

Academic Lecture



报告人: Prof. Yining Huang

(The University of Western Ontario)

- 时间: 2016-08-10(周三)上午10:30-12:00
- 地点:无机楼107会议室

报告简介: Metal-organic frameworks (MOFs) are a novel type of porous materials with many current and potential applications. Solid-state NMR (SSNMR) spectroscopy is a powerful technique for MOF characterization. SSNMR provides nuclide-specific information on structure and dynamics, which is complementary to that obtained from X-ray diffraction. In this presentation, Prof. Huang will provide an overview on application of multinuclear (¹H, ¹³C, ²H, ¹⁷O, ⁹¹Zr, ²⁵Mg, ¹¹⁵In, ⁶⁷Zn, ¹²⁹La, ^{47/49}Ti) SSNMR to MOF characterization. The examples include locating CO₂ and H₂ binding sites; obtaining dynamic info of guest species; probing the local environment of a variety of metal centers; identifying chemically different species; resolving crystallographically non-equivalent sites in the unit cell; monitoring the phase transition as a function of temperature; exploring the origin of disordering around metal ions.





报告人简介: 黄忆宁教授,博士,加拿大西安大略大学化学系主任、加拿大 UWO华人教授协会主席。 B.Sc., M.Sc., Peking University; Ph.D., McGill University; NSERC PDF, University of British Columbia. Prof. Huang' research is directed towards the investigations of various porous materials including zeolites, AIPO4 based molecular sieves, metalorganic frameworks (MOFs) and mesoporous materials as well as pillared lamellar solids, layered metal phosphates and transition metal dichalcogenides. Current efforts emphasize vibrational and, in particular, solid-state NMR spectroscopy.

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