

List of Abbreviations

Abbreviation Full form

a:Si	Amorphous silicon
AFM	Atomic force microscopy
AM	Air mass
ASTM	American Society for Testing and Materials
AZO	Aluminum doped zinc oxide
c-Si	Crystalline silicon
CB	Conduction band
CBD	Chemical bath deposition
CBM	Conduction band minimum
CBO	Conduction band offset
CIGS	$\text{CuIn}_x\text{Ga}_{1-x}(\text{S}, \text{Se})_2$
CPV	Concentrated photovoltaic
CZTS	$\text{Cu}_2\text{ZnSnS}_4$
CZTSe	$\text{Cu}_2\text{ZnSnSe}_4$
CZT(S,Se)	$\text{Cu}_2\text{ZnSn}(\text{S}, \text{Se})_4$
CZGS	$\text{Cu}_2\text{ZnGeS}_4$
CZGSe	$\text{Cu}_2\text{ZnGeSe}_4$
DC	Direct current
DSSC	Dye sensitized solar cell
EDX	Energy dispersive X-ray spectroscopy
EQE	External quantum efficiency
ICDD	International Center for Diffraction Data
ITO	Indium tin oxide
mc-Si	Multi crystalline silicon
min	Minute
NEXAFS	Near edge X-ray absorption fine structure
OPV	Organic photovoltaic
PCE	Photo conversion efficiency
PV	Photovoltaic
RF	Radio frequency
rpm	Rotation per minute
SEM	Scanning electron microscopy
SLG	Soda lime glass
TC	Texture coefficient
TCO	Transparent conducting oxide
TFSC	Thin film solar cell
TW	Terawatt
wt	Weight
XPS	X-ray photoelectron spectroscopy
XRD	X-ray diffraction
VB	Valance band
VBM	Valance Band minimum
VBO	Valance Band offset
vol	Volume

