

## Dr. Oliver Pecher

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Webpage: [www.oliver-pecher.de](http://www.oliver-pecher.de)  
Date of birth: 30/11/1983  
Place of birth: Plauen i.V. (DE)  
Nationality: Germany

### Professional experience

- Since 04/2017 **NMR Service GmbH** (Erfurt, DE)  
Vice President
- Head of R&D, application scientist for NMR/NQR equipment and *in situ* NMR/MRI and automation in NMR
  - Sales, marketing, and customer support
- Since 03/2017 **University of Cambridge, Department of Chemistry** (Cambridge, UK)  
Group leader *in situ* NMR and MRI  
Application scientist / assistant lab manager
- Development and application of new *in situ* NMR/MRI techniques
  - Assistant to the lab manager (applications, industry inquiries, contracts)
- 02/2014 – 03/2017 **University of Cambridge, Department of Chemistry** (Cambridge, UK)  
Marie Skłodowska-Curie Fellow (Postdoc)
- Project management: New *in situ* solid-state NMR techniques for real-time investigations on lithium and sodium battery materials
  - Team leader: All-solid-state batteries and robotics in NMR
  - Group seminar management/coordination (40+ people, 15 nationalities)
- 07/2013 – 01/2014 **University of Bayreuth, Inorganic Chemistry III** (Bayreuth, DE)  
Scientific employer (Postdoc)
- Investigation of CO<sub>2</sub> absorption in Metal Organic Frameworks
- 07/2010 – 06/2013 **RWTH Aachen University, Institute for Inorganic Chemistry** (Aachen, DE)  
Scientific employer (PhD student)
- Investigation of structure-property-relationships of intermetallic compounds by solid-state NMR spectroscopy and X-ray diffraction
- 09/2008 – 07/2010 **Max Planck Institute for Chemical Physics of Solids** (MPI CPfS, Dresden, DE)  
Scientific employer (PhD student)
- Synthesis and characterisation of intermetallic compounds

### Freelance work

- Since 05/2016 Expert with *Nimirum* GbR Leipzig (DE)  
Since 09/2013 *PECHER Consulting* (DE) – Innovative NMR approaches

### Education

- 05/2014 – 08/2014 Emerging Research Leaders' Development Programme (Cambridge, UK)  
09/2008 – 06/2013 PhD, MPI CPfS und RWTH Aachen (Dr. rer. nat.; *summa cum laude*)  
10/2003 – 08/2008 Diploma studies Chemistry, Technical University Dresden (Dipl.-Chem.)

### Fellowships, awards, and management of research proposals

02/2018 (to come)	HIRP OPEN Proposal (Huawei) 2017: Advanced studies of solid electrolytes for lithium-metal batteries by <i>in situ</i> NMR/MRI and high-resolution <i>in situ</i> MAH NMR – contract currently finalised
03/2017	DLS I11 2 years LDE (#EE16733) on “ <i>In situ</i> synchrotron X-ray studies cathode composites for Li-ion all-solid-state batteries”
12/2016	STFC Experimental Design Award
03/2015	Marie Skłodowska-Curie Individual Fellowship H2020-MSCA-IF-2014-EF
09/2014	Borchers medal (RWTH Aachen University)

### Professional societies

Since 2016	Member of The Royal Society of Chemistry (MRSC)
Since 2016	The Electrochemically Society (ECS)
Since 2013	German Crystallographic Society (DGK) Founder of the workgroup <a href="#">Young Crystallographers (YC)</a>
Since 2009	German Chemical Society (GDCh)

### Organisation of scientific meetings

09/2014 and 2016	<a href="#">1<sup>st</sup> (Bremen, DE)</a> and <a href="#">2<sup>nd</sup> (Berlin, DE) Meeting of the DGK's YC</a>
03/2016	<a href="#">2<sup>nd</sup> YC's Lightning Talks Session and 4<sup>th</sup> Get Together</a> (Stuttgart, DE)
09/2015	<a href="#">The DGK's YC Lab Meeting @ STOE</a> (Darmstadt, DE)
03/2015	<a href="#">1<sup>st</sup> YC's Lightning Talks Session and 3<sup>rd</sup> Get Together</a> (Göttingen, DE)

