

Robert Kostecki, Ph.D.

Lawrence Berkeley National Laboratory
1 Cyclotron Road, Mail Stop 90R3026D
(510) 486-6002 / R_Kostecki@lbl.gov

Education and Training:

Institution	Major	Degree	Year
Warsaw Technical University (Poland)	Chemistry	B.S.	1983
Warsaw Technical University (Poland)	Chemistry	M.S.	1985
University of Geneva (Switzerland)	Applied Chemistry	Ph.D.	1994

Research and Professional Experience:

2014 – present	Senior Scientist , EETD, LBNL
2010 – 2015	Deputy Division Director for Research, EETD, LBNL
2009 – 2010	Staff Scientist and Acting Deputy Division Director , EETD, LBNL
2007 – 2009	Staff Scientist and Assistant Division Director , EETD, LBNL
2001 – 2007	Staff Scientist , EETD, LBNL
1998 – 2001	Scientist , EETD, LBNL
1995 – 1998	Postdoctoral Fellow , EETD, LBNL
1990 – 1994	Research Assistant , University of Geneva, Geneva, Switzerland
1985 – 1990	Assistant Lecturer , Institute of Physical Chemistry of the Polish Academy of Sciences

Publications:

1. Maurice Ayache, Simon Franz Lux, and **Robert Kostecki**, “IR Near-Field Study of the Solid Electrolyte Interphase on a Tin Electrode”, *J. Phys. Chem. Lett.*, 2015, 6, 1126 (2015) DOI: 10.1021/acs.jpcelett.5b00263
2. Angélique Jarry, Sébastien Gottis, Young-Sang Yu, Josep Roque-Rosell, Chunjoong Kim, Jordi Cabana, John Kerr,† and **Robert Kostecki**, “The Formation Mechanism of Fluorescent Metal Complexes at the $\text{Li}_x\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_{4-\delta}$ /Carbonate Ester Electrolyte Interface”, *J. Am. Chem. Soc.*, 2015 DOI: 10.1021/ja5116698
3. Wong, Dominica; Vitale, Alessandra; Devaux, Didier; Taylor, Austria; Pandya, Ashish; Hallinan, Daniel; Thelen, Jacob; Mecham, Sue; Lux, Simon; Lapidés, Alexander; Resnick, Paul; Meyer, Thomas; **Kostecki, Robert**; Balsara, Nitash; DeSimone, Joseph, "Phase Behavior and Electrochemical Characterization of Blends of Perfluoropolyether, Poly(ethylene glycol) and a Lithium Salt", *Chemistry of Materials*, 2015, 27 (2), 597; DOI: 10.1021/cm504228a
4. Simon Franz Lux, Elad Pollak, Ulrike Boesenberg, Thomas Richardson and **Robert Kostecki**, “Electrochemical reactivity of pyrolytic carbon thin-film electrodes in organic carbonate electrolytes”, *Electrochemistry Communications*, 46, 2014, 5; DOI:10.1016/j.elecom.2014.05.030
5. Lydia Terborg, Simon F. Lux, Michelle J. Lin, **Robert Kostecki**, Frantisek Svec, “Porous polymer monoliths with incorporated single layer grapheme”, *Scientia Chromatographica*, 2014; 6(1), 27

6. Amrose, S., A. Gadgil, V. Srinivasan, K. Kowolik, M. Muller, J. Huang and **R. Kostecki**, “Arsenic removal from groundwater using iron electrocoagulation: Effect of charge dosage rate”, *Journal of Environmental Science and Health, Part A* Vol. 48, No 9, 1019
7. Xiaobo Chen, Can Li, Michaël Grätzel, **Robert Kostecki**, Samuel S. Mao, “Nanomaterials for Renewable Energy Production and Storage”, *Chem. Soc. Rev.*, 2012,41, 7909
DOI: 10.1039/C2CS35230C, Critical Review
8. Elad Pollak, Bai-Song Geng, Ki-Joon Jeon, Ivan T. Lucas, Thomas J. Richardson, Feng Wang, and **Robert Kostecki**, “The Interaction of Li⁺ with Single-Layer and Few Layers Graphene”, *Nanoletters*, 10 (2010) 10, 3386
9. Kristin Persson, Vijay A. Sethuraman Laurence J. Hardwick, Yoyo Hinuma, Ying Shirley Meng, Anton van der Ven, Venkat Srinivasan, **Robert Kostecki**, and Gerbrand Ceder, “Lithium Diffusion in Graphitic Carbon: Supporting Information” *Journal of Physical Chemistry Letters*, 1 (2010) 1176
10. Elad Pollak, Ivan T. Lucas, **Robert Kostecki**, “A study of lithium transport in aluminum membranes”, *Electrochemistry Communications* 12 (2010) 198–201

Synergistic Activities:

1. Symposium Co-Organizer of multiple symposia at Electrochemical Society biannual meetings, International Society of Electrochemistry (ISE); 2012 and 2014 Gordon Conferences on Batteries
2. Proposal Reviewer for: DOE-BES, DEE EERE, DOE SBIR Program, LBNL LDRD Program, NSERC, NSF
3. Refereed manuscripts for >15 journals, including Science, Nature, Nano Letters, Advanced Materials, and Journal of the American Chemistry Society, Journal of physical Chemistry, Electrochemistry Communications etc.
4. Scientific Outreach
Member of the Electrochemical Society, Chair of the Battery Division of the Electrochemical Society
Member of the International Society of Electrochemistry, Chair-Elect of the Electrochemical Energy Conversion and Storage Division of the International Society of Electrochemistry, Member of the International Advisory Board of the Journal of Electrochemical Science and Technology, Gordon Research Conferences Council Member, Member of the Materials Research Society, Member of the American Chemical Society.
5. Selected Awards & Honors
2012 Prince Sultan Bin Abdulaziz International Prize for Water. 5th Award, the Creativity Prize
1999, 2010 LBNL SPOT Recognition Award, 2008 US Environmental Protection Agency P³ Award
2003 NATO - CARWC Award for significant Contributions to the Science of Carbon for Electrochemical Power Sources,
2002 Advanced Technology Program Award for the best individual achievement
2002 Advanced Technology Program Award for the best scientific paper
2000 LBNL Outstanding Performance Award