

## List of Abbreviations

<i>Abbreviation</i>	<i>Full form</i>
a-C:H	Amorphous hydrocarbon
AC	Alternating current
AFM	Atomic force microscopy
AM	Air mass
ASTM	American Society for Testing and Materials
BC	Black chrome
CVD	Chemical vapor deposition
CPE	Constant phase element
CSP	Concentrated Solar Power
DRA	Diffuse Reflectance Accessories
DC	Direct current
DI	Deionized water
eV	Electron volt
EDX	Energy dispersive X-ray spectroscopy
ETC	Evacuated tube collector
EIS	Electrochemical impedance spectroscopy
FWHM	Full Width Half Maxima
FTIR	Fourier Transform Infrared
FE-SEM	Field emission scanning electron microscopy
FPC	Flat plate collector
HT	Heat treated
ICDD	International center for diffraction data
IR	Infrared
ICP-OES	Inductively coupled plasma optical emission spectroscopy
LFC	Linear Fresnel collector
LFR	Linear Fresnel Reflector
NIR	Near infrared
OCP	Open circuit potential
PDC	Parabolic dish collector
PLD	Pulse layer deposition
PVD	Physical vapor deposition
PCE	Photo conversion efficiency
RADCAL	Radiation calorimeter
SSAC	Spectrally selective absorber coating
SEM	Scanning electron microscopy
TCO	Transparent conducting oxide
UV	Ultra violet
WHO	World health organization
Vis	Visible
XRD	X-Ray diffraction