

Supporting Information

**Structural Changes surrounding Lithium Ions with A-site Order or Lithium Ion
Concentrations on their Conduction for $\text{La}_{2/3-x}\text{Li}_{3x}\text{TiO}_3$ Perovskite**

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Table S1 List of refined crystal parameters and reliability factors in HT- and LT-La_{2/3-x}Li_{3x}TiO₃, Orthorhombic space group *Cmmm* (No.65), *g*, occupancy; *B*, atomic displacement parameters.

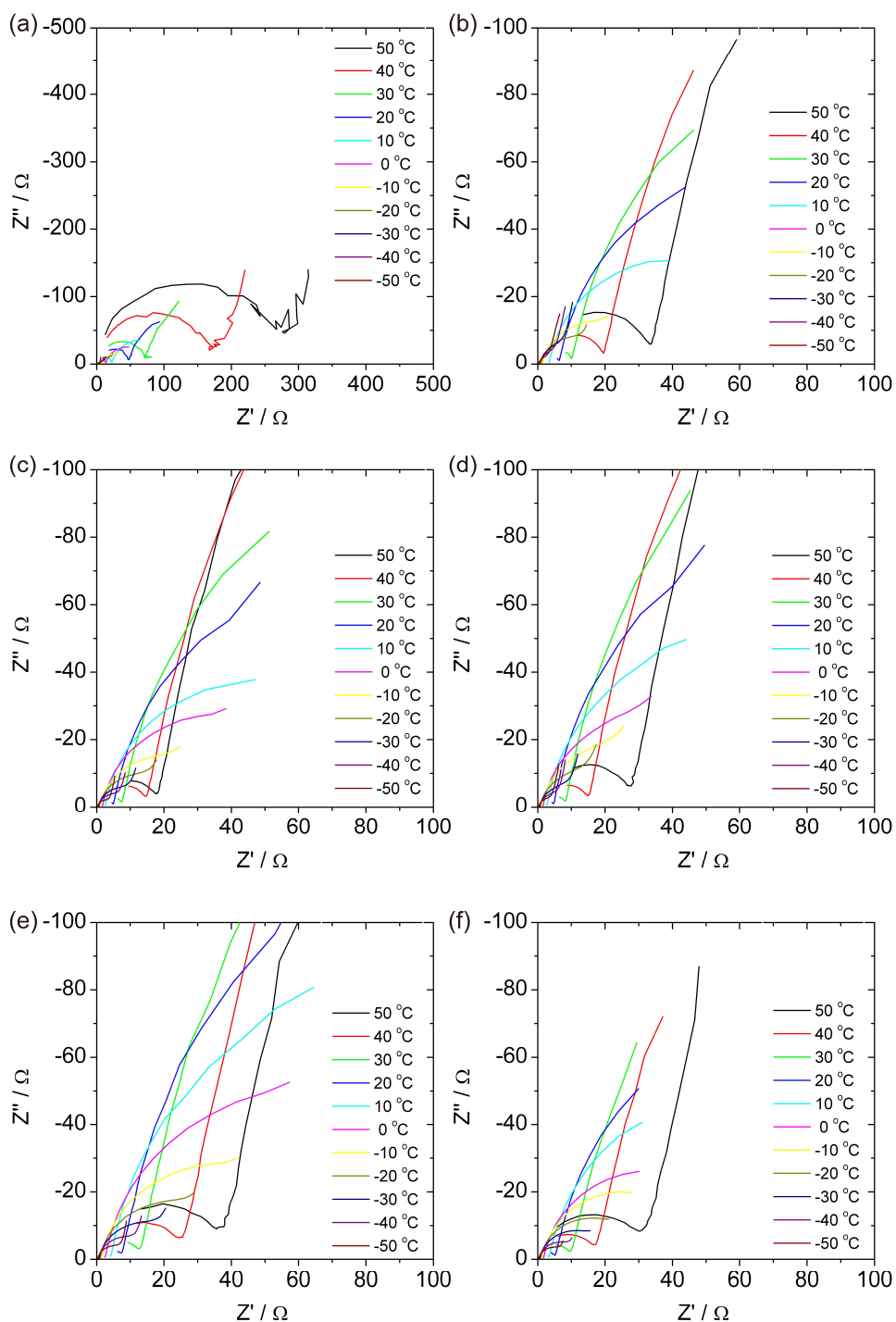


Figure S1. The results from the electric impedance spectroscopy for HT-La_{2/3-x}Li_{3x}TiO₃ (a) $x = 0.06$, (b) $x = 0.09$, (c) $x = 0.11$, (d) $x = 0.12$, (e) $x = 0.13$, (f) $x = 0.15$ measured at various temperatures (from -50 °C to 50 °C).

