Materials & Chemicals

OXYGEN ION TRANSPORT MATERIALS AND RELATED DEVICES

WARF: P210166WO01

Inventors: Dane Morgan, Jun Meng, Ryan Jacobs

The Invention

The inventors have identified new interstitial oxygen diffusers. Included in this discovery is the identification of classes of materials that enable substitution of elements to yield related materials, which can be designed/tuned/selected based on the end application.

Applications

- Solid oxide fuel cells (SOFCs)
- Super capacitors
- Gas sensors
- oxygen separation membranes
- metal-air batteries

Key Benefits

- Rapid oxygen transfer at room temperature
- Improved speed and efficiency

Additional Information

For More Information About the Inventors

- Dane Morgan

Tech Fields

- Clean Technology : Energy storage, delivery & resource efficiencies
- Materials & Chemicals : Other materials & chemicals

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867