

LIST OF SYMBOLS AND ABBREVIATIONS

σ	Conductivity
ν	Symmetrical stretching
ν_{as}	Asymmetrical stretching
δ	Symmetrical or in-plane (ip) bending
γ	Asymmetrical or out-of-plane (oop) bending
ω	Wagging
ρ	Rocking
μ	Mobility
BMI ⁺	1-butyl-3-methylimidazolium cation
BMIBF ₄	1-butyl-3-methylimidazolium tetrafluoroborate
BMI	1-butyl-3-methylimidazolium iodide
BMITf	1-butyl-3-methylimidazolium triflate
C	Carbon
<i>D</i>	Diffusion coefficient
<i>E_a</i>	Activation energy
EC	Ethylene carbonate
EIS	Electrochemical impedance spectroscopy
F	Fluorine
FTIR	Fourier transform infrared
H	Hydrogen
H ⁺	Proton
IL	Ionic liquid
LE	Liquid electrolyte
Li ⁺	Lithium cation
LiTf	Lithium trifluoromethanesulfonate or lithium triflate
<i>n</i>	Number density
Na ⁺	Sodium cation
O	Oxygen
PAN	Poly(acrylonitrile)
PC	Propylene carbonate
PE	Polymer electrolyte
PEO	Poly(ethylene oxide)
PEMA	Poly(ethyl methacrylate)
PVdF-HFP	Poly(vinylidene fluoride-co-hexafluoropropylene)
<i>R_b</i>	Bulk resistance
<i>T_d</i>	Decomposition temperature
Tf ⁻	Triflate anion
TGA	Thermogravimetric analysis