

Table 1 Li⁺ diffusion barriers based on the different diffusion paths in LLTO|Li interface.

Li1-Li2/Å	Li ⁺ diffusion barrier/eV	Li2-Li3/Å	Li ⁺ diffusion barrier/eV
0	0	0	0
1.57989	0.11198	0.69589	0.15424
2.97921	0.56293	2.487	0.60757
4.28792	1.08265	4.17352	1.17782
5.59101	1.23404	5.7656	1.25969
6.6945	-0.09245	7.48079	-0.1

Table 2 Li⁺ diffusion barriers based on the different diffusion paths in LLTO|LiIn₂ interface.

Li1-Li2/Å	Li ⁺ diffusion barrier/eV	Li2-Li3/Å	Li ⁺ diffusion barrier/eV	Li3-Li4/Å	Li ⁺ diffusion barrier/eV
0	0	0	0	0	0
1.02957	0.97477	0.71892	1.21451	0.90389	0.88539
2.00572	0.08921	1.38081	0.16204	1.8079	0.05249
2.9317	0.08069	2.1101	0.05019	2.67348	0.11214
3.82689	0.87719	2.73717	0.63227	3.70845	1.03035