### Skills and expertise

- In-depth knowledge in solid-state chemistry, materials science, and energy storage
  - Development and optimisation of synthesis strategies in the lab scale
  - Materials' characterisation via solid-state NMR spectroscopy and X-ray diffraction
  - Structure-property-relationships of intermetallic compounds
  - Real-time studies and *in situ* analysis of battery materials under working conditions (*in situ* NMR and *in situ* high-temperature synchrotron X-ray diffraction)
  - Solid-state NMR hardware development and implementation
  - 25 publications in international, peer-reviewed journals (10 first authorships), 1 book chapter
  - 27 talks (6 invites) and 15 poster contributions on international conferences
- Multi-year work experience abroad (England); experience in event management and donation marketing
- Comprehensive experience with outreach activities: [interviews](#), [Instagram](#), and [Twitter](#)
- Reviewer for various scientific journals including “Solid State Nuclear Magnetic Resonance”, “Journal of Magnetic Resonance”, “Chemistry of Materials”, and “Journal of the American Chemical Society”
- Experience in international project management and scientific collaborations with Japan, France, UK, Lithuania, United Arab Emirates, Sweden, and Israel
- Language skills: German (native speaker), English (full professional), French (basic knowledge)

### Private interests

- [uniSono](#) choir Leipzig (DE)
- Hiking

## Publications in international peer-reviewed scientific journals

1. L. E. Marbella and O. Pecher. Einblicke in Echtzeit: Untersuchungen an Batteriematerialien. (English: Real-time Insights: Investigations on Battery Materials). *Nachr. Chem.* **2017**, 65, 1213-1218.  
[DOI: 10.1002/nadc.20174067376](https://doi.org/10.1002/nadc.20174067376)
2. W. Meng, R. Pigliapochi, P. M. Bayley, O. Pecher, M. W. Gaultois, I. D. Seymour, H. Liang, W. Xu, K. M. Wiaderek, K. W. Chapman, C. P. Grey. Unravelling the Complex Delithiation and Lithiation mechanisms of the high capacity cathode material  $V_6O_{13}$ . *Chem. Mater.* **2017**, 29(13), 5513-5524.  
[DOI: 10.1021/acs.chemmater.7b00428](https://doi.org/10.1021/acs.chemmater.7b00428)
3. J. M. Stratford, M. Mayo, P. K. Allan, O. Pecher, O. J. Borkiewicz, K. M. Wiaderek, K. A. Chapman, C. J. Pickard, A. J. Morris, C. P. Grey. Investigating Sodium Storage Mechanisms in Tin Anodes: A Combined Pair Distribution Function Analysis, Density Functional Theory and Solid-State NMR Approach. *J. Am. Chem. Soc.* **2017**, 139 (21), 7273-7286.  
[DOI: 10.1021/jacs.7b01398](https://doi.org/10.1021/jacs.7b01398)
4. O. Pecher, D. M. Halat, J. Lee, Z. Liu, K. J. Griffith, M. Braun, C. P. Grey. Enhanced efficiency of solid-state NMR investigations of energy materials via the external Automatic Tuning/Matching (eATM) robot. *J. Magn. Reson.* **2017**, 275, 127-136.  
[DOI: 10.1016/j.jmr.2016.12.008](https://doi.org/10.1016/j.jmr.2016.12.008)
5. **Chem. Mater. "Most Read Articles (Top 20)" of 01/2017 and 02/2017 with > 3,200 article views by 12/2017:**  
O. Pecher, J. Carretero-González, K. J. Griffith, C. P. Grey. Materials' Methods: NMR in Battery Research. *Chem. Mater.* **2017**, 29, 213-242.  
