

## Dr Conrad A. P. Goodwin

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**Date of Birth:** 14/02/1991

### Career:

- **2018–2021:** J. Robert Oppenheimer Fellowship at Los Alamos National Lab
- **2017–2018:** EPSRC Doctoral Prize Fellowship at the University of Manchester
- **2013–2017:** PhD Awarded (April 2017) by the University of Manchester
- **2009–2013:** MChem (Hons) Degree, First Class Honours at the University of Manchester

### Top five Recent Papers:

- **8 peer-reviewed publications**, which have received over **100 citations** (ResearcherID: I-6094-2016, search date 5/18) and 2 book chapters. Includes 1 *Nature*, 1 *JACS*, 2 *Inorg. Chem.*, 1 *Chem. Commun.*.
- 1. "Molecular magnetic hysteresis at 60 kelvin in dysprosocenium." C. A. P. Goodwin, F. Ortu, D. Reta, N. F. Chilton, D. P. Mills, *Nature*, **2017**, *548*, 439.  
**Highlighted in:** *New Scientist*, *Chemistry World*, *PhysOrg* and *Chemical & Engineering News*.
- 2. "Synthesis and Electronic Structures of Heavy Lanthanide Metallocenium Cations." C. A. P. Goodwin, D. Reta, F. Ortu, N. F. Chilton, D. P. Mills, *J. Am. Chem. Soc.*, **2017**, DOI: 10.1021/jacs.7b11535.
- 3. "An Investigation into the Effects of a Trigonal Planar Ligand Field on the Electronic Properties of Lanthanide(II) Tris(silylamide) Complexes (Ln = Sm, Eu, Tm, Yb)." C. A. P. Goodwin, N. F. Chilton, L. S. Natrajan, M. -E. Boulon, J. W. Ziller, W. J. Evans, D. P. Mills, *Inorg. Chem.*, **2017**, *56*, 5959.
- 4. "Physicochemical properties of near-linear Ln(II) bis-silylamide complexes (Ln = Sm, Eu, Tm, Yb)." C. A. P. Goodwin, N. F. Chilton, G. F. Vettese, E. Moreno Pineda, I. F. Crowe, J. W. Ziller, R. E. P. Winpenny, W. J. Evans, D. P. Mills, *Inorg. Chem.*, **2016**, *55*, 10057.
- 5. "The first near-linear bis(amide) f-block complex: a blueprint for a high temperature single molecule magnet." N. F. Chilton, C. A. P. Goodwin, D. P. Mills, R. E. P. Winpenny, *Chem. Commun.*, **2015**, *51*, 101. **Cited: 62 times**

### Grants, Awards and Esteem:

- RSC Dalton Emerging Researcher Award (2018)
- J. Robert Oppenheimer Fellowship (2018, ~£245k).
- EPSRC Doctoral Prize Fellowship (2017, £41k).
- RSC Researcher Mobility Fellowship (2015, £5k) – 3-month visit to UCI with Prof. Evans, this resulted in two publications (*Inorg. Chem.* X 2)
- RSC travel bursary to attend and present a talk at EuFEN4 in Portugal (2015).
- RSC Dalton Division talk prize-winner at DYME (Dalton Younger Member Event) 2015 and 2017.

### Teaching, Admin and Citizenship:

- Assist in undergraduate workshops on core introductory chemistry
- Supervised final year MChem (2013–2017), BSc (2016), and summer MSc students.
- Past and present representative and member of several service support user groups (NMR, CRR, X-ray, solvent purification) across the School of Chemistry.
- Member of staff-survey committee in chemistry, addressing staff concerns at school level.

### Outreach:

- Speaker at several regional high schools in the North West U.K., with repeated visits highlighting core-curriculum work as applied to cutting edge research and broader multi-disciplinary issues in science.
- Active member in the chemistry community on Twitter, promoting outreach, public engagement in fundamental science, and gender equality.