



Publications Referencing Scribner 840 Fuel Cell Test System

1. Engebretsen, E., Robinson, J. B., Obeisun, O., Mason, T., Finegan, D., Hinds, G., Shearing, P. R., and Brett, D. J. L. (2016). "Electro-thermal impedance spectroscopy applied to an open-cathode polymer electrolyte fuel cell" *Journal of Power Sources*, **302**, 210-214.
2. Wu, Y., Cho, J. I. S., Whiteley, M., Rasha, L., Neville, T. P., Ziesche, R., Xu, R., Owen, R., Kulkarni, N., Hack, J., Maier, M., Kardjilov, N., Markötter, H., Manke, I., Wang, F. R., Shearing, P. R., and Brett, D. J. L. "Characterization of water management in metal foam flow-field based polymer electrolyte fuel cells using in-operando neutron radiography." *International Journal of Hydrogen Energy*, **45**, 2195-2205 (2020)
3. Obeisun, O. A., Meyer, Q., Engebretsen, E., Finegan, D. P., Robinson, J. B., Hinds, G., Shearing, P. R., and Brett, D. J. L. "Study of Water Accumulation Dynamics in the Channels of an Open-Cathode Fuel Cell Through Electro-Thermal Characterisation and Droplet Visualisation." *International Journal of Hydrogen Energy*, **40**, 16786-16796 (2015)
4. Obeisun, O. A., Meyer, Q., Robinson, J., Gibbs, C. W., Kucernak, A. R., Shearing, P. R., and Brett, D. J. L. "Development of Open-Cathode Polymer Electrolyte Fuel Cells Using Printed Circuit Board Flow-Feld Plates: Flow Geometry Characterisation." *International Journal of Hydrogen Energy*, **39**(32), 18326-18336 (2014)
5. Rasha, L., Cho, J. I. S., Neville, T. P., Corredera, A., Shearing, P. R., and Brett, D. J. L. "Water distribution mapping in polymer electrolyte fuel cells using lock-in thermography" *Journal of Power Sources*, **440**, 227160 (2019)
6. Obeisun, O. A., Meyer, Q., Robinson, J., Gibbs, C. W., Kucernak, A. R., Shearing, P., and Brett, D. J. L. "Advanced Diagnostics Applied to a Self-Breathing Fuel Cell" *ECS Transactions*, **61**(27), 249-258 (2014)
7. Redmond, E. L., Hansen, K. U., and Berg, D. W. "Development of Water Vapor Transport Resistance Protocol and Analysis." *ECS Transactions*, **92**(8), 445-454 (2019)
8. Huang, X., Rigdon, W. A., Billings, K. J., and Valdez, T. I., "Fabrication and Optimization of Membrane Electrode Assembly with Support-Less Platinum Catalysts for Space Applications." *ECS Transactions*, **50**(2), 753-763 (2012)



9. Huang, X., Rigdon, W. A., Neutzler, J., Larrabee, D., and Sightler, J., "High Performance Membrane Electrode Assembly Fabricated by Ultrasonic Spray Technique" *ECS Transactions*, **41**(1), 901-907 (2011)
10. Norris, B. C., Li, W., Lee, E., Manthiram, A., and Bielawski, C. W. "Click'-functionalization of poly(sulfone)s and a study of their utilities as proton conductive membranes in direct methanol fuel cells." *Polymer*, **51**, 5352-5358 (2010)
11. Park, B., and Cairns, E. J. "Electrochemical performance of TiO₂ and NiO as fuel cell electrode additives." *Electrochemistry Communications*, **13**, 75-77 (2010)
12. Rigdon, W. A., Huang, X., Hussey, D. S., and Jacobson, D. L. "Proton Conductivity of Polymer Electrolyte Membranes during Transient Hydration and Dehydration Cycles." *ECS Transactions*, **41**(1), 1381-1392 (2011)
13. Rigdon, W. A., Larrabee, D. D. D., and Huang, X. "Composite Carbon Nanotube and Titania Catalyst Supports for Enhanced Activity and Durability." *ECS Transactions*, **58**(1), 1809-1821 (2013)
14. Sightler, J., McPherson, E., Rigdon, W., and Huang, X. "Application of Electrospinning Technique in the Fabrication of Catalyst Layer of Membrane Electrode Assemblies." *ECS Transactions*, **50**(2), 1445-1451 (2012)
15. Reid, S. K. "Water Transport in Polymer Electrolyte Fuel Cells: An Exploration of Net Water Drag in Real Time" Masters of Science, University of Tennessee-Knoxville, Knoxville, Tennessee, USA (2013).