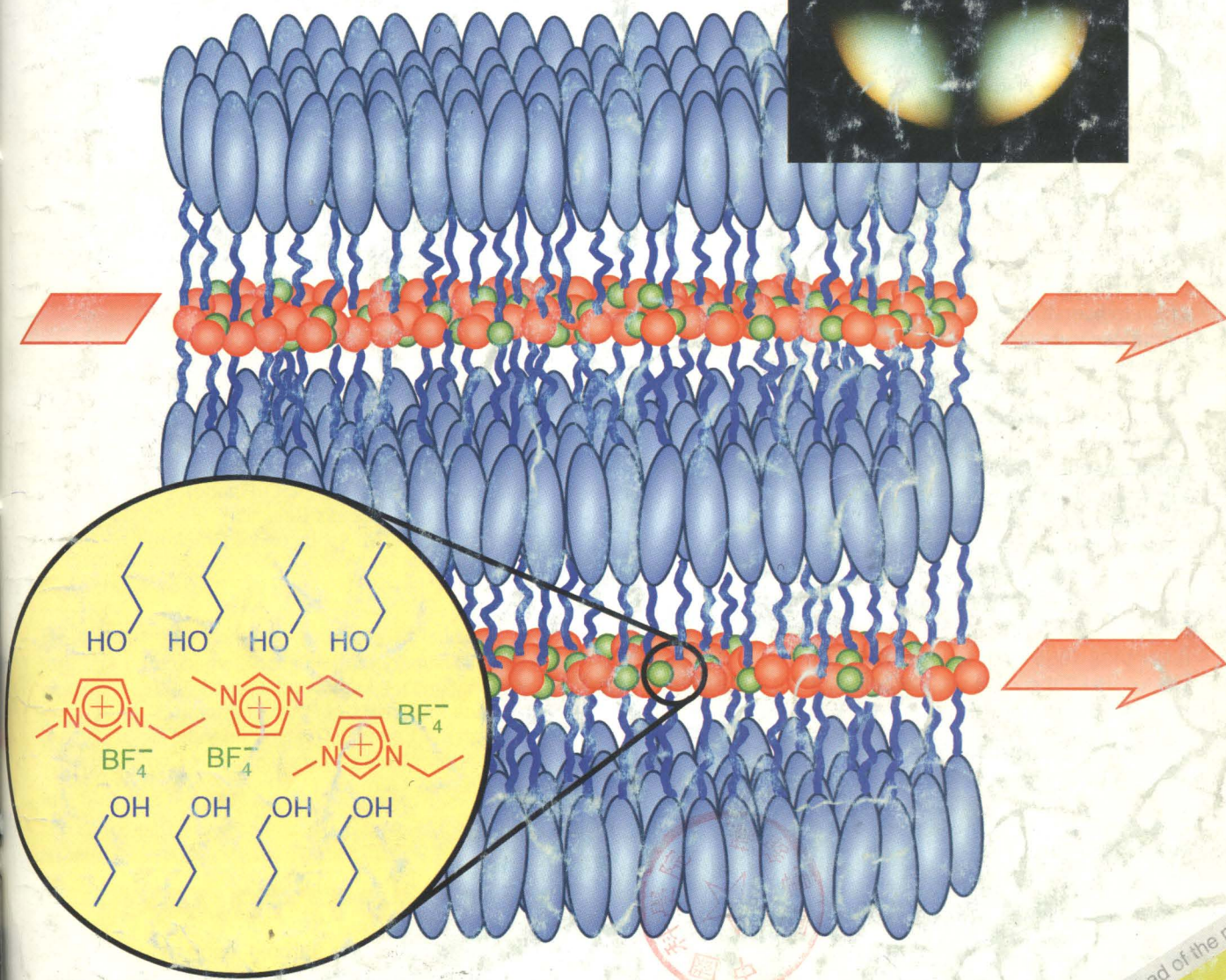
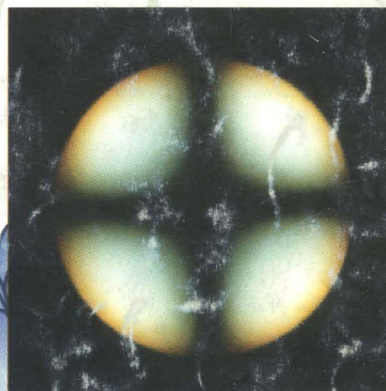




# ADVANCED MATERIALS



Layered Ionic Liquids

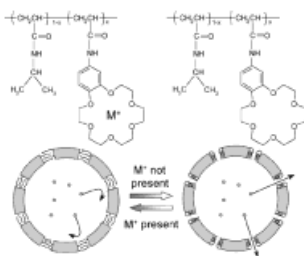
n-Type Conjugated Polymer for Thin-film Transistors

Tridirectional Protonic Conductivity in Soft Materials

Molecular-Recognition Microcapsules

## Communications

**Unique molecular-recognition microcapsules** for environmental stimuli-responsive controlled release have been developed. The microcapsules consist of a core-shell porous membrane. The pores contain linear-grafted poly(NIPAM-co-BCAm) chains, which act as the molecular-recognition gates. The Figure shows the mechanism of the opening of the pores to release the molecules inside.



L.-Y. Chu, T. Yamaguchi,\* S. Nakao

*Adv. Mater.* **2002**, *14*, **386** ... 389

A Molecular-Recognition Microcapsule for Environmental Stimuli-Responsive Controlled Release