HONGBO CONG

EDUCATION

PH.D. IN MATERIALS SCIENCE AND ENGINEERING, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA, USA (2009)
M.S. IN MATERIALS SCIENCE & ENGINEERING, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA, USA (2004)
B.E. IN MATERIALS SCIENCE & ENGINEERING, TSINGHUA UNIVERSITY, BEIJING, CHINA (2001)

WORK EXPERIENCE

UNIVERSITY OF AKRON, AKRON, OH, USA (SINCE 2013)
DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING

DET NORSKE VERITAS (U.S.A.), INC. DUBLIN, OH, USA (2009-2013)
MATERIALS AND CORROSION TECHNOLOGY CENTER

REFEREED JOURNAL ARTICLES

- X. Li, **H. Cong**, F. Gui, C. S. Brossia and G. S. Frankel, "Development of Liquid-Air-Interface Corrosion of Steel in Nitrate Solutions," Corrosion (Houston), Vol. 70, No. 3, 230-246, 2014.
- X. Li, F. Gui, **H. Cong**, C. S. Brossia and G. S. Frankel, "Evaluation of Nitrate and Nitrite Reduction Kinetics Related to Liquid-Air-Interface Corrosion," Electrochimica Acta, 117, 299-309, 2014.
- X. Li, F. Gui, **H.Cong**, C. S. Brossia and G. S. Frankel, "Examination of Mechanisms for Liquid-Air-Interface Corrosion of Steel in High Level Radioactive Waste Simulants," Journal of The Electrochemical Society, Vol. 160, No. 11, C521-C530, 2013.
- **H. Cong** and J. R. Scully, "Effects of Aluminum Solids on the Under Deposit Corrosion of Copper in Synthetic Potable Water: the Arguments for and Against a Semi-permeable Membrane," Journal of The Electrochemical Society, Vol. 160, No. 9, C403-C413, 2013
- H. Ha, C. Taxén, **H. Cong** and J.R. Scully, "Effect of Applied Potentials on Pit Propagation in Copper as Function of Water Chemistry," Journal of The Electrochemical Society, Vol. 159, No. 2, C59-C73, 2012
- **H. Cong** and J. R. Scully, "Effect of Chlorine Concentration on Natural Pitting of Copper as a Function of Water Chemistry," Journal of The Electrochemical Society, Vol. 157, No. 5, C200-C211, 2010
- **H. Cong** and J. R. Scully, "Use of Coupled Multielectrode Arrays to Elucidate the pH Dependence of Copper Pitting in Potable Water," Journal of The Electrochemical Society, Vol. 157, No. 1, C36-C46, 2010
- **H. Cong**, H. T. Michels and J. R. Scully, "Passivity and Pit Stability Behavior of Copper as a Function of Selected Water Chemistry Variables," Journal of The Electrochemical Society, Vol. 156, No. 1, C16-C27, 2009
- **H. Cong**, F. Bocher, N. D. Budiansky, M. F. Hurley and J. R. Scully, "Use of Couple Multi-Electrode Arrays to Advance the Understanding of Selected Corrosion Phenomena," Journal of ASTM International, Vol. 4, No. 10, 2007
  *This paper was also selected to be published in *Journal of ASTM International Selected Technical Papers STP 1506- Advances in Electrochemical Techniques for Corrosion Monitoring and Measurement*, Sankara Papavinasam, and Neal S. Berke et al., editors. ASTM International, West Conshohocken, PA, 2009
- N. D. Budiansky, F. Bocher, **H. Cong**, M. F. Hurley and J. R. Scully, "Use of Coupled Multi-Electrode Arrays to Advance the Understanding of Selected Corrosion Phenomena," Corrosion (Houston), Vol. 63, No. 6, p. 537-554, 2007

HONORS AND AWARDS

- Morris Cohen Graduate Student Award of the Corrosion Division, the Electrochemical Society (2011)
- NACE Foundation Book Scholarship Award (2007)
- Mars Fontana Award for Corrosion Engineering, NACE (1st Place – 2007)
- Mars Fontana Award for Corrosion Engineering, NACE (1st Place – 2006)

PROFESSIONAL AFFILIATIONS

- NACE (National Association of Corrosion Engineers) International
- ECS- The Electrochemical Society
- ASTM (American Society for Testing and Materials) International
- ISE- International Society of Electrochemistry