



## TECHNOLOGY

# Technique for Improving the “Supercapacitance” of Ruthenium Oxide Based Capacitors

## OVERVIEW

Researchers at the University of Maryland in Association with Department of Defense have created a method for fabricating an ultra-thin RuO double-layer capacitor. The design yields an electromechanical capacitor of arbitrary geometry to meet energy storage specifications for low-power ad hoc distributed networks.

The measured capacitance exhibits 85-103 times the capacitance expected for planar structures. The discharge from .045V to near ground would be consistent with a capacitance of 0.23mF. This is observed from charging volts of .075V and 1.1V. The inventors believe stacked devices can be prepared providing about 1F in a square centimeter of 1 mm thickness.

For additional information please contact the office of Technology Commercialization 301 405 3947

## CONTACT INFO

UM Ventures  
0134 Lee Building  
7809 Regents Drive  
College Park, MD 20742  
Email: [umdtechtransfer@umd.edu](mailto:umdtechtransfer@umd.edu)  
Phone: (301) 405-3947 | Fax: (301) 314-9502

## Additional Information

### INSTITUTION

University of Maryland, College Park

### PATENT STATUS

Patent(s) pending

### LICENSE STATUS

Contact OTC for licensing information

### CATEGORIES

- Microelectronics

### EXTERNAL RESOURCES

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