[DOI: 10.1021/acs.chemmater.6b03183](https://doi.org/10.1021/acs.chemmater.6b03183)
6. O. Pecher, B. Mausolf, V. Peters, A. Korthaus, F. Haarmann. Unravelling local atomic order of the anionic sublattice in  $M(Al_{1-x}Ga_x)_4$  with  $M = Sr$  and  $Ba$  by NMR spectroscopy and quantum mechanical modelling. *Chem. Eur. J.* **2016**, 22, 17833-17842.  
[DOI: 10.1002/chem.201602475](https://doi.org/10.1002/chem.201602475)
7. J. M. Stratford, P. K. Allan, O. Pecher, P. A. Chater, C. P. Grey. Mechanistic insights into sodium storage in hard carbon anodes using local structure probes. *Chem. Commun.* **2016**, 52, 12430-12433.  
[DOI: 10.1039/C6CC06990H](https://doi.org/10.1039/C6CC06990H)
8. L. M. Scherf, O. Pecher, K. J. Griffith, F. Haarmann, C. P. Grey, T. F. Fässler. The Ternary Zintl Phases  $K_{4-x}Na_xSi_4$  ( $1 \leq x \leq 2.2$ ) and  $K_7NaSi_8$  – Synthesis, Crystal Structure, and Solid State NMR Spectroscopic Investigations. *Eur. J. Inorg. Chem.* **2016**, 2016(28), 4674-4682.  
[DOI: 10.1002/ejic.201600735](https://doi.org/10.1002/ejic.201600735)
9. G. Oyama, O. Pecher, K. J. Griffith, S. Nishimura, R. Pigliapochi, C. P. Grey, A. Yamada. Sodium Intercalation Mechanism of 3.8 V Class Alluaudite Sodium Iron Sulfate. *Chem. Mater.* **2016**, 18(15), 5321-5328.  
[DOI: 10.1021/acs.chemmater.6b01091](https://doi.org/10.1021/acs.chemmater.6b01091)
10. O. Pecher, P. M. Bayley, H. Liu, Z. Liu, N. M. Trease, C. P. Grey. Automatic Tuning Matching Cyclor (ATMC) *in situ* NMR spectroscopy as a novel approach for real-time investigations of Li- and Na-ion batteries. *J. Magn. Reson.* **2016**, 265, 200-209.  
[DOI: 10.1016/j.jmr.2016.02.008](https://doi.org/10.1016/j.jmr.2016.02.008)
11. O. Pecher, A. Vyalikh, C. P. Grey. Challenges and new opportunities of *in situ* NMR characterization of electrochemical processes. *AIP Conference Proceedings* **2016**, 1765, 020011.  
[DOI: 10.1063/1.4961903](https://doi.org/10.1063/1.4961903)
12. **Angew. Chem. VIP paper (highlighted DOI: 10.1002/anie.201600424 and 10.1002/ange.201600424):**  
L. M. Scherf, A. J. Karttunen, O. Pecher, P. Magusin, C. P. Grey, T. F. Fässler.  $[Ge_2]^{4-}$  Dumbbells with Very Short Ge—Ge Distances in the Zintl Phase  $Li_3NaGe_2$  – a Solid State Equivalent to Molecular  $O_2$ . *Angew. Chem. Int. Ed.* **2015**, 55, 1075-1079; *Angew. Chem.* **2015**, 128, 1087-1091.  
[DOI: 10.1002/anie.201508044](https://doi.org/10.1002/anie.201508044) (English) and 10.1002/ange.201508044 (German)
13. **Chem. Eur. J. "Hot Paper" with inside cover:**  
O. Pecher, B. Mausolf, K. Lamberts, D. Oligschläger, C. Niewieszol (née Merken), U. Englert, F. Haarmann. The Solid Solution  $Sr_{1-x}Ba_xGa_2$ : Substitutional Disorder and Chemical Bonding Visited by NMR Spectroscopy and Quantum Mechanical Calculations. *Chem. Eur. J.* **2015**, 21, 13971-13982.  
[DOI: 10.1002/chem.201501910](https://doi.org/10.1002/chem.201501910)
14. Y. Deng, C. Eames, J.-N. Chotard, F. Lalère, V. Seznec, S. Emge, O. Pecher, C. P. Grey, M. S. Islam, C. Masquelier. Structural and mechanistic insights into fast lithium-ion conduction in  $Li_4SiO_4$ — $Li_3PO_4$  solid electrolytes. *J. Am. Chem. Soc.* **2015**, 137, 9136-9145.  
[DOI: 10.1021/jacs.5b04444](https://doi.org/10.1021/jacs.5b04444)

