 2012 Adult Stem Cell Initiative, Faculty Search (two positions)
 2009-2012 Sustainable Energy Initiative, Faculty Search (six positions)

SCIENTIFIC COMMUNITY SERVICE

2010-2016 **Midwest Chemistry Chairs Representative**
 Awarded entry to the group upon review in 2010. Group meets annually to share data, best practices, and common issues.

2010-2015 **ND-CONNECT Co-organizer**
 National nanoscience and nanoengineering competition for undergraduate researchers. On campus symposium and posters judged by industry leaders.

2010-2016 **ACS Project SEED, Faculty Lead**
 Summer research program for economically disadvantaged high school students. Placed >20 students in Notre dame laboratories over the past five years.

2002-2016 **PINDU Symposium supporter**
 Annual inorganic chemistry conference for graduate students and postdocs between Purdue University, Indiana University, and Notre Dame.

2014 **National Science Foundation, Chemical Synthesis Panel**

2013-2014 **NSF Graduate Fellowship Preparation Program, Mentor**

2013 **National Science Foundation, Hybrid Materials Panel**

2011 **Open Chemistry Collaborative in Diversity Equity (OXIDE)**
 Inaugural participant in the five-year NSF/NIH/DoE-funded initiative to work with chairs of leading research-active chemistry departments (Washington DC).

- 2010 **Pacificchem 2010, Honolulu, HI. Symposium Organizer**
 2010-2016 **Council for Chemical Research**
 Member helping to promote networking and partnerships among key leaders from academia, government and industry. Participant as a congressional delegate in 2010, Washington DC.
- 2008 **Siemens Foundation Science and Technology Competition**
 Judge for the flagship initiative of the foundation to promote innovative projects in math, science and technology.
- 2008 **National Science Foundation, Organic Synthesis Panel**
 2007 **Department of Energy, Hydrogen Storage Initiative Panel**
 2006 **Journal Main Group Chemistry, Guest Editor**
 2005 **Pacificchem 2005, Honolulu, HI. Symposium Organizer**
 2004-2007 **American Chemical Society Student Affiliates, Faculty Advisor**
 2002 **Inorganic Chemistry, 3rd Edition, Shriver and Atkins, Reviewer**
 2002 **Inorganic Chemistry, 2nd Edition, Housecroft and Sharpe, Reviewer**
 2001 **Workshop on the Future of The Royal Society, London, UK**
 1999-2002 **West of Scotland Section of the Royal Society of Chemistry, Secretary**

Routine reviewer for grant and fellowship applications from the National Science Foundation, the Department of Energy, the Petroleum Research Fund, the Research Corporation, the Engineering and Physical Sciences Research Council (UK), and the Royal Society (UK).

Routine reviewer for the Journal of the American Chemical Society, Angewandte Chemie, Organometallics, European Journal of Inorganic Chemistry, Chemistry-A European Journal, Chemical Communications, Inorganic Chemistry, Dalton Transactions, Organic Letters, Journal of Organic Chemistry, and others.

HONORS, AWARDS & CITATIONS

- 2016 **USIC Golden Jubilee Plenary Speaker**
 Celebrating the 50th anniversary of the Universities of Scotland Inorganic Chemistry conference, Glasgow, UK
- 2013 **Distinguished Alumni University of Strathclyde**
 Presented at the Chemistry International Alumni Ambassador event, University of Strathclyde, Glasgow, UK
- 2013 **Center for Sustainable Energy at Notre Dame Certificate of Appreciation**
 Awarded for four years of service as Associate Director
- 2012 **Team Irish Award, University of Notre Dame**
 University award for the staff of the department of chemistry and biochemistry for exemplifying the University's core values
- 2011 **American Chemical Society Certificate of Appreciation**
 For valuable contributions and service in the peer review of manuscripts
- 2010 **Rev. Edmund P. Joyce Award for Excellence in Undergraduate Teaching**
 Awarded for having a profound influence on the undergraduate learning experience
- 2010 **Last Lecture, American Chemical Society Student Affiliates**
 Invited talk for undergraduate chemistry and biochemistry majors

