Yating Yuan

First name: Yating
Last name:Yuan
Gender: male
Date of birth: November 09, 1991

Email: yyuan15@utk.edu

Phone: 865-236-6247

RESEARCH INTERESTS

My research interests include molten salts electrochemistry, nano materials, rare earth metal electrodeposition.

EDUCATION AND EXPERIENCE

From June 2019 to now Post-doc in University of Tennessee, focus on molten salts electrochemistry and electrodeposition of rare earth metals in ionic liquids.

From September 2012 to June 2019 PhD candidate in Wuhan University, focus on electrochemical reduction of solid oxides and sulfides nanostructuring silicon in molten chlorides.

From June 2008 to September 2012 Undergraduate student in Wuhan Textile University.

PUBLICATIONS

- **Y Yuan**, T Wang, H Chen, SM Mahurin, H Luo, GM Veith, Z Yang, S Dai Ambient temperature graphitization based on mechanochemical synthesis. **Angewandte Chemie International Edition.** ***2020***,59, 21935-21939.
- **Y. Yuan**, W. Xiao, Z. Wang, D. J. Fray, X. Jin, Efficient Nanostructuring of Silicon by Electrochemical Alloying/Dealloying in Molten Salts for Improved Lithium Storage. **Angewandte Chemie International Edition.** ***2018***, 57, 15743-15748.
- **Y. Yuan**, S. Jan, Z. Wang, X. Jin, A simple synthesis of nanoporous Sb/C with high Sb content and dispersity as an advanced anode for sodium ion batteries. **Journal of Materials Chemistry A.** ***2018***, 6, 5555-5559.
- **Y. Yuan**, W. Li, H. Chen, Z. Wang, X. Jin, G. Z. Chen, Electrolysis of metal oxides in $MgCl_2$ based molten salts with an inert graphite anode. **Faraday discussions**. ***2016***, 190, 85-96.
- W. Li, **Y. Yuan**, X. Jin, H. Chen, G. Z. Chen, Environmental and energy gains from using molten magnesium–sodium–potassium chlorides for electro-metallisation of refractory metal oxides. **Progress in Natural Science: Materials International.** ***2015***, 25, 650-653.
- M. Tan, R. He, **Y. Yuan**, Z. Wang, X. Jin, Electrochemical sulfur removal from chalcopyrite in molten NaCl-KCl. **Electrochimica Acta**. ***2016***, 213, 148-154.