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LIST OF SYMBOLS AND ABBREVIATIONS

Symbols

E_a	- Activation energy
θ	- Angle
A	Area of the sample
E_g	- Band gap
σ	- Conductivity
δ	Dislocation density
$\beta_{1/2}$	Full width half maximum
a	- Lattice parameter
l	- Length
ε	- Micro strain
k_o	- Octahedral Force constant
h	- Plank's constant
s	- Poisson's ratio
R	- Resistance
ρ	- Resistivity
G	- Rigidity modulus
k_t	- Tetrahedral force constant
ν	- Wave number
λ	- Wavelength
E	- Youngs modulus
σ_w	- Warburg Diffusion
D_{Li}	- Lithium diffusion coefficient
ω	- Angular frequency
i_o	- Exchange current density
C_{dl}	- Double layer capacitance