List of Symbols

Symbol	*Description*
S	Relative response
R_a	Resistance in air
R_g	Resistance in gas
ΔR	Change in resistance
ΔV	Change in voltage
ΔI	Change in current
V_a	Voltage in air
I_a	Current in air
λ	Wavelength
θ	Bragg angle
K	Scherrer constant
β	Full width half maximum
ε	Microstrain
c	Lattice constant
μ	Micro
KV	Kilovolt
Si	Silicon
Hz	Hertz
h	Plank constant
υ	Frequency
E_g	Band gap
A	Area
ϕ_b	Barrier height
k	Boltzmann constant
J	Current density
q	Charge
E_C	Conduction band energy
E_F	Fermi energy
E_V	Valance band energy
Ω	Ohm
τ_d	Decay time
τ_r	Rise time
χ	Electron affinity
η	Ideality factor
E_k	Kinetic energy
n	Nano
d	Inter plane distance
Φ_m	Metal work function
T	Operating temperature
V_r	Reverse bias voltage
A*	Richardson constant
β	Interface related parameter
$\Delta\phi_b$	Effective barrier height
R_{res}	Response time
R_{rec}	Recovery time