

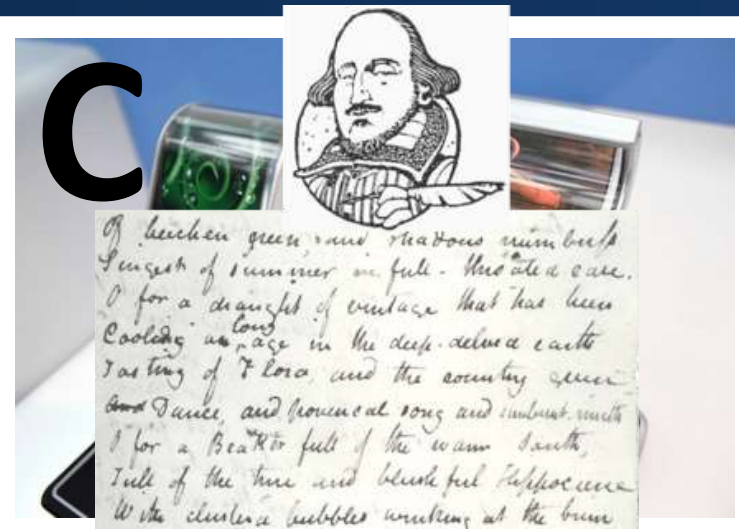
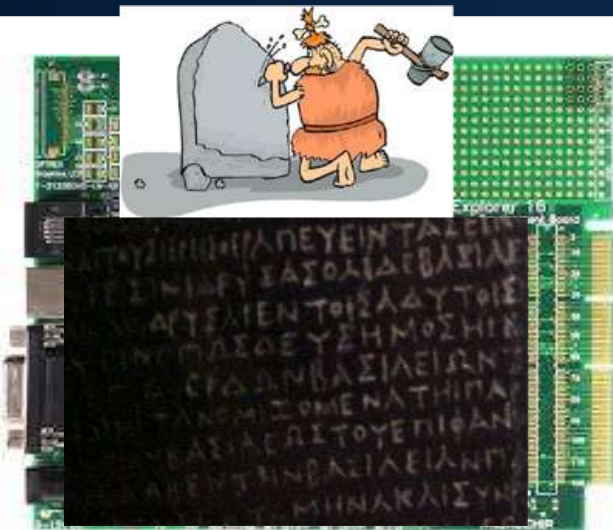
Organic Materials Group



College of Arts & Sciences
CHEMISTRY

Prof. John Anthony
Prof. Chad Risko
CAER / Chemistry

What does this group do?



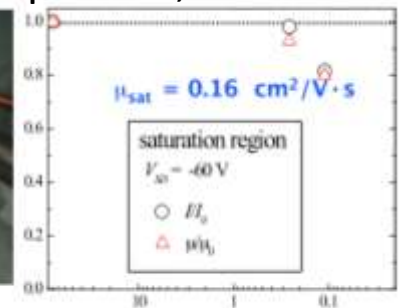
Carbon materials allow electronics to be: Flexible, Thin, Light, Printable, Inexpensive, Efficient, Biocompatible



