

Support information

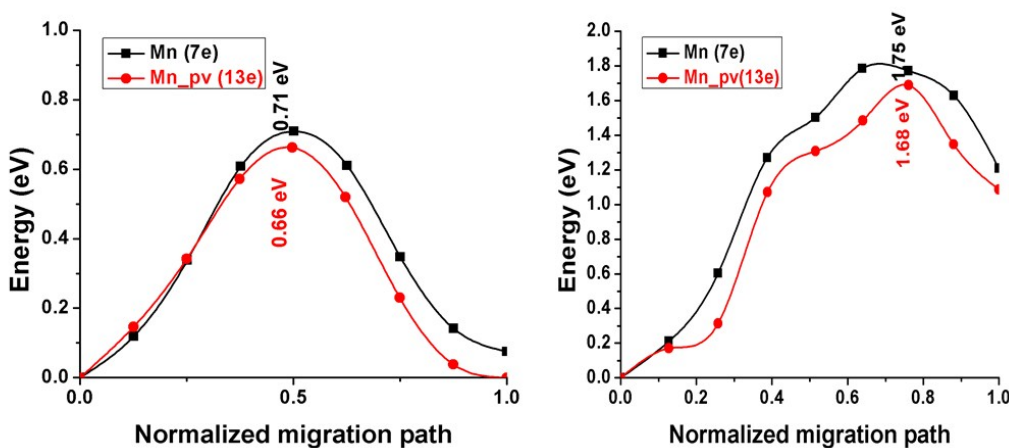


Figure S1 Comparison of the calculated energy barriers for Li-ion diffusion and Mn-ion migration in LiMnO₂ with two “semi-core” states for Mn.

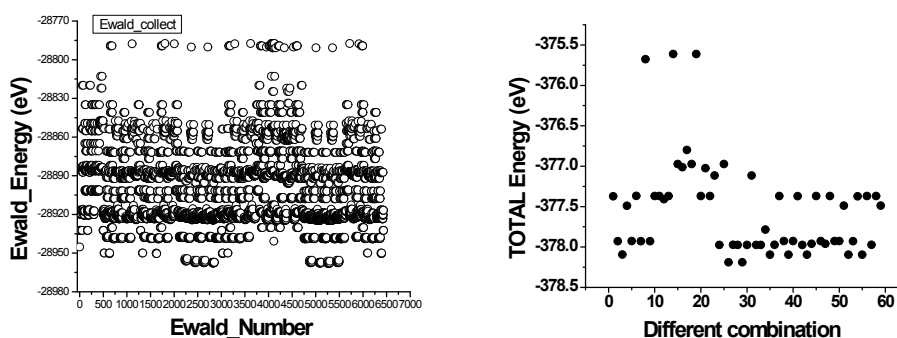


Figure S2a Optimization of Li_{0.5}MnO₂ by the Ewald method.

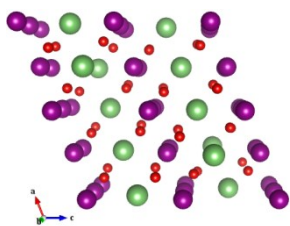


Figure S2b The schematic structure of monoclinic Li_{0.5}MnO₂ (C₂/m).

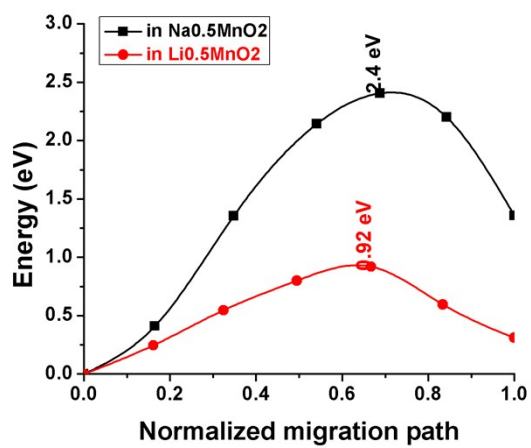


Figure S2c Comparison of the calculated energy barriers for Mn-ion migration into the Li- and Na-layers layer in $A_{0.5}MnO_2$ ($A=Li, Na$).