- 2007 **Fellow of the Royal Society of Chemistry (FRSC)**
Awarded by the Royal Society of Chemistry in the United Kingdom to acknowledge achieving a high level of accomplishment as a professional chemist
- 2005-2016 **Editorial Board, Main Group Chemistry**
Invited board member of the Taylor and Francis journal
- 2002 **Faculty Speaker, Graduation**
Invited by the graduating seniors in the Department of Pure and Applied Chemistry at the University of Strathclyde to present at graduation
- 2001 **Practitioner of Institute for Learning and Teaching**
Awarded by the Higher Education Academy in the UK, which is a body is a professional institution promoting excellence in higher education
- 2000 **Chartered Scientist (CSci)**
Awarded by the The Royal Society of Chemistry to recognize high levels of professionalism and competence in science
- 1999 **Chartered Chemist (CChem)**
Awarded by the The Royal Society of Chemistry to recognize the professional practicing scientist
- 1998 **Honorary Faculty President, Andersonian Chemical Society**
Selected by undergraduate chemistry majors in the Department of Pure and Applied Chemistry at the University of Strathclyde
- 1995 **Royal Society University Research Fellowship**
Award for outstanding UK scientists who are in the early stages of their research career and have the potential to become leaders in their field. Awarded seven years of salary support plus research expenses to establish an independent group.
- 1993 **Ritchie Prize, Outstanding Ph.D. Thesis**
Awarded to the best thesis in the Department of Pure and Applied Chemistry at the University of Strathclyde
- 1990 **Student Speaker, Graduation**
Invited by fellow graduating seniors in the Department of Pure and Applied Chemistry at the University of Strathclyde to present at graduation

TEACHING EXPERIENCE

University of Notre Dame

- Chem-20274: sophomore - general chemistry for non-majors
- Chem-20243: sophomore - inorganic chemistry to majors and non-majors
- Chem-23201: sophomore, junior, senior – seminar in scientific presentation skills
- Chem-41443: senior - majors laboratory in advanced inorganic chemistry
- Chem-60610: graduate - organometallic chemistry
- Chem-63603: graduate - research perspectives in chemistry and biochemistry
- Chem-63604: graduate - effective scientific presentations
- Chem-93611: graduate – seminar in inorganic chemistry

University of Strathclyde

- Sophomore - periodic trends of the main group elements
- Sophomore – introductory inorganic chemistry laboratory
- Sophomore – small group tutor in analytical and inorganic chemistry
- Junior - advanced inorganic chemistry laboratory
- Junior - main group chemistry
- Senior - preparative and cluster chemistry
- Senior - communication skills
- Graduate - advanced methods in inorganic synthesis
- Graduate - safe handling of air-sensitive materials
- Graduate – computational modelling

Teaching Evaluations

- Strathclyde – average 4.6/5 from the student assessment of teaching
- Notre Dame – average 3.7/4 for overall perception of teaching
- Presented the Joyce Award for Excellence in Undergraduate Teaching in 2010

PROFESSIONAL AFFILIATIONS

- 2009-2016 Member of the Council for Chemical Research
 2002-2016 Member of the American Chemical Society
 ○ Inorganic Division and Organometallic Subdivision
 1990-2016 Fellow, Royal Society of Chemistry
 ○ Dalton Division and Main Group Chemistry

CURRENT GROUP MEMBERS

Graduate Students

Mounia Sacha	Amanda Holland
Jeremy Eberle	Kayla Lewis

Undergraduate Students

Brenna Cashman ND-2016	Ian Flyke ND-2016
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FORMER GROUP MEMBERS

Graduate Students Degree

<i>Graduate Students</i>	<i>Degree</i>	<i>Current or Immediate Position</i>
John Christie	Ph.D. (2015)	Research Scientist, Intel, Portland, OR
Jeff Bertke	Ph.D. (2012)	Research Specialist Crystallographer, U. Illinois Champaign
Erin Hurley	Ph.D. (2011)	Department of Homeland Security, Washington DC
Melanie Bunda	M.S. (2011)	High School Teacher, Boston MA
Katie Hull	Ph.D. (2009)	Carbolytic Materials Company, Iowa
Jeffery A. Rood	Ph.D. (2009)	Assistant Professor, Elizabethtown College, PA
J. Jacob Morris	Ph.D. (2008)	BAE Systems, Jefferson City, TN
Xuyang He	Ph.D. (2008)	Instructor, University of Southern Mississippi, MS
James J. Crawford	Ph.D. (2005) [†]	AstraZeneca, Alderley Park, UK
Emma L. Carswell	Ph.D. (2005) [†]	Organon Laboratories, Scotland, UK
Gordon Honeyman	Ph.D. (2005) [‡]	Ciba Giegy Chemicals, Paisley, UK
John F. Allan	Ph.D. (2005)	Research Chemist, Avecia, Scotland, UK
Lauren T. Wendell	M.S. (2005)	M.D., University Pittsburgh Medical Center, PA
Dugald MacDougall	Ph.D. (2005)	Clariant Oil Services, Aberdeen, UK
Charles T. O'Hara	Ph.D. (2004) [‡]	Associate Professor, University of Strathclyde, UK