15. O. Pecher, M. Esters, A. Görne, B. Mausolf, A. Ormeci, F. Haarmann. The Zintl Phase Cs<sub>7</sub>NaSi<sub>8</sub> – From NMR Signal Line Shape Analysis and Quantum Mechanical Calculations to Chemical Bonding. *Z. anorg. allg. Chem.* **2014**, *640(11)*, 2169-2176.  
[DOI: 10.1002/zaac.201400194](https://doi.org/10.1002/zaac.201400194)
16. M. Waibel, O. Pecher, B. Mausolf, F. Haarmann, T. F. Fässler. NaRb<sub>7</sub>(Si<sub>4-x</sub>Ge<sub>x</sub>)<sub>2</sub> – Soluble Zintl Phases Containing Heteroatomic Tetrahedral [Si<sub>4-x</sub>Ge<sub>x</sub>]<sup>4-</sup> Clusters. *Eur. J. Inorg. Chem.* **2013**, *32*, 5541-5546.  
[DOI: 10.1002/ejic.201300943](https://doi.org/10.1002/ejic.201300943)
17. O. Pecher, F. Haarmann. In intermetallische Phasen hinein schauen (English: Looking Into Intermetallic Phases). *Nachr. Chem.* **2013**, *61*, 1018-1021.  
[DOI: 10.1002/nadc.201390315](https://doi.org/10.1002/nadc.201390315)
18. C. Merckens, O. Pecher, F. Steuber, S. Eisenhut, A. Görne, F. Haarmann, U. Englert. Crystal-to-Crystal Transformations in a Seven-Coordinated Sc Complex. *Z. anorg. allg. Chem.* **2013**, *639(2)*, 340-346.  
[DOI: 10.1002/zaac.201200386](https://doi.org/10.1002/zaac.201200386)
19. T. Goebel, A. Ormeci, O. Pecher, F. Haarmann. The Silicides M<sub>4</sub>Si<sub>4</sub> with M = Na, K, Rb, Cs and Ba<sub>2</sub>Si<sub>4</sub> – NMR Spectroscopy and Quantum Mechanical Calculations. *Z. anorg. allg. Chem.* **2012**, *638(10)*, 1437-1445.  
[DOI: 10.1002/zaac.201200198](https://doi.org/10.1002/zaac.201200198)
20. Y. Liang, B. Böhme, A. Ormeci, H. Borrmann, O. Pecher, F. Haarmann, W. Schnelle, M. Baitinger, Yu. Grin. A Clathrate-I Phase with Li-Ge Framework. *Chem. Eur. J.* **2012**, *18(32)*, 9818-9822.  
[DOI: 10.1002/chem.201202069](https://doi.org/10.1002/chem.201202069)
21. F. Haarmann, K. Koch, P. Jeglič, O. Pecher, H. Rosner, Yu. Grin. NMR Spectroscopy of Intermetallic Compounds: An Experimental and Theoretical Approach to Local Atomic Arrangements in Binary Gallides. *Chem. Eur. J.* **2011**, *17(27)*, 7560-7568.  
[DOI: 10.1002/chem.201003486](https://doi.org/10.1002/chem.201003486)
22. T. Goebel, Yu. Prots, A. Ormeci, O. Pecher, F. Haarmann. Synthesis, Crystal Structure and Chemical Bonding of the Zintl Phase Rb<sub>7</sub>NaSi<sub>8</sub>. *Z. anorg. allg. Chem.* **2011**, *637*, 1982-1991.  
[DOI: 10.1002/zaac.201100349](https://doi.org/10.1002/zaac.201100349)
23. D. Bräunling, O. Pecher, D. M. Trots, A. Senyshyn, D. A. Zherebtsov, F. Haarmann, R. Niewa. Synthesis, Crystal Structure and Li Motion of Li<sub>8</sub>SeN<sub>2</sub> and Li<sub>8</sub>TeN<sub>2</sub>. *Z. anorg. allg. Chem.* **2010**, *636*, 936-946.  
[DOI: 10.1002/zaac.201000002](https://doi.org/10.1002/zaac.201000002)
24. O. Pecher, S.-T. Kong, T. Goebel, V. Nickel, K. Weichert, C. Reiner, H. J. Deiseroth, J. Maier, F. Haarmann, D. Zahn. Atomistic Characterisation of Li<sup>+</sup> Mobility and Conductivity in Li<sub>7-x</sub>PS<sub>6-x</sub>Lyx Argyrodites from Molecular Dynamics Simulations, Solid-State NMR and Impedance Spectroscopy. *Chem. Eur. J.* **2010**, *16*, 8347-8354.  
[DOI: 10.1002/chem.201000501](https://doi.org/10.1002/chem.201000501)
25. F. Haarmann, K. Koch, D. Grüner, W. Schnelle, O. Pecher, R. Cardoso-Gil, H. Borrmann, H. Rosner, Yu. Grin. Electronic Structure, Chemical Bonding, and Solid-State NMR Spectroscopy of the Digallides of Ca, Sr, and Ba. *Chem. Eur. J.* **2009**, *15*, 1673-1684.  
[DOI: 10.1002/chem.200801131](https://doi.org/10.1002/chem.200801131)

