

# Dr. Alexandra Lex-Balducci

## Curriculum vitae

Laboratory of Organic and Macromolecular Chemistry (IOMC, Lehrstuhl II/Schubert)  
Friedrich-Schiller-Universität Jena  
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## Professional Experience

Since 07/2017	Coordinator of the Center for Energy and Environmental Chemistry Jena (CEEC Jena), Friedrich-Schiller-Universität Jena.
Since 07/2016	Senior researcher, working in the field of organic batteries in the group of Prof. Ulrich S. Schubert at the Laboratory of Organic and Macromolecular Chemistry (IOMC), Center for Energy and Environmental Chemistry Jena (CEEC Jena), Friedrich-Schiller-Universität Jena.
06/2015-05/2016	Senior researcher, responsible for project management in the group of Prof. Stefano Passerini at the Helmholtz Institute Ulm (HIU)/Karlsruhe Institute of Technology (KIT).
09/2009 – 05/2015	Scientific leader of the junior research group „Novel Lithium Gel Polymer Electrolytes Based on Newly Synthesized Homo- and Block Copolymers“ at the Institute of Physical Chemistry, MEET Battery Research Center, WWU Münster, Germany. 11/2011-12/2012 and 03/2014-05/2015 maternity leave.
04/2008 – 08/2009	Postdoctoral research fellow within the endowed professorship for „Applied Materials Sciences“ (Prof. Martin Winter) at the Institute of Physical Chemistry, WWU Münster, Germany
03/2005 – 03/2008	Research associate, (Prof. Stelzer) Institute of Chemistry and Technology of Organic Materials, TU Graz, Austria.

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**Education**

03/2008	PhD in chemistry (with distinction), Institute of Chemistry and Technology of Organic Materials, TU Graz, Austria, Prof. Franz Stelzer Title of the thesis "Modification of inorganic surfaces with photochemically and chemically reactive siloxane thin layers"
12/2004	Diploma in chemistry (with distinction), Institute of Chemistry and Technology of Organic Materials, TU Graz, Austria, Prof. Franz Stelzer Title of the thesis "Synthese und Charakterisierung photosensitiver Benzylthiocyanatverbindungen"
1998	School leaving examination (Matura, with distinction)

**Language skills**

German	Native speaker
English	Fluent (written and oral) (Cambridge Certificate in Advanced English – C1)
Italian	Good knowledge (written and oral)

**Awards and Fellowships**

2013	Award as inventor of the University of Technology Graz, Austria
2012	Fellowship for the mentoring programme "Erstklassig!" of the University of Münster, Germany
2009	Award as inventor of the University of Technology Graz, Austria
2007	Award as inventor of the University of Technology Graz, Austria
2007	Excellence Scholarship for PhD students of the University of Technology Graz, Austria
2007	Scholarship for students of the University of Technology Graz, Austria
2005	Scholarship for students of the University of Technology Graz, Austria
2004	Scholarship for "short-term scientific work abroad" of the University of Technology Graz, Austria
2003	Excellence Scholarship for students of the University of Technology Graz, Austria

### Third-party funded projects and experience in project management

09/2009 – 05/2015	<p>Scientific and administrative leader of the independent junior research group „Novel Lithium Gel Polymer Electrolytes Based on Newly Synthesized Homo- and Block Copolymers“ at the Institute of Physical Chemistry, Westfälische Wilhelms-University Münster, Germany</p> <p>Duration: 5 years 9 month</p> <p>Budget: 1.8 Mio €. (applicant)</p> <p>Funding source: Federal Ministry of Education and Research (BMBF)</p>
11/2010 – 01/2014	<p>Scientific and administrative leader of the project “Neuartige kostengünstige mikroporöse Separatoren für Lithium-Ionen-Batterien zur Verbesserung der Sicherheit bei Anwendung in Elektrofahrzeugen“</p> <p>Duration: 3 years</p> <p>Budget: ~ 1 Mio € (co-applicant)</p> <p>Funding source: European Union (50%), Ministry of Economic Affairs and Energy of the State of North Rhine-Westphalia (MWME) (40%), WWU Münster (10%).</p>
05/2010	<p>Co-applicant as coordinator of the project initiative “Funktionsmaterialien und Materialanalytik zu Lithium-Hochleistungsbatterien“ (2. phase) as well as for the sub-project “Entwicklung und Charakterisierung neuer Flüssigelektrolyte für Lithium-Hochleistungsbatterien“.</p> <p>Duration: 3 years</p> <p>Budget: ~400.000 € (sub-project, co-applicant)</p> <p>Funding source: DFG</p>
04/2008 – 02/2011	<p>Responsible for the coordination of the project initiative “Funktionsmaterialien und Materialanalytik zu Lithium-Hochleistungsbatterien“ (1. phase) and scientific leader of the sub-project “Neue Elektrolyte für höhere Leistung, Lebensdauer und Sicherheit von wiederaufladbaren Lithium-Batterien“.</p>

### Teaching activity

- Supervision of 6 PostDocs, 4 PhD students, 4 Diploma students, 1 master student, and 4 bachelor students (2007 – 2017)
- Lecture within the “Energy module“ for the master degree in chemistry (WS 2011/12) at the Westfälische Wilhelms-Universität Münster, Germany.
- Exercises for Physical Chemistry for Biologists at the Westfälische Wilhelms-Universität Münster, Germany (2009 and 2010)
- Laboratory assistant for the course of Physical Chemistry within the bachelor degree in chemistry at the Westfälische Wilhelms-Universität Münster, Germany (2009)
- Laboratory assistant for the course of Polymer Synthesis and Characterization at TU Graz (2007)