| Symbol | Description |
| :---: | :---: |
| $\chi$ | Electron Affinity |
| $\sigma$ | Strain, Standard Deviation, Sheet Charge Density |
| $\phi$ | Work Function |
| ¢s | Surface potential |
| $\varepsilon_{0}$ | Permittivity of Vacuum |
| $\Delta \mathrm{Ec}$ | Conduction Band Discontinuity |
| $\Delta \mathrm{E}_{\mathrm{g}}$ | Energy Bandgap difference |
| $\Delta \mathrm{Ev}$ | Valence Band Discontinuity |
| $\varepsilon_{r}$ | Relative Permittivity |
| $\mu$ | Electron Mobility |
| a | Lattice Constant |
| c | Height of The Cell |
| $C_{i j}$ | Elastic Constant |
| d | Lattice Spacing |
| $\mathrm{D}_{\mathrm{n}}, \mathrm{D}_{\mathrm{p}}$ | Diffusivity of Electrons and Holes |
| E | Electric Field |
| Ec | Conduction Band Energy Level |
| $\mathrm{E}_{\mathrm{F}}$ | Fermi Energy Level |
| $\mathrm{Eg}_{g}$ | Energy Bandgap |
| $\mathrm{e}_{\mathrm{ij}}$ | Piezoelectric Moduli |
| Ev | Valance Band Energy Level |
| Ids | Drain to Source Current |
| Idsn | Normalized Drain to Source Current |
| $\mathrm{J}_{\mathrm{n}}$ | Electron Current Density |
| $\mathrm{J}_{\mathrm{p}}$ | Hole Current Density |
| $k_{P b^{2+, j}}^{a m p}$ | Selectivity Coefficient |
| L | Length of The Gate, Contact Spacing |
| LG | Length of Gate |
| LGd | Gate to Drain Length |
| Las | Gate to Drain Length |
| m | Sensitivity |
| $M_{1}, M_{2}$ | Concentration of Stock and Desired Solution |
| ns | Sheet Carrier Concentration |
| p | Hole Density |
| $\mathrm{P}^{\text {PZ }}$ | Piezoelectric Polarization |
| Psp | Spontaneous Polarization |
| q | Charge on Electron |
| qфb | Schottky Barrier Height |
| Rc | Contact Resistance |
| Rsh | Sheet Resistance |
| RT | Total Measured Resistance |
| S | Slope of Calibration |
| T | Temperature |
| u | Bond Length of Cations |
| $V_{1}, V_{2}$ | Volume of Stock and Desired Solution |
| $V_{\text {DS }}$ | Drain to Source Voltage |
| VG | Gate Voltage |
| Vas | Gate to Source Voltage |
| $V_{T}$ | Threshold Voltage |
| W | Width of The Gate |
| $\theta$ | Angle of Diffraction |
| $\lambda$ | Wavelength of X-Rays |