#### Publications from conference proceedings

1. O. Pecher, S. Emge, Y. Deng, S. Islam, C. Masquelier, C. P. Grey. Crystal structures and Li ion dynamics of Li<sub>3</sub>PO<sub>4</sub>—Li<sub>4</sub>SiO<sub>4</sub> revisited by NMR. *Z. Kristallogr.* **2015**, *Suppl. 35*, 39-40.
2. O. Pecher, H. Liu, C. P. Grey. Next level real-time studies of LiFePO<sub>4</sub> electrodes by <sup>7</sup>Li *in situ* NMR. *Z. anorg. allg. Chem.* **2014**, *640(11)*, 2339.
3. V. Peters, O. Pecher, B. Mausolf, F. Haarmann. Ba<sub>21</sub>Al<sub>40</sub> investigated by NMR and quantum mechanical calculations. *Z. anorg. allg. Chem.* **2014**, *640(11)*, 2362.
4. O. Pecher, F. Haarmann. Substitutional Disorder in Intermetallic Phases: Investigations of Chemical Bonding by XRD—NMR—QM. *Z. Kristallogr.* **2013**, *Suppl. 33*, 30.
5. F. Haarmann, O. Pecher. Local order in intermetallic compounds investigated by SMARTER NMR spectroscopy. *Z. Kristallogr.* **2013**, *Suppl. 33*, 28-29.
6. O. Pecher, F. Haarmann. Ga Bonding Variability in Ca<sub>1-x</sub>Ga<sub>2+3x</sub> Visited by Solid-State NMR Spectroscopy. *Z. anorg. allg. Chem.* **2012**, *638(10)*, 1622.
7. O. Pecher, F. Haarmann. The Automatic Tuning Matching Goniometer (ATMG) Probe System: Mapping Chemical Questions Using Orientation Dependent NMR Experiments. *Z. Kristallogr.* **2012**, *Suppl. 32*, 24.
8. O. Pecher, F. Haarmann. Sr<sub>1-x</sub>Ba<sub>x</sub>Ga<sub>2</sub>: NMR Spectroscopy. *Z. anorg. allg. Chem.* **2010**, *636(11)*, 2089.

