Multilayers with Nanocontainers: Redox-controlled Reversible Encapsulation of Guest Molecules

Stable multilayer films bearing CB[8] have been successfully constructed. The as-prepared multilayer films exhibit good properties as surface-imprinted multilayers because the CB[8] locked inside the multilayers can act as nanocontainer with specific binding to certain guest molecules. The loading and release of the guest is redox-controllable and reversible.