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Graphdiyne: From foundation to application

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As a new all-carbon material, 2D graphdiyne has attracted more and more attention due to its preparation under low-temperature. Graphdiyne, consisting of layers containing sp and sp² carbons, was proposed as one of the synthetically approachable carbon allotropes. In graphdiyne, each benzene ring is connected to six adjacent benzene rings through two carbon-carbon triple bonds, resulting in a flat porous structure exhibiting high chemical stability and electrical conductivity. Graphdiyne families have attracted great attention of many structural, theoretical and synthetic scientists, due to their promising electronic, optical and mechanical properties. The physical properties of graphdiyne have also been systemically investigated and the applications of graphdiyne in the fields of energy, optoelectronics and catalysis have been achieved.

Speaker Biography

Yuliang Li is currently working as a professor at the Institute of Chemistry, Chinese Academy of Sciences. He worked as a visiting scholar and visiting professor at the Lab of Organic Chemistry at University of Amsterdam in Netherlands, the Radiation Lab at University of Notre Dame and the Department of Chemistry at the University of Hong Kong. He has published more than 600 peer reviewed scientific articles and invited reviews. His research interests lie in the fields on design and synthesis of functional molecules, self-assembly methodologies of low dimension and large size molecular aggregations structures, chemistry of carbon and rich carbon, with particular focus on the design and synthesis of photo-, electro-active molecular heterojunction materials and nanoscale and nano-structural materials.

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