

# Beyond Organic Electronics

강현구 (Evan S. H. Kang)

*Department of Physics, Chungbuk National University, Cheongju 28644, Republic of Korea*

## **Abstract**

Since Heeger, Macdiarmid and Shirakawa reported electrically conducting plastics in 1977, organic electronics has continued to evolve and expand, now forming a large part of our everyday lives with numerous applications ranging from foldable or rollable display to smart windows and electronic paper. However, low charge carrier mobility and efficiency of organic materials compared to the inorganic counterparts have been also considered a huge drawback. Accordingly, a new research stream in organic electronics tends to maximize the intrinsic properties of organic materials instead of trying to compete for higher conventional figure of merits with inorganic materials. In this talk, I will present a couple of my recent works which exemplify this movement in this field.