

LIST OF ABBREVIATIONS/SYMBOLS

Definition	Abbreviation/Symbol
Adiabatic compressibility	β
Acoustic impedance	Z
Atomic polarization	P_A
Average Percentage Deviation	APD
Bruggman factor	F_B
Complex permittivity spectra	ϵ^*f
Complex impedance	Z^*f
Complex nonlinear least squares	CNLS
Cole-Cole	CC
Cole-Davidson	CD
Corrective correlation factor	g^f
Density	ρ
Dielectric relaxation spectroscopy	DRS
DC conductivity	σ_{dc}
Debye length	λ_d
Debye	DB
Enthalpy	ΔH
Entropy	ΔS
Electronic polarization	E_P
Electronic polarizability	α_E
Electrical modulus	M^*f
Electrical conductivity	σ^*f
Effective correction factor	g^{eff}
Electrode polarization relaxation time	τ_{EP}
Free volume	V_f
Gibbs free energy	ΔG
Geometric relaxation time	τ_g

Internal pressure	P_{int}
Intermolecular free length	L_f
Ionic polarization	P_i
Ionic polarization relaxation time	τ_σ
Ion mobility	μ
Ion diffusivity	D
Mobile ion concentration	P_0
Loss tangent	$\tan \delta$
Molar volume	V_m
Molar sound velocity	R
Molar compressibility	B
Molar refraction	R_m
Molecular radii	r
N, N-dimethyl formamide	DMF
Orientation polarization	P_o
Orientation polarizability	α_o
Polarization	P
Permittivity at optical frequency	ϵ_∞
Power reflected	P_r
Power transmitted	P_t
Penetration depth	d_p
Polarizability	α
Real part of complex permittivity	ϵ'
Refractive index	n
Relaxation time	τ
Surface tension	σ
Static dielectric constant	ϵ_0
Space charge polarization	P_s
Space-charge polarizability	α_s
Viscosity	η
Ultrasonic speed	U_v
Vector network analyser	VNA

*Other abbreviations and symbols are explained in the text.