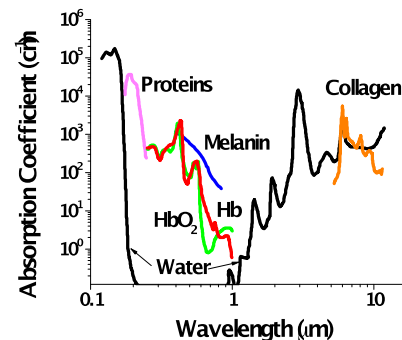
Solar cell spray-painted on a rock



Solid-state lighting pixel

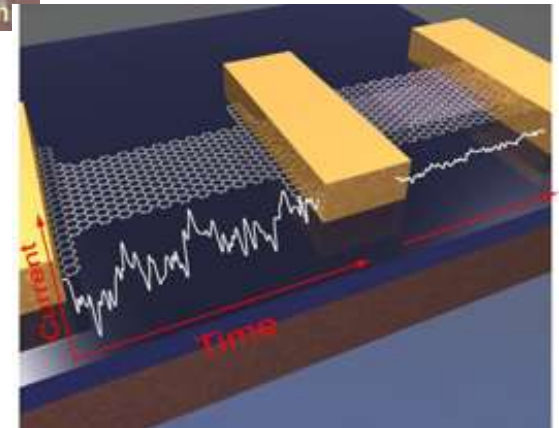
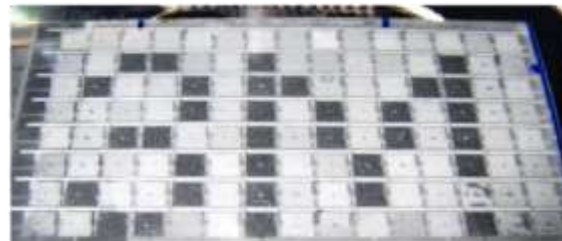
