

## Accepted Manuscript

Title: Structural and electronic properties of solid-state ( $\text{LiMPO}_4 \mid \gamma\text{-Li}_3\text{PO}_4$ )<sub>[010]</sub> electrochemical interface ( $M = \text{Fe}$  and  $\text{Co}$ )

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- ❖ Investigation of the structural, electronic, and electrochemical properties of the bilayered nanocomposite made up of  $\text{LiMPO}_4$  as a positive electrode and  $\gamma\text{-Li}_3\text{PO}_4$  as a solid-state electrolyte.
- ❖ Calculations on electronic structure to gain the information about variation of valance and conduction bands in the thickness dependent electrode and electrolyte interfaces.
- ❖ By varying thickness of electrode, Li-ion vacancy formation and electrochemical performance of the composite can be altered favourably.

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