The cover picture shows that packing patterns of an m-substituted bpy, 4,4'-dinonyl-2,2'-bipyridine (9-bpy) and their corresponding metal complexes arrays on highly oriented pyrolytic graphite upon in situ copper or zinc coordination. The STM investigation on the metal directed structural transformations of byps, together with merits from previous related researches, demonstrate that the type of metal centers and the substitution positions of side chains play an important role in adjusting the coordination motifs of bipyridine derivatives. More details are discussed in the article by Wang and coworkers on page 130—133.

Minireviews

Application of Nano-TiO₂ in Cosmetics

Nano-titanium dioxide has been favored by sunscreen cosmetics producers because of its UV absorption and scattering abilities. However, the high photocatalytic activity and aggregation problem limit greatly its application in cosmetics. This paper reviews nano-TiO₂’s preparation, modification, and its application in sunscreen cosmetics.

Yiwen Fang,* Xupeng Lu, Wenbin Chen
An STM Investigation on a Metal Induced Structural Evolution of an \( m \)-Substituted Bipyridine Derivative on Highly Oriented Pyrolytic Graphite

Yi Wang, Liang Luo, Qunhui Yuan*

An on-surface monolayer of 4,4'-dinonyl-2,2'-bipyridine was constructed to investigate the metal induced structural evolution of \( m \)-substituted bipyridine derivatives.

Adsorptive Removal of Pb(II) Ions with Magnetic Metal-Organic Frameworks from Aqueous Samples

Haochi Liu, Feifei Li, Ligang Chen,* Jie Ding,* Mingli Sun

We describe the synthesis of a highly porous Fe3O4/HKUST-1 composite via two facile steps. The magnetic metal-organic frameworks was applied as novel adsorbent for fast removal of Pb(II) ions from aqueous solution.