List of Symbols

Symbol	Description
χ	Electron Affinity
σ	Strain, Standard Deviation, Sheet Charge Density
ф	Work Function
φs	Surface potential
ε ₀	Permittivity of Vacuum
ΔΕς	Conduction Band Discontinuity
ΔE_g	Energy Bandgap difference
ΔEv	Valence Band Discontinuity
εr	Relative Permittivity
μ	Electron Mobility
a	Lattice Constant
С	Height of The Cell
Cij	Elastic Constant
ď	Lattice Spacing
Dn, Dp	Diffusivity of Electrons and Holes
E	Electric Field
Ec	Conduction Band Energy Level
E_F	Fermi Energy Level
Eg	Energy Bandgap
eij	Piezoelectric Moduli
E_V	Valance Band Energy Level
I_{DS}	Drain to Source Current
I_{DSN}	Normalized Drain to Source Current
J_n	Electron Current Density
J_p	Hole Current Density
$k_{Pb^{2+,j}}^{amp}$	Selectivity Coefficient
L	Length of The Gate, Contact Spacing
L_G	Length of Gate
L_{GD}	Gate to Drain Length
L_GS	Gate to Drain Length
m	Sensitivity
M_1 , M_2	Concentration of Stock and Desired Solution
n _S	Sheet Carrier Concentration
p P ^{PZ}	Hole Density
-	Piezoelectric Polarization
P _{SP}	Spontaneous Polarization Charge on Electron
q ah	Schottky Barrier Height
qφ₅ Rc	Contact Resistance
R _{SH}	Sheet Resistance
R _T	Total Measured Resistance
S	Slope of Calibration
T	Temperature
и	Bond Length of Cations
V_1 , V_2	Volume of Stock and Desired Solution
V_{DS}	Drain to Source Voltage
V_{G}	Gate Voltage
V_{GS}	Gate to Source Voltage
V_T	Threshold Voltage
W	Width of The Gate
θ	Angle of Diffraction
λ	Wavelength of X-Rays

