

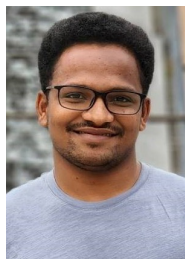
Non-Thermal Plasma Assisted Fabrication of Ultrathin NiCoO_x Nanosheets for High-Performance Supercapacitor



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Invited for this month's cover picture is the group of Jaebeom Lee from Chungnam National University. The cover picture shows exfoliation of bulk NiCoO_x layered double hydroxides into few layers of ultrathin nanosheets using a non-thermal Ar-plasma exfoliation strategy to obtain a single layer of NiCoO_x nanosheets with excellent supercapacitive properties owing to improvement on the accessible active sites for charge storage and transport. Read the full text of the Research Article at 10.1002/batt.202200270.

What is the most significant result of this study?

A non-thermal Ar-plasma exfoliation strategy is used to obtain a single layer of NiCoO_x nanosheets with excellent charge storage and transport.

What topics are you working on at the moment?

Professor Lee's research interests range from fundamental to applied magnetoplasmonic nanomaterials to biosensors, energy storage, and conversion. Currently, we are investigating electrochemistry for energy storage and energy conversion, chirality, as well as photocatalysis. A bottom-up approach is used to synthesize the nanomaterials and study mechanisms of interfacial reactions. We invite you to take a look around the website to learn more about our research, publications (and books), and scientists collaborating with the group. <https://nanoleelab.wixsite.com/homepage/home>.

What was the inspiration for this cover design?

To create ultrathin nanostructures for energy storage, plasma treatment is used.

Who contributed to the idea behind the cover?

Prof. Jaebeom Lee

