

# **Metal-Supported Cell**

Symmetric backbone of stainless steel and ScSZ electrolyte/electrodes Pr<sub>6</sub>O<sub>11</sub> and SDC-Ni infiltrated into electrodes



Funding for this work was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the Advanced Research Projects Agency - Energy (ARPA-E), U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the Advanced Research Projects Agency - Energy (ARPA-E), U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy Under contract no. DE-AC02-05CH11231The information, data, or work presented herein was funded in part by the U.S. Department of Energy U.S. Department O.S. Department of Energy U.S. Department of Energy U.S. Dep of Energy under work authorization number 13/CJ000/04/03. This work was funded in part by the U.S. Department of Energy under contract no. DE-AC02-05CH11231. We thank Nissan Motor Company Ltd. and Nissan Technical Center North America for providing cost share and helpful discussion. The authors thank Adam Schwartzberg for helpful discussion. Work at the Molecular Foundry was supported by the Office of Science, Office of Basic Energy Sciences, of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231. This work is supported by the U.S. Department of Energy (USDOE), Office of Energy (EERE), Fuel Cell Technologies Office (FCTO) under contract no. DE-EE0008080.

# **Overview of Metal-Supported Solid Oxide Fuel Cells and Electrolyzers**

# Emir Dogdibegovic, Ruofan Wang, Grace Lau, Michael Tucker

BUT: low proton conductivity





Contact: mctucker@lbl.gov

### **Fuel Cell Performance**





### **Direct-Flame Camping/Emergency Product**

