

## LIST OF ABBREVIATIONS USED

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- ❖ HOMO- Highest Occupied Molecular Orbital
- ❖ LUMO- Lowest Unoccupied Molecular Orbital
- ❖ XRD- X-Ray Diffraction
- ❖ FTIR- Fourier Transform Infrared
- ❖ TEM -Transmission Electron Microscopy
- ❖ SEM -Scanning Electron Microscope
- ❖ UV- Ultra-Violet
- ❖ PL - Photoluminescence Spectroscopy
- ❖ AFM - Atomic Force Microscopy
- ❖ TG-DTA – Thermo Gravimetric and Differential Thermal Analysis
- ❖ EDAX- Energy Dispersive X-ray Analysis
- ❖ W-H- Williamson Hall
- ❖ D-S - Debye Scherrers
- ❖ QSE - Quantum Size Effect
- ❖ NPs - Nanoparticles
- ❖ NCs - Nanocrystals
- ❖ QD - Quantum Dot
- ❖ DOS- Density of States
- ❖ ELD- Electroluminescent Devices
- ❖ CZS - Cadmium Zinc Sulphide
- ❖ LED- Light Emitting Diodes
- ❖ W- Wurtzite
- ❖ ZB- Zinc Blende
- ❖ CB- Conduction Band

- ❖ VB- Valence Band
- ❖ JCPDS- Joint Committee on Powder Diffraction Pattern
- ❖ FWHM- Full Width at Half Maxima
- ❖ BSE -Backscattered Electrons
- ❖ EBSD -Diffracted Backscattered Electron Detectors