9. O. Pecher, H. Borrmann, Yu. Prots, F. Haarmann. The Ga-Rich Part of the Phase Diagram Ca–Ga. *Z. Kristallogr.* **2009**, *Suppl.* 29, 32.
10. O. Pecher, F. Haarmann. Solid-State NMR of  $\text{Ca}_{1-x}\text{Ga}_{2+3x}$ . *Z. anorg. allg. Chem.* **2008**, 634(11), 2069.

#### Book chapters

1. Pieter C. M. M. Magusin, Ieuan Seymour, Oliver Pecher, Clare P. Grey. NMR on Electrochemical Storage Materials (Chapter 11). *New Developments in NMR No. 15, Modern Methods in Solid-state NMR: A Practitioner's Guide* (Editor Paul Hodgkinson). The Royal Society of Chemistry **2018** (proofs in revision).

#### Support and/or attendance of conferences (with NMR Service GmbH since 04/2017)

1. *To come*: 40<sup>th</sup> GDCh FGMR Annual Discussion Meeting (Leipzig, DE) 09/**2018**.
2. *To come*: SMARTER 2018 (Ljubljana, SL) 09/**2018**.
3. *To come*: Rocky Mountain Conference on Magnetic Resonance (Snowbird, Utah, USA) 07/**2018**.
4. *To come*: EUROMAR 2018 (Nantes, FR) 07/**2018**.
5. *To come*: Spring ACS National Meeting (New Orleans, LA, USA) 04/**2018**.
6. *To come*: HäKo 2018 (Leipzig, DE) 03/**2018**.
7. 39<sup>th</sup> GDCh FGMR Annual Discussion Meeting (Bayreuth, DE) 09/**2017**.
8. EUROMAR 2017 (Warsaw, PL) 06/**2017**.

#### Talks

1. 5<sup>th</sup> Annual Meeting of the STFC Batteries Network (Abingdon, UK) 06/**2017** – invited.
2. Lancaster University, Materials Chemistry (Lancaster, UK) 02/**2017**.
3. WMG Battery School (Warwick, UK) 10/**2016** – invited.
4. CE Ltd. – Physical Sciences Commercialisation Workshop (Cambridge, UK) 10/**2016**.
5. 2<sup>nd</sup> Meeting of the DGK's Young Crystallographers (Berlin, DE) 09/**2016**.
6. Technical University Dresden, Inorganic Chemistry II Meeting (Dresden, DE) 07/**2016**.
7. HäKo (Karlsruhe, DE) 03/**2016**.
8. 24<sup>th</sup> DGK's Annual Meeting (Stuttgart, DE) 03/**2016**.
9. Leipzig University, Inorganic Chemistry / Crystallography (Leipzig, DE) 01/**2016** – invited.
10. The DGK's Young Crystallographers Lab Meeting @ STOE (Darmstadt, DE) 09/**2016**.
11. "White Nights Science" Meeting and Summer School (Tallinn, EST) 06/**2015** – invited.
12. 2<sup>nd</sup> ESTORM (Freiberg, DE) 06/**2015** – invited.
13. 23<sup>rd</sup> DGK's Annual Meeting (Göttingen, DE) 03/**2015**.
14. HäKo (Munich, DE) 02/**2015**.
15. 1<sup>st</sup> Meeting of the DGK's Young Crystallographers (Bremen, DE) 09/**2014**.
16. SMARTER 4 Conference (Durham, UK) 09/**2014**.
17. Johnson Matthey Technology Centre (Sonning Common, UK) 07/ **2014** – invited.
18. Hirscheegg Seminar on Solid-State Chemistry (Hirscheegg, AT) 06/**2013**.
19. 21<sup>st</sup> DGK's Annual Meeting (Freiberg, DE) 03/**2013**.
20. HäKo (Freiburg i.Br., DE) 03/**2013**.
21. University of Bayreuth, Inorganic Chemistry III (Bayreuth, DE) 02/**2013**.
22. University of Cambridge, Department of Chemistry (Cambridge, UK) 02/**2013**.
23. Laue Day and 20<sup>th</sup> DGK's Annual Meeting (Munich, DE) 03/**2012**.
24. HäKo (Oldenburg, DE) 03/**2012**.