Jennifer H. Moir Ph.D. (2002)[†] Organon Laboratories, Scotland, UK
 Arlene E. McKeown Ph.D. (2000)[‡] Merck & Co., Rahway, New Jersey, NJ
[†] Co-supervised with William J. Kerr, University of Strathclyde
[‡] Co-supervised with Robert E. Mulvey, University of Strathclyde

Postdoctoral Researchers

Dr. Will Buchanan (2011-2013)
 Dr. Roger Nassar (2002-2004)
 Dr. John F. Allan (2002-2003)
 Dr. Martin Basindale (2001-2002)
 Dr. Kamallesh Fondekari (2000-2001)
 Dr. Paul Moran, (1999-2000)
 Dr. Igor Rakov (1999)

Current or Immediate Position

Advanced Hybrid Materials Technologies, NY
 Rohm-Haas, MA
 Avecia, UK
 University of Texas at Austin, TX
 Ciba Specialty Chemicals, India
 Chirotech, UK
 University of Tennessee at Memphis, TN

Undergraduate students

Arianis Diaz (Tec de Monterrey-2015)
 Caroline Keefe (ND-2014)
 Anthony Rosales (Carroll College-2014)
 Michael Stecyk (ND-2012)
 Eric Guardino (ND-2011)
 Gillian Shaw (DePauw-2011)
 Gary Nijak (ND-2009)
 Sondra Hinman (SUNY, Buffalo-2007)
 Bridget O'Neil (ND-2007)
 Zach Sales (ND-2005)
 Julian Langer (Heidelberg-2002)
 Lynn Macdonald (Strathclyde-2002)
 Kevin Ward (Strathclyde-2001)
 Leigh Simmons (Strathclyde-2000)
 Ruth Fields (Strathclyde-2000)
 Gillian Ross (Strathclyde-1999)
 Milia Noll (Uppsala-1998)

Menglin Xia (Zhejiang-2015)
 Ziwei Guo (Fudan-2014)
 Brandon Tutkowski (Hendrix -2013)
 Patrick Gorman (ND-2012)
 Kayla Lewis (Aquinas-2011)
 Katherine McKenzie (ND-2010)
 John Randazzo (ND-2008)
 Joseph Blondin (ND-2007)
 Robert Mocadlo (ND-2007)
 Elizabeth Specht (ND-2005)
 John Taylor (Strathclyde-2002)
 David Shanks (Strathclyde-2001)
 Gordon Honeyman (Strathclyde-2001)
 Marine Boudou (Strathclyde-2000)
 Diane Strachan (Strathclyde-1999)
 Tobias Wrenn (Heidelberg-1999)
 John Allen (Strathclyde-1997)

High School Students

Joshua Tadevich (2012,2013)

Annamarie Dibley (2011, 2012)

High School Teachers

Ann Rutherford (2013, 2014)

Carlisle D'Souza (2012)

Sabbatical Host

Professor B. Narayana (1999-2000)
 Professor John Bender (2005)

Mangalore University, India
 Grand Valley State University, MI

MAJOR CURRENT FUNDING

Title: *NEB: Nanoelectronics with Mixed-valence Molecular QCA* (co-PI)
 Source: **National Science Foundation**, CHE11-24762
 Amount: \$1,550,000

Title: *GAANN Fellowships to Increase Diversity and Promote Academic Careers in the*

University of Notre Dame Department of Chemistry and Biochemistry (PI)

Source: **Department of Education**, P200A130203

Amount: \$ \$670,860

MAJOR PREVIOUS FUNDING

Title: *Carbon Dioxide Separation Using Novel N- and P-Heterocyclic Materials* (PI)

Source: **University of Notre Dame**, Sustainable Energy Initiative

Amount: \$115,600

Title: *Sustainable Energy Initiative* (co-PI)

