Steve Greenbaum

PUBLICATIONS


52. "Electrochemical Insertion of Lithium into the High \(T_c\) Superconductor \(\text{Bi}_2\text{CaSr}_2\text{Cu}_2\text{O}_{8+x}\)", with N. Fleischer, J. Manassen, P. Lee, Y. Gao and P. Coppens, Physica C 190, 367 (1992).


60. "\(^7\text{Li}\) NMR and Ionic Conductivity Studies of Gel Electrolytes Based on Poly(acrylonitrile)", with F. Croce, S.D. Brown, S. Slane and M. Salomon, Chemistry of Materials 5, 1268 (1993).


129. “New Generation Of Ordered Polymer Electrolytes For Lithium Batteries”, with D. Golodnitsky, E.


“Polymeric δ-MgCl$_2$ nanoribbons”, with Michele Vittadello, Philip E. Stallworth, Faisal M. Alamgir,


155. “Interpreting the structural and electrochemical complexity of 0.5Li2MnO3●0.5LiMO (M=Mn0.5-xNi0.5-xCo2x, 0 ≤ x ≤ 0.5)” with S.–H. Kang, P. Kempgens, J. Kropf, K. Amine, and M. M. Thackeray, *Journal of Materials Chemistry*, **2007**, 17, 2069–2077


“Ferromagnetic resonance studies of surface and bulk spin-wave modes in a CoFe/PtMn/CoFe multilayer film”, with Cheng Wu, Amish N. Khalfan, Carl Pettiford, Nian X. Sun, and Yuhang Ren, Journal of Applied Physics, 103, 07B525 (2008).


207. “Structural Characterization and Li dynamics in new Li₃PS₄ ceramic ion conductor by solid-state and pulsed-field gradient NMR”, with Mallory Gobet, Chengdu Liang, and Gayatri Sahu, Chemistry of Materials, DOI: 10.1021/cm5012058. 26(11):3558-3564 (2014).


216. NMR Studies of Solvent free Ceramic Composite Polymer Electrolytes - a Brief Review, with Marc Berman, Membranes, 2015, 5, 915-923; doi:10.3390/membranes5040915


251. Correlating Li⁺-solvation structure and its electrochemical reaction kinetics with sulfur in sub-nano confinement, Fu, Chengyin; Xu, Lihua; Aquino, Fredy; von Wald Cresce, Arthur; Gobet, Mallory; Greenbaum, Steven; Xu, Kang; Wong, Bryan; Guo, Juchen, Journal of Physical Chemistry Letters, 2018, 9, pp 1739–174


"An Enhanced Lithium Oxygen Battery using a Glyme Electrolyte and Carbon Nanotubes", Carbone, Lorenzo; Moro, Paolo Tomislav; Gobet, Mallory; Munoz, Stephen; Devany, Matthew; Greenbaum, Steven; Hassoun, Jusef, ACS Applied Materials and Interfaces, 2018, 10 (19), pp 16367–16375 DOI: 10.1021/acsami.7b19544


"Polymer Capacitor Dielectrics for High Temperature Applications", with Janet Ho, ACS Applied Materials & Interfaces, 2018, 10 (35), pp 29189–29218 DOI: 10.1021/acsami.8b07705.

"Fundamental limitations of ionic conductivity in polymerized ionic liquids", Stacy, Eric; Gainaru, Catalin; Gobet, Mallory; Wojnarowska, Zaneta; Bocharova, Vera; Greenbaum, Steven; Sokolov, Alexei, Macromolecules, Macromolecules, 2018, 51 (21), pp 8637–8645 DOI: 10.1021/acs.macromol.8b01221

“Improved Anisotropic Thermoelectric Behavior of PEDOT:PSS via Magnetophoresis”, Vera A. Zarubin, Tai-De Li, Sunita Humagain, Haojie Ji, Kevin G. Yager, Steven G. Greenbaum, and Luat T. Vuong, ACS Omega 2018 3 (10), 12554-12561 DOI: 10.1021/acsomega.8b00999


“Review of Recent Nuclear Magnetic Resonance Studies of Ion Transport in Polymer Electrolytes”, Stephen Munoz and Steven Greenbaum, Membranes, 2018, 8, 120; doi:10.3390/membranes8040120


Alkyl chain length effects of hydroxyl-functionalized imidazolium ionic liquids in the ionothermal synthesis of LiFePO4, Paul J. Sideris, Yueli Chen, Mallory Gobet & Steve G. Greenbaum, Phosphorus, Sulfur, and Silicon and the Related Elements, doi.org/10.1080/10426507.2018.1528260

“Atomistic-scale simulations of the chemical dynamics of Kapton Polyimide damaged by electron beam
