LIST OF POSTERS

Fuel Cells/Hydrogen Production/Energy Conversion, FC

- 1. <u>Azadeh Rismanchian</u> and Steven S. C. Chuang (University of Akron) Comparative Studies of a Ni-based Anode Supported SOFC with H2, CH4, and CH4/CO2 Feeds
- 2. <u>Ali Modjtahedi</u> and Steven S. C. Chuang (University of Akron) Investigation of Diffusion Limitation in CH4/CO2-Solid Oxide Fuel Cell
- 3. <u>Suzanne E. Witt</u>, Travis A. White, Zhanyong Li, Kim R. Dunbar, and Claudia Turro (Ohio State University) *Formamidinate Bridged Dirhodium Complexes for Electrocatalytic Proton Reduction*
- 4. <u>Robert Northcut and</u> Vishnu-Baba Sundaresan (Ohio State University) *Enhancing Charge Storage and Cyclability of Conducting Polymer Membrane for Energy Storage*
- Deepika Singh, Juan Tian, <u>Kuldeep Mamtani</u> and Umit S. Ozkan (Ohio State University) A Comparison of Non-Noble Metal Cathode Catalysts for Proton Exchange membrane (PEM) Fuel Cells
- 6. <u>Adriej J. J. Jebaraj</u>, and Daniel A. Scherson (CWRU) *Impurity Effects* on the Oxygen Reduction Reaction(ORR)
- 7. <u>Eric Coleman</u> and Anne Co (Ohio State University) *Galvanic* Displacement of Pt on Nanoporous Copper: An Alternative Synthetic Route for Obtaining Robust and Reliable Oxygen Reduction Activity
- 8. <u>Chao Xu</u>, Anne Co and Joseph Heremans (Ohio State University) Evaluating a New Approach for Waste Heat Recovery Using Electrochemical Thermoelectric Generators

LIST OF POSTERS

Electrochemistry and Advanced Materials/Devices, EAM

- 9. <u>Aliackbar Yazdani</u>, Benjamin Sheets, Santosh Vijapur, Dan Wang and Gerardine Botte (Ohio University) *Synthesis of Graphene from Pittsburgh Coal via CVD*
- Bhagya Gunasekera, <u>Sarah Wojciechowski</u> and Mekki Bayachou (Cleveland State University) *Enzyme-Based Nitric Oxide Releasing Thin Films and Fibers*
- 11. <u>Haitham Kalil</u> and Mekki Bayachou (Cleveland State University) Metalloporphyrin-Modified Graphene as Sensing Interfaces for Peroxynitrite
- 12. <u>Shirmir D. Branch</u>, William R. Heineman, Jack Lynch, Samuel A. Bryan and Job M. Bello (University of Cincinnati) *Thin-Film Micro-Fabricated Sensor Characterization and Optimization*

Batteries and Energy Storage, B

- 13. <u>Miao Wang</u> and Xinran Xiao (Michigan State University) *Li Diffusivity, Interface Property and Stress and Deformation of Si Anode*
- <u>Bahar Moradi Ghadi</u> and Gerardine G. Botte (Ohio University) Carbon Coated Fe₃O₄ Nanoparticles as Solid Electrolyte Interface for Improving Graphite Anodes in Lithium Ion Batteries
- Jose L. Lorie Lopez, Anthony Stranges, Philip J. Grandinetti and Anne Co (Ohio State University) *Towards in-situ Solid State NMR for Charactering Battery Electrodes*
- <u>Danny X. Liu</u>, Jinghui Wang, Marcello Canova, Lei Raymond Cao and Anne Co (Ohio State University) *In-situ Characterization of Lithium Transport in Li_xSn_y Anode with Neutron*

LIST OF POSTERS

Electroanalytical Techniques, ET

- 17. Jing Xu, Nicholas Georgescu and Daniel Scherson (CWRU) *In Situ UV-Vis Reflectance Spectroscopy Study of Bromide Oxidation on a Platinum Rotating Disk Electrode in Aqueous Solutions*
- <u>Daoli Zhao</u>, Xuefei Guo, Tingting Wang, Noe Alvarez, Vesselin N. Shanov and William R. Heineman (University of Cincinnati) Simultaneous Detection of Heavy Metals by Anodic Stripping Voltammetry Using Carbon Nanotube Thread
- 19. <u>Charles K. Dotse</u> and Shouzhong Zou (Miami University) *In-situ* Surface-Enhanced Raman Spectroscopic Studies of Formic Acid Electrooxidation on Pd and Pd/Pt Thin Films Deposited on Silica Core-Gold Shell (SiO₂ @Au) Nanoparticle Arrays
- 20. <u>Benjamin Garrett</u>, Judy Gallucci, Christopher Hadad and Yiying Wu (Ohio State University) *Synthetically Convenient FeFe-Hydrogenase Mimics Bearing Carboxylic Acids and Investigation of Their Electrochemical Degradation Pathway*
- 21. <u>Kunal Kumar</u>, Teng Shi, Fei Yu, Howard E. Jackson, Leigh M. Smith, Marc Caha and, Vikram K. Kuppa (University of Cincinnati) *Pisosecond Time-Resolved Photoluminescence of Poly(3-hexylthiophene)/Pristine Graphene Bulk Heterojunction Films*
- 22. <u>Tiyash Bos and</u> Mekki Bayachou (Cleveland State University) Ruthenium-Modified Sensitive NO Sensors: Quantifying Nitric Oxide in the Pathobiology of Cystic Fibrosis

LIST OF POSTERS

Electrosynthesis, Corrosion and Electrochemical Processes, EC

- 23. <u>Joshua Billy</u> and Anne Co (Ohio State University) *Carbon Dioxide Reduction on Nanoporous Copper/M Catalysts*
- 24. <u>Beenish Saba</u>, Gauri and Grime Ann D Christy (Ohio State University) Electrochemical Bioreactors for Simultaneous Desalination and Power Production
- 25. <u>Hamed Bateni</u>, Luis A. Diaz Aldana and Gerardine G. Botte (Ohio University) *Ammonia Synthesis Using Molybdenum-Based Catalyst*
- 26. <u>Romana Jarosova</u> and Greg M. Swain (Michigan State University) Heterogeneous Electron-Transfer Rate Constants for Inorganic Redox Systems at Carbon Electrodes in Aqueous Solutions and Room Temperature Ionic Liquids
- 27. <u>Sara N. Grieshop</u>, A. J. Curran, and R. G. Buchheit (Ohio State University) *Comparison of the Corrosion Behavior of High Strength Aluminum Alloys after Exposure to ASTM B117 Environment*
- 28. <u>Katherine Muhlenkamp</u>, Chibuokem Amuneke-Nze and Anne Co Utilizing Surface Enhanced Raman Scattering to Investigate the Electroreduction Pathway of Carbon Dioxide
- 29. <u>Ali Estejab</u> and Gerardine G. Botte *Mathematical Model of a Parallel Plate Ammonia Electrolyzer*