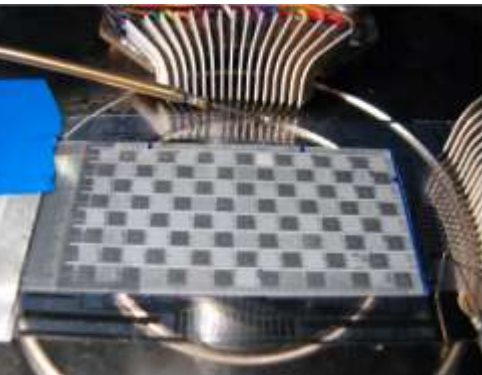
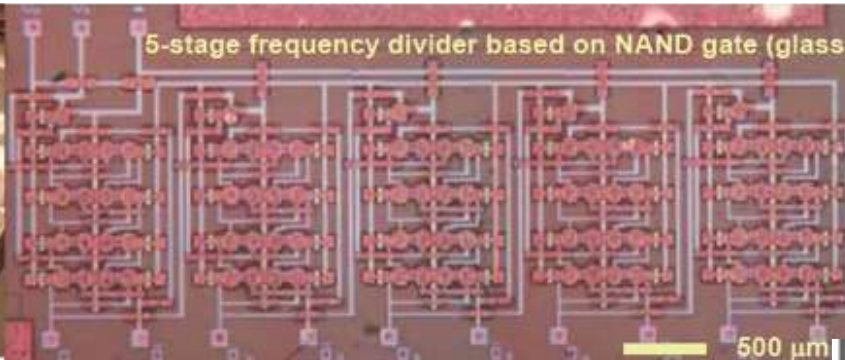
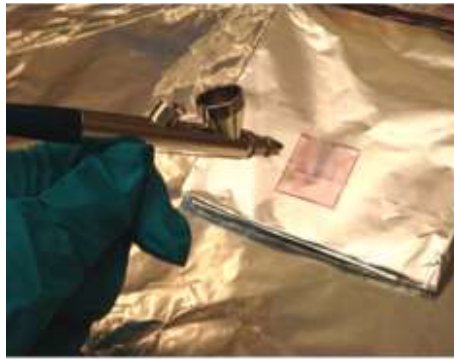
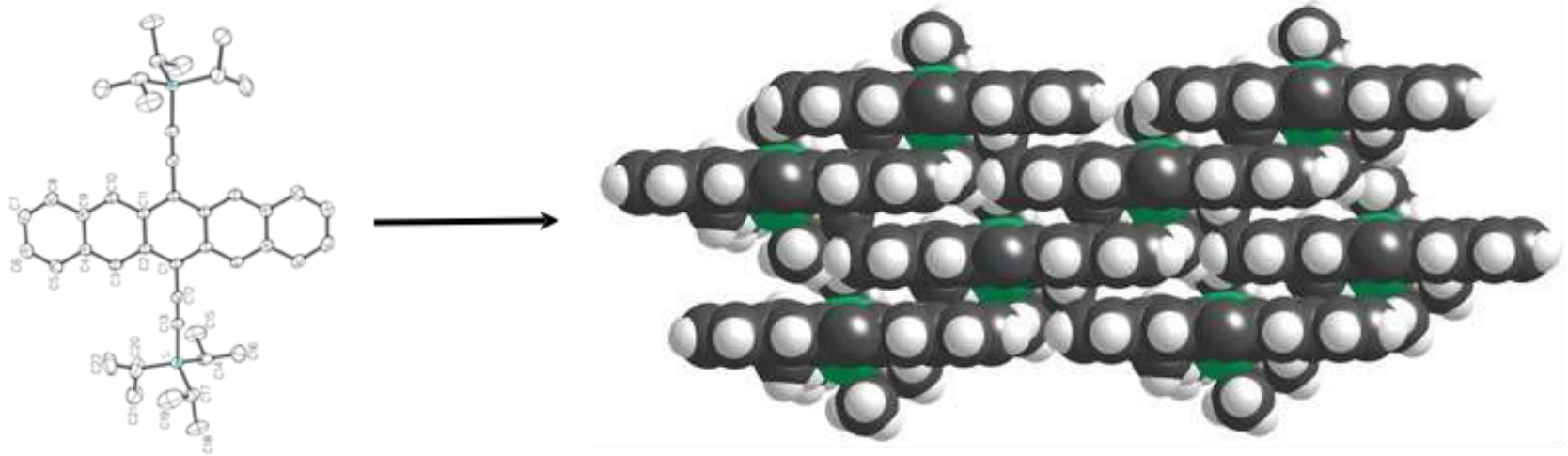


