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XLH chemistry for organic nanogrids with "Plenty of Room"

Organic nanogrids are different from the macrocycles according to the Chinese FangYuan's culture and ancient window patterns that inspired us to explore the unprecedented direction. Nanogrids serve as the units to not only 3D cages or Covalent Organic Polyhedra (COP), Covalent Organic Frameworks (COFs), and three-dimensional metal-organic frameworks (MOF), but also to soluble nanopolymers with the double merits of both carbon nanotubes and polymers. We explored the synthon design of nanogrids that is the starting point for the molecular nanotechnology to manipulate various funtons such as electron, photon, exciton, phonon, proton, as well as mechanon (Figure 1). By means of the designable vertices and edges, nanogrids have absolute merits with infinite expendability to enter internet or networks according to the window's pattern of ancient China that offer unprecedented functional and optoelectronic materials. Ultimately, beyond above structures and architectures, nanogrid will offer a bridge between molecules and macroscopic compounds to challenge Feynman's prediction. XLH chemistry make era of consciousness possible that offer a chance to fabricate artificial PhD/chemists who release scientists from lab in the next half of the 21st century.

Biography

Xie Linghai is a Professor of Organic/Polymer Materials Chemistry at Nanjing University of Posts and Telecommunications. He obtained his PhD from Fudan University in June 2006. After this, he joined Nanjing University of Posts and Telecommunications and became a Leader of the Center for Molecular Systems & Organic Devices. He won the NSFC Award for Excellent Young Scholar in 2013. His research activities focus on molecular installing technology, synergistically molecular attractor-repulsor theory, polygrid-based wide-bandgap semiconductors, organic electrets for memories and memristors. He has published more than 150 papers in reputed journals and has been cited by more than 2000.

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