

## LIST OF SYMBOLS

Symbol	Details	Chapter (s) where used
$\epsilon$	Dielectric Constants of a Material	1
$(P)_n$	Polymer	1
$E_g$	Energy Band Gap	1
$\Phi$	Work Function of a Material	1
$I_{DS}$	Drain to Source Current	1-7
$V_{DS}$	Drain to Source Voltage	1-7
$V_{GS}$	Gate to Source Voltage	1-7
$L$	Channel Length	1, 3-7
$W$	Channel Width	1, 3-7
$C_{ox}$	Capacitance Per Unit Area of the Insulating Layer	1, 3-7
$V_{TH}$	Threshold Voltage	1, 3-7
$\mu_{sat}$	Field-Effect Carrier Mobility in Saturation Region	1-7
$g_m$	Transconductance	1-7
$SS$	Sub-Threshold Slope	1-7
$V_{bi}$	Build In Potential	1
$E_F$	Fermi Energy level	1
$\lambda$	Wavelength	1
$h$	Plank Constant	1
$\nu$	Frequency	1
$I_{ON/OFF}$	ON/OFF current ratio	1-7

## LIST OF ABBREVIATIONS

<b>Symbol</b>	<b>Details</b>	<b>Chapter (s) where used</b>
OFET	Organic Field Effect Transistor	1-7
OLED	Organic Light Emitting Diode	1,6
HOMO	Highest Occupied Molecular Orbital	1,6
LUMO	Highest Unoccupied Molecular Orbital	1,6
IE	Ionization Energy	1
EA	Electron Affinity	1
OSCs	Organic Semiconductors	1-7
RR-P3HT	Regioregular poly-3-hexylthiophene	1-7
AFM	Atomic Force Microscopy	1-7
-OH group	Hydroxyl Group	1,2,6
CNTs	Carbon Nanotubes	4
OTS	Octyltrichlorosilane	1,2,4
p <sup>+</sup> -Si	Heavily p-Doped Silicon	1-7
TCNQ	7,7,8,8 tetracyanoquinodimethane	1,2,6