Source: **University of Notre Dame**, Strategic Research Initiative

Amount: \$10,000,000

Title: *Enabling Solid-State NMR Research* (co-PI)

Source: **University of Notre Dame**, Equipment Restoration Fund

Amount: \$200,000

Title: *Upgrade to an Intense Dual-Source X-ray Diffractometer* (co-PI)

Source: **University of Notre Dame**, Equipment Restoration Fund

Amount: \$200,000

Title: *Acquisition of a Quadrupole Time-of-Flight Mass Spectrometer* (co-PI)

Source: **National Science Foundation**, CHE07-41793

Amount: \$344,685

Title: *Development of s-Block Organometallic Reagents* (sole PI)

Source: **National Science Foundation**, CHE07-17593

Amount: \$383,000

Title: *Acquisition of a Single-Crystal X-Ray Diffractometer with a CCD Area Detector and a High-Quality Optical Microscope* (co-PI)

Source: **National Science Foundation**, CHE04-43233

Amount: \$322,278

Period: 2005 – 2008

Title: *Application of s-Block Molecular Aggregates in the Controlled Assembly of Solid-State Materials* (sole PI)

Source: **Petroleum Research Fund**, 41716-AC3 (\$80 000).

Amount: \$80,00

Title: *Modernization of the Notre Dame Molecular Structure Facility* (PI)

Source: **University of Notre Dame**, Equipment Restoration Fund

Amount: \$222,000

Title: *Encapsulation of Water Inside a Molecular Potassium Aryloxyide Drum* (sole PI)

Source: **Department of Energy**, Argonne National Laboratory

Amount: \$25,000 (five days of beam time on the Intense Pulse Neutron Source)

Title: *Development of s-Block Organometallic Reagents* (sole PI)

Source: **National Science Foundation**, CHE03-45713
Amount: \$355,000

Title: *Enantioselective Deprotonation Reactions Mediated by Magnesium Bases* (co-PI)
Source: **Engineering and Physical Sciences Research Council**, GR/R07691
Amount: £72,000

Title: *Rapid Separation and Analysis Facility* (co-PI)
Source: **Engineering and Physical Sciences Research Council**
Amount: £250,000
Period: 2000 – 2003

Title: *Development of Novel Olefin Polymerization Catalysts* (co-PI)
Source: **Engineering and Physical Sciences Research Council**
Amount: Three-Year Graduate Fellowship, Quota Award
Period: 2000 – 2003

Title: *Use of Homochiral Magnesium Amides in Synthesis* (co-PI)
Source: **Glaxo-Wellcome**
Amount: Three-Year Graduate Fellowship, CASE Award

Title: *Synthesis and Utility of Geminal Dimetallic Complexes* (sole PI)
Source: **Engineering and Physical Sciences Research Council**
Amount: Three-Year Graduate Fellowship, Quota Award

Title: *Heteromolecular Asymmetric Induction Using Chiral Magnesium Reagents* (PI)
Source: **Engineering and Physical Sciences Research Council**, GR/M12711
Amount: £150,000

Title: *Use of Group 2 Metals in Asymmetric Synthesis* (co-PI)
Source: **Carnegie Foundation**
Amount: Three-Year Graduate Fellowship

Title: *Main Group Enolate Chemistry* (PI)
Source: **The Royal Society**
Amount: One-Year Postdoctoral Fellowship, Ex-quota Award

Title: *Application of Main Group Clusters in Olefin Polymerization Catalysis* (PI)
Source: **BP Chemicals**
Amount: Three-Year Graduate Fellowship, Case Award

Title: *University Research Fellowship* (sole PI)
Source: **The Royal Society**
Amount: Annual Salary and Research Expenses (~£300,000)

Title: *Development of Homochiral Magnesium Reagents* (co-PI)
Source: **Mackie Foundation**
Amount: Three-Year Graduate Fellowship

Title: *Acquisition of a 400MHz NMR Spectrometer* (co-PI)

Source: **Engineering and Physical Sciences Research Council**, GR/L26148/01
 Amount: £85 000

