WEI TONG, PH.D.

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a. Education

Rutgers, The State University of New Jersey Ph. D. in in Materials Sci. & Eng. 2010
Thesis Title: Novel High Volumetric Energy Density Nanostructured Electrode Materials for Biomedical Applications

Wuhan University of Technology, China M. S. in Materials Sci. & Eng. 2004
Thesis Title: Study on composition, structure and properties of Ge-S based infrared optical fiber

Wuhan University of Technology, China B. S. in in Materials Sci. & Eng. 2001

b. Research and Professional Experience

2014 – Present Staff Scientist, Environmental Energy Technologies Division, LBNL, Berkeley
2010 – 2014 Scientist, Chemistry, Wildcat Discovery Technologies, Inc., San Diego

c. Publications (prior to LBNL)

1. **W. Tong**, G. G. Amatucci, "Mechanochemical Synthesis of Metallic Ag_2F and Application to $Ag_3MoO_3F_3$ based Nanocomposites for Lithium Batteries," *Journal of Power Sources*, 196, 1449-1454 (2011).
2. **W. Tong**, W.-S. Yoon and G. G. Amatucci, "Electrochemically Active Silver Molybdenum Oxyfluoride Perovskite: Synthesis and In-situ Electrochemical Characterization," *Journal of Power Sources,* 195, 6831-6838 (2010).
3. **W. Tong**, G. G. Amatucci, "Synthesis, Structure, and Electrochemistry of Silver Niobium Oxyfluorides for Lithium Batteries," *Electrochemical and Solid-State Letters*, 12 (11), A219-A224 (2009).
4. **W. Tong**, W.-S. Yoon, N. M. Hagh and G. G. Amatucci, "A Novel Silver Molybdenum Oxyfluoride Perovskite as a Cathode Material for Lithium Batteries," *Chemistry of Materials,* 21 (10), 2139–2148 (2009).
5. **W. Tong**, W.-S. Yoon and G. G. Amatucci, "Structure and Electrochemistry of Novel Silver Metal Oxyfluoride Perovskite: Cathode Materials for High Volumetric Energy Storage," *Mobile Energy, Mater. Res. Soc. Symp. Proc.,* 1127, T03-04 (2009).
6. **W. Tong**, W.-S. Yoon, F. Cosandey and G. G. Amatucci, "Silver Metal Oxyfluoride Perovskite for High Volumetric Energy Storage," *Electrochemical Society Transactions,* 16 (50), 107-112 (2009).

7. **W. Tong**, G. G. Amatucci, "Synthesis and Electrochemical Properties of a Novel Silver Molybdenum Oxyfluoride Perovskite," *Electrochemical Society Transactions,* 11 (31), 19-25 (2008).
8. H.-Z. Tao, X.-J. Zhao, **W. Tong**, S. Mao, "Micro-structural Study of the GeS_2–In_2S_3–KCl Glassy System by Raman Scattering", *Spectrochimica Acta Part A,* 64, 1039–1045 (2006).
9. H.-Z. Tao, S. Mao, **W. Tong**, X.-J. Zhao, "Formation and Properties of the GeS_2–In_2S_3–KCl New Chalcohalide Glassy System", *Materials Letters,* 60, 741–745 (2006).
10. H.-Z. Tao, X.-J. Zhao, C.-B. Jing, **W. Tong**, "Raman Spectra Study on the GeS_2-Ga_2S_3-KCl system glasses," *Spectroscopy and Spectral Analysis*, 25, 44-47 (2005).

d. Patents (prior to LBNL)

1. G. G. Amatucci, **W. Tong**, "Silver Oxyfluoride Electrode Compositions and Methods," US8673495 B2.
2. S. Kaye, C. O'Neill, **W. Tong**, "Electrolyte Materials for Batteries and Methods for Use," Pending, US13/612,798.
3. M. Caldwell, S. Kaye, C. O'Neill, **W. Tong**, "Cathode for a Battery," Pending, US13/612,800.
4. V. Bhat, M. Caldwell, B. Li, S. Kaye, W. Tong, "High Energy Cathode Material," Pending, US14/176,704.
5. M. Caldwell, S. Kaye, D. Keogh, C. O'Neill, **W. Tong**, "Cathode for a Battery," Pending, US13/831,924.
6. M. Caldwell, S. Kaye, D. Keogh, **W. Tong**, C. Zheng, "Materials Prepared by Metal Extraction," Pending, US13/831,933.
7. S. Kaye, D. Keogh, C. O'Neill, **W. Tong**, "High Energy Materials for a Battery and Methods for Making and Use," Pending, US14/220,047.
8. B. Li, **W. Tong**, J.-H. Yang, "Materials Prepared by Metal Extraction," Pending, US14/253,764.
9. **W. Tong**, B. Li, J.-H. Yang, "Voltage Fade of Lithium Rich Layered Oxides," Pending, US14/308,690.
10. **W. Tong**, B. Li, J.-H. Yang, "Lithium Rich Layered Oxides," 2014.
11. B. Li, **W. Tong**, J.-H. Yang, "Olivine Cathode Materials," 2014.

e. Synergistic Activities

Regular Reviewer for Energy and Environmental Science, Journal of Materials Chemistry, Journal of Power Sources, CrystEngComm, Dalton Transactions, New Journal of Chemistry, Journal of The Electrochemical Society, Materials Chemistry & Physics, Chemical Physics Letters, Journal of the American Ceramics Society, Industrial & Engineering Chemistry Research, Electrochemical and Solid-State Letters, Materials Science and Engineering: B, Journal of Applied Electrochemistry

f. Professional Memberships

The Electrochemical Society; Material Research Society; American Chemical Society