25. Hirschegg Seminar on Solid-State Chemistry (Hirschegg, AT) 06/2011.
26. Hirschegg Seminar on Solid-State Chemistry (Hirschegg, AT) 06/2010.
27. NMR Workshop: Understanding Inorganic Materials with the Help of NMR Spectroscopy and Electronic Calculations (MPI CPfS Dresden, DE) 03/2009.

#### Poster presentations

1. SMARTER 5 Conference (Bayreuth, DE) 09/2016.
2. IMLB (Chicago, USA) 06/2016.
3. EUROMAR (Prague, CZ) 07/2015.
4. UK Energy Storage Conference (UKES 2014, Warwick, UK) 11/2014.
5. 17<sup>th</sup> GDCh Solid-State Chemistry Conference (Dresden, DE) 09/2014.
6. SMARTER 4 Conference (Durham, UK) 09/2014.
7. 16<sup>th</sup> GDCh Solid-State Chemistry Conference (Darmstadt, DE) 09/2012.
8. SMARTER 3 Conference (Versailles, FR) 09/2014.
9. 15<sup>th</sup> GDCh Solid-State Chemistry Conference (Berlin, DE) 09/2012.
10. 3<sup>rd</sup> International Symposium on Structure-Property-Relationships in Solid-State Materials (Stuttgart, DE) 06/2010.
11. DFT Meets Solid-State Chemistry / FPLO Workshop (Dresden, DE) 10/2009.
12. 12th EU Conference on Solid-State Chemistry (Münster, DE) 09/2009.
13. ChemKrist Workshop 2009 (Freiburg i.Br., DE) 09/2009.
14. 17<sup>th</sup> DGK's Annual Meeting (Hannover, DE) 03/2009.
15. 14<sup>th</sup> GDCh Solid-State Chemistry Conference (Bayreuth, DE) 09/2008.

#### Outreach activities, features, and press releases

1. *To come*: Talk and open table discussion with finishing year students (Chemistry, Physics, and Biology) at Lessing-Gymnasium Plauen (DE): Challenges and opportunities of studying natural sciences.
2. University of Cambridge, Chemistry at Cambridge Magazine "Chem@Chem" (editor Carmen Pryce) → □ Summer 2017 Issue 55 "As I see it..." pages 28-29.
3. BBC Radio 4 (Howard Mustoe) Comment on the use of Lithium and Lithium ion technologies (01/2017) with Dr. Elizabeth Castillo Martinez.
4. University of Cambridge → □ Instagram feature (09/2016) used in Department of Chemistry (@ChemCambridge) → □ Tweets (09/2016)
5. Cambridge Science Festival: → □ *Chemistry in Action* (University of Cambridge, Department of Chemistry, 03/2016)
6. Cambridge News → □ "Ask an Academic" Interview (02/03/2016); also featured on the webpage of the University of Cambridge, Department of Chemistry
7. Cambridge Science Festival Roadshows: *Experimenting with Electricity* ('Hardwick and Cambourne Primary School' and 'St Alban's Catholic Primary School', 03/2016)
8. Scientific Lunch Break: *Materials of the Future* (Highgate School London, 09/2015)
9. *duz Magazine* (Deutsche Universitätszeitung); Volume October 2008 (24/10/2008). → □ *Sächsische Brückenschläge*.