PEER-REVIEWED PUBLICATIONS

1. "Solving the Counter Ion and Clocking Problems in Molecular QCA: Synthesis of a Neutral Mixed Valence Diferrocenyl Carborane" Christie, J. A.; Forrest, R. P.; Corcelli, S. A.; Wasio, N. A.; Quardokus, R. C.; Brown, R.; Kandel, S. A.; Lu, Y.; Lent, C. S.; Henderson, K. W. *Angew Chem. Int. Ed.* **2015**, *54*, 15448.
2. "Hydrogen-bonded clusters of 1, 1'-ferrocenedicarboxylic acid on Au(111) are initially formed in solution" Quardokus, R. C.; Wasio, N. A.; Brown, R. D.; Christie, J. A.; Henderson, K. W.; Forrest, R. P.; Lent, C. S.; Corcelli, S. A.; Kandel, S. A. *J. Chem. Phys.* **2015**, *142*, 101927.
3. "Hydrogen-bonded clusters of ferrocenecarboxylic acid on Au(111)" Quardokus, R. C.; Wasio, N. A.; Christie, J. A.; Henderson, K. W.; Forrest, R. P.; Lent, C. S.; Corcelli, S. A.; Kandel, S. A. *Chem. Commun.* **2014**, *50*, 10229.
4. "Self-assembly of hydrogen-bonded two-dimensional quasicrystals" Wasio, N. A.; Quardokus, R. C.; Forrest, R. P.; Lent, C. S.; Corcelli, S. A.; Christie, J. A.; Henderson, K. W.; Kandel, S. A. *Nature* **2014**, *507*, 86.
5. "Adsorption of diferrocenylacetylene on Au(111) studied by scanning tunneling microscopy" Quardokus, R. C.; Wasio, N. A.; Forrest, R. P.; Lent, C. S.; Corcelli, S. A.; Christie, J. A.; Henderson, K. W.; Kandel, S. A. *Phys. Chem. Chem. Phys.* **2013**, *15*, 6973.
6. "Synthesis and small molecule exchange studies of a magnesium bisformate metal-organic framework: an experiment in host-guest chemistry for the undergraduate laboratory" Rood, J. A.; Henderson, K. W. *J. Chem. Ed.* **2013**, *90*, 379.
7. "Magnesium bis(hexamethyldisilazide)" Buchanan, W. D.; Henderson, K.W. *Encyclopedia of Reagents for Organic Synthesis* [Online], **2013**, John Wiley & Sons Ltd., <http://onlinelibrary.wiley.com/book/10.1002/047084289X.rn01556>.
8. "Catena-poly[[penta-[mu]-benzoato-[mu]-chlorido-dioxanedineodymium(III)] dioxane 2.5-solvate]" Bertke, J. A.; Oliver, A. G.; Henderson, K. W. *Acta Cryst. Sect. E* **2012**, *E68*, m690.
9. "Effects of the alkali-metal cation size on molecular and extended structures: formation of coordination polymers and hybrid materials in the homologous series [(4-Et-C₆H₄OM)·(diox)_n], M = Li, Na, K, Rb, Cs" Bertke, J. A.; Oliver, A. G.; Henderson, K. W. *Inorg. Chem.* **2012**, *51*, 1020.
10. "Structure of an unsymmetrical heptalithium cage complex containing aldolate and enolized aldolate dianion" Henderson, K. W.; Dorigo, A. E.; MacEwan, G. J.; Williard, P. G. *Tetrahedron Lett.* **2011**, *67*, 10291.
11. "Synchrotron study of poly[[di-μ-aqua(μ-2,2-bipyridyl-5,5-dicarboxylato)dipotassium] dihydrate] Bertke, J. A.; Oliver, A. J.; Henderson, K. W. *Acta Cryst.* **2009**, *E65*, m1265.

