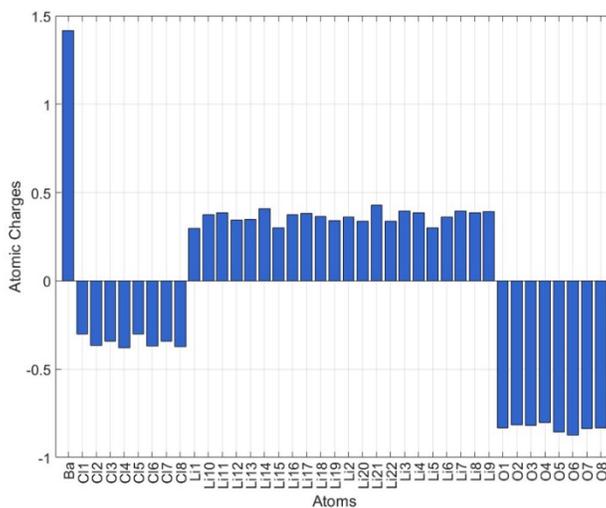


### Impact of Dispersed Crystalline Domains on Lithium-Ion Conductivity in Amorphous $\text{Li}_{2.99}\text{Ba}_{0.005}\text{OCl}$ Electrolytes



**Figure S1:** Mulliken charge distribution analysis of the Ba-doped  $\text{Li}_3\text{OCl}$  structure. The analysis confirms charge neutrality in a 39-atom system, where five lithium atoms were substituted by Ba atoms and five additional lithium vacancies were created. The summed Mulliken charges are approximately zero, validating the accuracy of the charge distribution.