Accepted Manuscript

Title: Structural and electronic properties of solid-state ($LiMPO_4$ | γ-Li_3PO_4)$_{[010]}$ electrochemical interface (M = Fe and Co)

Author: S Selva Chandrasekaran P. Murugan

PII: S0169-4332(17)30549-4
DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2017.02.176
Reference: APSUSC 35285

To appear in: *APSUSC*

Received date: 15-10-2016
Revised date: 17-2-2017
Accepted date: 19-2-2017

Please cite this article as: S Selva Chandrasekaran, P. Murugan, Structural and electronic properties of solid-state (Li*M*PO$_4$<ce:hsp sp=0.25/>*mid*<ce:hsp sp=0.25/>*rmgamma*-Li$_3$PO$_4$)$_{[010]}$ electrochemical interface (*M*<ce:hsp sp=0.25/>=<ce:hsp sp=0.25/>Fe and Co), <*![CDATA[Applied Surface Science]]*> (2017), http://dx.doi.org/10.1016/j.apsusc.2017.02.176

- Investigation of the structural, electronic, and electrochemical properties of the bilayered nanocomposite made up of Li*M*PO_4 as a positive electrode and γ-Li_3PO_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.