



Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

Seminar

Advances in Materials, Electrodes and **Electrolytes for Next-Generation Lithium Based Anode-Free Batteries**

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At present Li-ion technology has its own limitations to fulfil the need for higher energy density. Moving to lithium metal batteries could be a forefront solution and battery fabrication without using Li-(anode-free) will be interesting metal an implementation on top of that along with costeffectiveness. It comes with boon and bean as Lireactive to electrolytes and is metal creates dendrites as well. Here we have developed an electrolyte that provides not only stable cycling with Li-metal but also survives at very high voltages as 5V during battery operation. This achievement is realised in anode-free configuration and important for future technology.

Monday, Nov 20th 2023 11:30 AM (Tea / Coffee 11.15 AM) Auditorium, TIFR-H