

Gitti Frey  
Associate Professor  
Department of Materials Science and Engineering  
Technion

### **Biosketch**

Gitti Frey is an Associate Professor in the Department of Materials Science and Engineering in the Technion where she and her group develop new approaches to co-assemble organic and inorganic precursors into hybrid opto-electronically functional systems with molecular level control over interfaces, structure, and morphology. They use a combination of techniques including scanning and transmission electron microscopy, absorption and emission spectroscopies and X-ray techniques to yield insights on the compositions, structures, and distributions of the organic and inorganic species within the materials over multiple length scales. The hybrid systems are then integrated into opto-electronic applications such as photovoltaics, light-emitting diodes and electrochromic devices. The device performances not only confirm the successful design and synthesis of the hybrid materials and interfaces but also provide deep insight in the molecular and electronic processes in hybrid materials, specifically at the inhomogeneous interfaces.

Group Homepage: <http://materials.technion.ac.il/Hybrid-Materials-and-Devices-Group/>