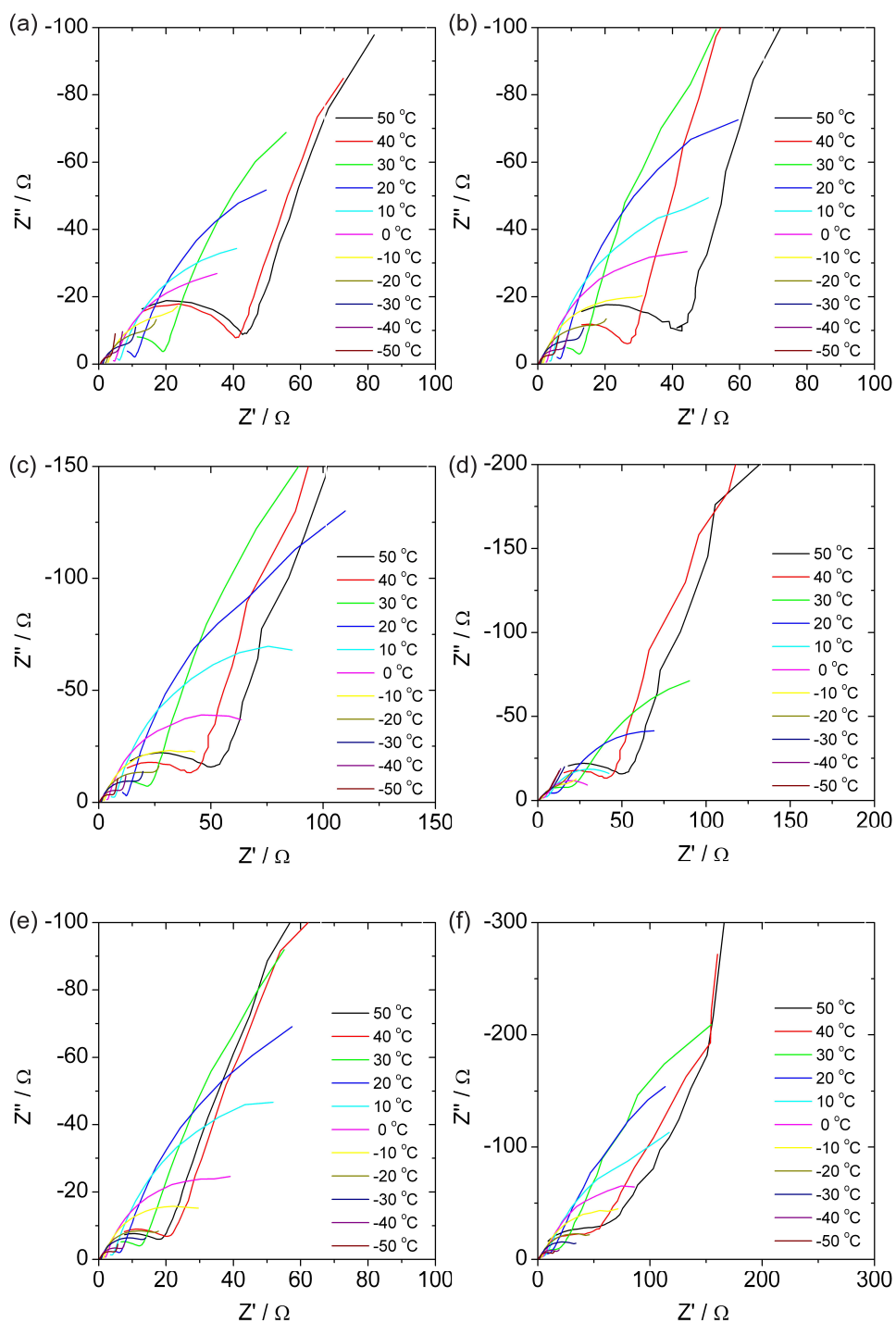


Figure S2. The results from the electric impedance spectroscopy for LT-La_{2/3-x}Li_{3x}TiO₃ (a) $x = 0.06$, (b) $x = 0.09$, (c) $x = 0.11$, (d) $x = 0.12$, (e) $x = 0.13$, (f) $x = 0.15$ measured at various temperatures (from -50 °C to 50 °C).