12. "homochiral frameworks derived from magnesium, zinc and copper salts of L-tartaric acid" Rood, J. A.; Noll, B. C.; Henderson, K. W. *J. Solid State Chem.* **2009**, *183*, 270.
13. "A homochiral metal-organic framework with amino-functionalized pores" Rood, J. A.; Noll, B. C.; Henderson, K. W. *Main Group Chem.* **2009**, *8*, 237.
14. "Dramatic effect of aggregation on rates and thermodynamics of stereoisomerization of magnesium enolates" Hurley, E. R.; He, X.; Brown, S. N.; Henderson, K. W. *J. Am. Chem. Soc.* **2009**, *131*, 6056.
15. "High-connectivity networks and hybrid inorganic rod materials built from potassium and rubidium *para*-halide substituted aryloxides" Morris, J. J.; Noll, B. C.; Henderson, K. W. *Inorg. Chem.* **2008**, *47*, 9583
16. "Lithium-mediated ring opening of 1,4-dioxane and structural characterization of a $\text{Li}_{12}\text{O}_{12}$ truncated octahedron" Randazzo, J.; Morris, J. J.; Rood, J. A.; Noll, B. C.; Henderson, K. W. *Inorg. Chem. Commun.* **2008**, *11*, 1270.
17. "The use of halide-substituted anilines for the formation of magnesium imides" Rood, J. A.; Hinman, S. E.; Noll, B. C.; Henderson, K. W. *Eur. J. Inorg. Chem.* **2008**, 3935.
18. "Manipulation of molecular aggregation and supramolecular structure using self-assembled lithium mixed-anion complexes" Morris, J. J.; MacDougall, D. J.; Noll, B. C.; Henderson, K. W. *Dalton Trans.* **2008**, 3429.
19. "Regio- and stereoselective enolizations using calcium bis(hexamethyldisilazide) as a base: synthetic, solid-state and solution studies" He, X.; Hurley, E.; Noll, B. C.; Henderson, K. W. *Organometallics* **2008**, *28*, 3094.
20. "Homo- and heterodimetallic geminal dianions derived from the bis(phosphinimine) $\{\text{Ph}_2\text{P}(\text{NSiMe}_3)\}_2\text{CH}_2$ and the alkali metals Li, Na and K" Hull, K. L.; Carmichael, I.; Noll, B. C.; Henderson, K. W. *Chem. Eur. J.* **2008**, *14*, 3939.
21. "X-ray and neutron diffraction studies of water-encapsulated inside potassium aryloxide aggregates: complementary host-guest stabilization of mono- and dihydrated Cages" Morris, J. J.; Noll, B. C.; Schultz, A. J.; Piccoli, P. M. B.; Henderson, K. W. *Inorg. Chem.* **2007**, *46*, 10473.
22. "High-connectivity networks: characterization of the first uninodal 9-connected net and two topologically novel 7-connected nets" Morris, J. J.; Noll, B. C.; Henderson, K. W. *Chem. Commun.* **2007**, 5191.
23. "Assembly of a homochiral, body-centered cubic network composed of vertex-shared Mg_{12} cages: use of electrospray ionization mass spectrometry to monitor metal carboxylate nucleation" Rood, J. A.; Boggess, W. C.; Noll, B. C.; Henderson, K. W. *J. Am. Chem. Soc.* **2007**, *129*, 13675.
24. "Polymeric mixed-metal hexamethyldisilazide $[\{(\text{Me}_3\text{Si})_2\text{NLi}\}\{(\text{Me}_3\text{Si})_2\text{NK}\}]_n$ " Morris, J. J.; Noll, B. C.; Henderson, K. W. *Acta Cryst. Sect. E* **2007**, *63*, m2477.

25. "Synthesis, structure, and computational studies of the tetrameric magnesium imides [2,4,6-Cl₃-C₆H₂NMg·S]₄ (S = 1,4-dioxane, THF)" Rood, J. A.; Noll, B. C.; Henderson, K. W. *Inorg. Chem.* **2007**, 46, 7259.
26. "Organomagnesium-Group 15 and Group 16-Bonded Complexes" Hull, K. L.; Henderson, K. W. *Organomagnesium Reagents* **2007**, Elsevier: Oxford
27. "2,2,6,6-Tetramethylpiperidine" Hull, K. L.; Henderson, K. W. *Encyclopedia of Reagents for Organic Synthesis [Online]* **2007**, DOI: 10.1002/047084289X.rt067.
28. "Organometallic polymers assembled from cation- π interactions: use of ferrocene as a ditopic linker within the homologous series [{(Me₃Si)₂NM} ₂·(Cp₂Fe)]_n (M = Na, K, Rb, Cs)" Morris, J. J.; Noll, B. C.; Honeyman, G. W.; O'Hara, C. T.; Kennedy, A. R.; Mulvey, R. E.; Henderson, K. W. *Chem. Eur. J.* **2007**, 13, 4418.
29. "4-Methoxy- and 4-cyano-substituted lithium aryloxides: electronic effects of substituents on aggregation" Henderson, K. W.; Noll, B. C.; Kennedy, A. R.; MacDougall, D. J. *Dalton Trans.* **2006**, 1875.
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