# List of Figures

# List of Tables

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|---|---|
| $T_g$ | Glass transition temperature |
| $T_c$ | Crystallization temperature |
| $T_p$ | Peak crystallization temperature |
| $T_m$ | Melting temperature |
| DSC | Differential scanning calorimetry |
| FICs | Fast ionic conductors |
| SICs | Superionic conductors |
| NASICON | Sodium Superionic Conductor |
| $\sigma$ | Conductivity |
| $\sigma_{dc}$ | dc conductivity |
| $\sigma_e$ | Electronic conductivity |
| MAE | Mixed alkali effect |
| EDLC | Electrochemical double layer capacitor |
| SCs | Supercapacitors |
| MQ | Melt quench |
| DCCA | Drying control chemical additive |
| XRD | X-ray Diffraction |
| PXRD | Powder X-ray diffraction |
| FWHM | Full width half maximum |
| RDF | Radial distribution function |
| PDF | Pair distribution function |
| EM radiation | Electromagnetic radiation |
| ATR | Attenuated total reflectance |
| DTA | Differential thermal analysis |
| TGA | Thermogravimetric analysis |
| $E_a$ | Activation energy |
| CV | Cyclic voltammetry |
| IS | Impedance spectroscopy |
| CPE | Constant phase element |
| OCV | Open circuit voltage |
| EMF | Electromotive force |
| RT | Room temperature |
| LNT | Liquid nitrogen temperature |
| [EMIM]$BF_4$ | 1-Ethyl-3-methylimidazolium tetrafloroborate |
| [EMIM]$CF_3SO_3$ | 1-Ethyl-3-methylimidazolium triflormethanesulphonate |
| [BMIM]Br | 1-Butyl-3-methylimidazolium bromide |
| LE | Lithium nitrate, [EMIM]$BF_4$ |
| LF | Lithium nitrate, [EMIM]$CF_3SO_3$ |
| LB | Lithium chloride, [BMIM]Br |
| LPB | Lithium chloride, Lead nitrate, [BMIM]Br |
| IL | Ionic Liquid |