

### **Doping gradient in electro-catalytic materials (Technion)**

**code:** CHM-1668

Electro-chemical cells requires materials that simultaneously electrically-conduct and allow chemical reactions, activities that conflict with one another. The proposed solution includes a doping gradient strategy such that the dopant materials are appropriate for the function of each region. In the bulk, the material will include a higher concentration of dopants that enhance electron conductivity. At the surface, the material will have a lower concentration of these dopants since they inhibit chemical activity. The advantage is the simultaneous efficiency in both conductivity and reactivity.

### **Contact for more information:**

Gabriel Shemmer , +972-77-829-1780

---

T - Technion Technology Transfer  
Technion City, Senate Bldg., Haifa 32000, Israel  
Tel. 972-4-829-4851; 972-8325-375  
Fax. 972-4-832-0845