Robust transistors for flexible displays

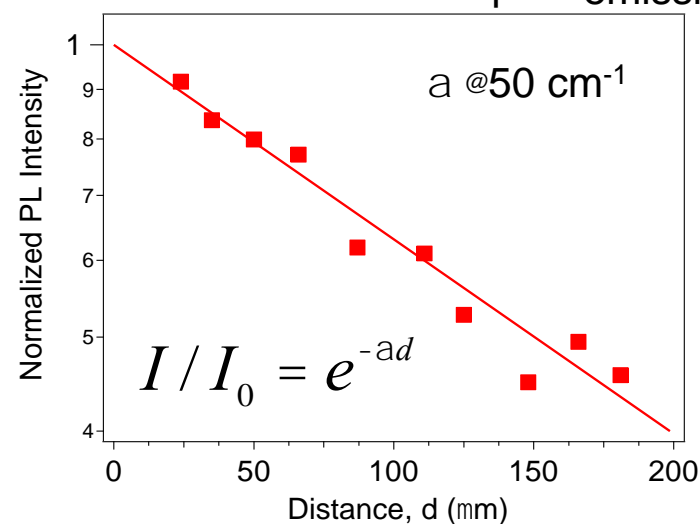
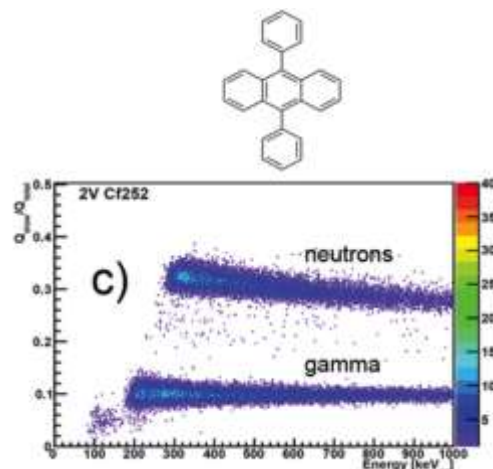
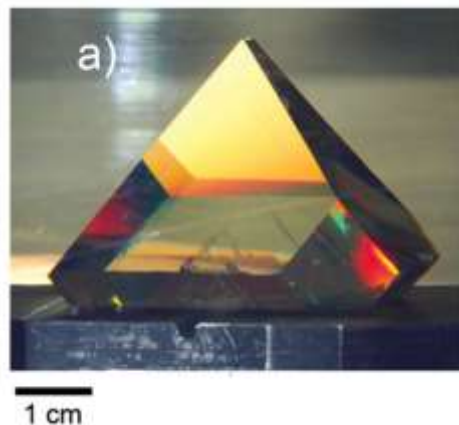
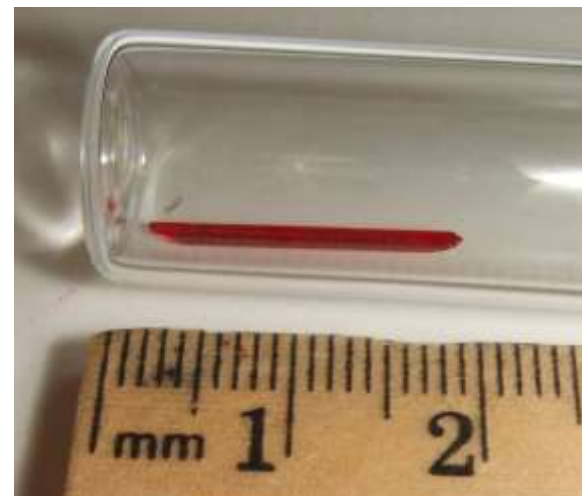
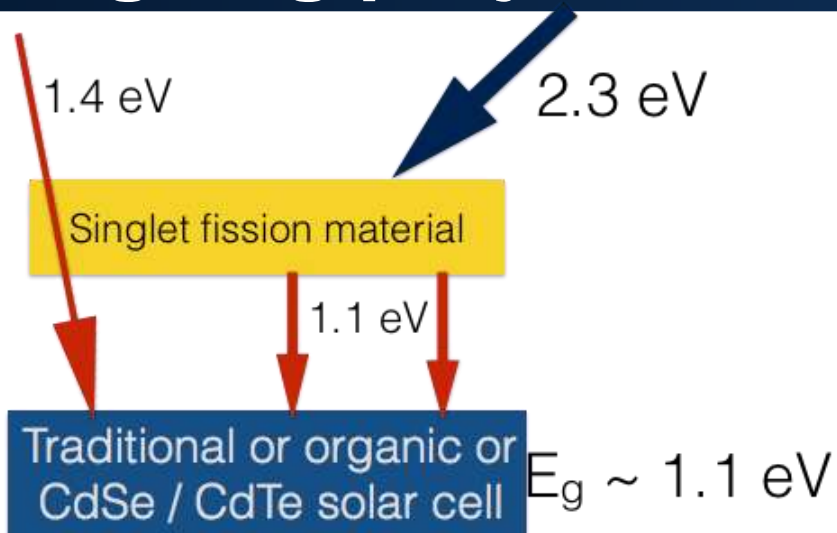


Tumor imaging

Ongoing projects: Electronics



Ongoing projects: Photonics



What skills and expertise can you acquire?

- Organic material synthesis
- Electronics-grade purification techniques
- Electrochemistry
- Fundamental photophysical characterization
- Structural material characterization – thin-films and crystals

Who will you work with?



Additional info

- **Who funds the OMG?**

National Science Foundation

U.S. Department of Energy

Office of Naval Research

Private corporations

Department of Homeland Security

- **Where does the OMG publish?**

Nature Materials

Nature Chemistry

Chemistry of Materials

Advanced Materials *Nature Communications* *Proceedings of the National Academy of Science*

Journal of Materials Chemistry

Journal of the American Chemical Society

- **Where does the biofuels group present its results?**

Materials Research Society

American Chemical Society National Meeting

SPIE (Optics & Photonics)

Functional π -Electron Systems Symposium

- **Where do students that work in the biofuels group go afterwards?**

Industry (e.g. 3M, ICN, BASF)

Government (e.g. National Labs)

Graduate or Medical School

Academia (e.g. Juniata College, U. Kentucky, Ole Miss)