

List of Abbreviations

Abbreviation	Meaning
CBD	Chemical Bath Deposition
PVD	Physical Vapour Deposition
XRD	X-ray Diffraction
TEM	Transmission Electron Microscope
HRTEM	High Resolution Transmission Electron Microscope
EDS/EDAX	Energy Dispersive X-Ray Analysis
FESEM	Field Emission Scanning Electron Microscopy
AFM	Atomic Force Microscopy
XPS	X-ray Photoelectron Spectroscopy
PL	Photoluminescence
UV-Vis-NIR	Ultraviolet-Visible-Near-Infrared
DRS	Differential Reflectance Spectroscopy
FTIR	Fourier Transform Infrared Spectroscopy
SAED	Selected Area Electron Diffraction
DSSC	Dye Sensitized Solar Cell
BSA	Bovine Serum Albumin
TEA	Triethanolamine
TCS	Thermally Stimulated Current
FTO	Fluorine Coated Tin Oxide
LSPR	Localized Surface Plasmon Resonance
OA	Oleic Acid
ODA	Octadecylamine
CTS	Copper Tin Sulfide
TGA	Thioglycolic Acid
EDA	Ethylenediamine
TGA	Thermogravimetric Analysis
DMF	Dimethylformamide
PVA	Polyvinyl Alcohol
LPG	Liquefied Petroleum Gas
PET	Polyethylene Terephthalate
MEMS	Micro-Electromechanical Systems
ITO	Indium Tin Oxide
FF	Fill Factor
BHJ	Bulk Heterojunction

PEDOT: PSS	poly(3,4-ethylenedioxythiophene) polystyrene sulfonate
AES	Auger Electron Spectroscopy
PCE	Power Conversion Efficiency
CEs	Counter Electrodes
DLS	Dynamic Light Scattering
BHb	Bovine Hemoglobin
ITC	Isothermal Titration Calorimetry
CD	Circular Dichroism
HAS	Human Serum Albumin
FCS	Fluorescence Correlation Spectroscopy
QDs	Quantum Dots
TCSPC	Time-Correlated Single Photon Counting
NPs	Nanoparticles
RH	Relative Humidity
HEI	Hot Electron Injection
PIRET	Plasmon Induced Resonance Energy Transfer