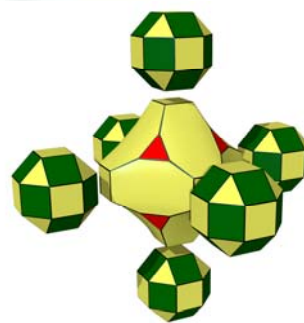




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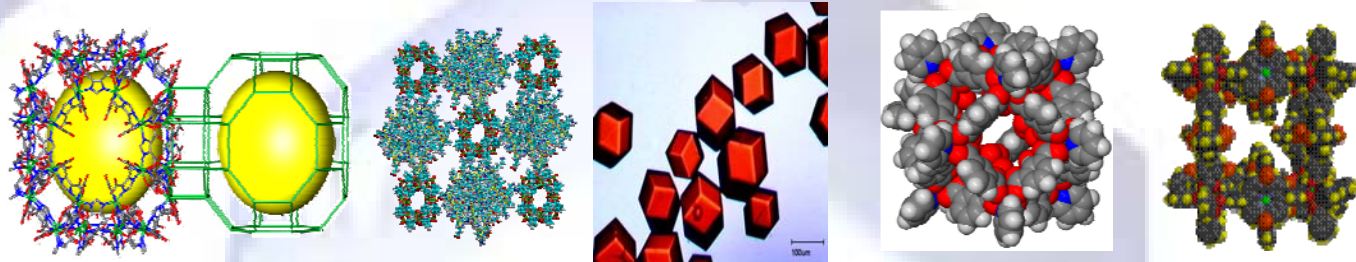


## **USF-SMMARTT**

### **Interdisciplinary Research Center**

#### **Smart Metal-organic Materials Advanced Research and Technology Transfer**

**MISSION:** "To discover and develop new 'smart' metal-organic material (MOM) platforms for energy sustainability and enhancement of human health"



*Metal-organic materials (MOMs) represent an emerging class of materials that are prepared using the principles of self-assembly and are therefore diverse in terms of chemical composition, facile to prepare and fine tunable in terms of scale and properties. They have captured the imagination of researchers around the world and are uniquely suited to provide solutions to many problems that face our society. The University of South Florida, Department of Chemistry, is already recognized internationally as a leader in the design, development and application of MOMs. With this in mind the Department has initiated a new interdisciplinary research center, USF-SMMARTT, which aims to exploit its research excellence in MOMs by integrating with existing strengths in optical spectroscopy, advanced computational chemistry, biochemistry/biophysics and synthetic organic chemistry. This interdisciplinary center will develop MOMs as platforms for: 1) gas storage/delivery materials; 2) photovoltaics; 3) biological and chemical weapons sensing/decontamination systems; 4) biomolecular sensing and drug delivery systems. Research efforts in these areas will provide critical new materials platforms (MOM-based materials) through which a wide variety of applications can be developed.*

#### **USF-SMMARTT Research Foci**

- ☞ Sustainable energy platforms
- ☞ Catalytic/separations materials
- ☞ Chemical/biological sensors
- ☞ Solid state drug delivery
- ☞ Hybrid metal-organic/bio-materials

#### **USF-SMMARTT Faculty Members**

- ☞ Over \$5 million in funding since 2005
- ☞ 15 patents in biotech. and MOMs
- ☞ >400 publications in top tier journals
- ☞ Extensive industrial collaboration
- ☞ >3000 citations/year

For more information on research opportunities in USF-SMMARTT please inquire at: [SMMARTT@cas.usf.edu](mailto:SMMARTT@cas.usf.edu)  
or view our www site: <http://chemistry.usf.edu/smmartt/>