

Abbreviations

BARC	–	Bhabha Atomic Research Centre
BEI	–	Backscattered Electron Image
BHU	–	Banaras Hindu University
CNF	–	Carbon Nano-Fiber
CNG	–	Compressed Natural Gas
CNH	–	Carbon Nano-Horn
CNT	–	Carbon Nano-Tube
CRT	–	Cathode Ray Tube
DOE	–	Department of Energy
DSC	–	Differential Scanning Calorimetry
DST	–	Department of Science and Technology
DTA	–	Differential Thermal Analysis
EDS	–	Energy Dispersive X-ray Spectrometer
FWHM	–	Full Width – Half Maxima
GIFT	–	Green Initiative for Future Transport
GIP	–	Green Initiative for Power generation
GNF	–	Graphitic carbon Nano-Fiber
HEHP	–	High-Energy-High-Pressure
IC	–	Internal Combustion
ICDD	–	International Centre for Diffraction Data
IIT-Kh	–	Indian Institute of Technology, Kharagpur
IIT-M	–	Indian Institute of Technology, Mumbai
ISRO	–	Indian Space Research Organization
JMA	–	Johnson-Mehl-Avrami
Mm	–	Mischmetal
MNRES	–	Ministry of Non-conventional and Renewable Energy Sources
MOF	–	Metal-Organic Framework

MoP	–	Ministry of Petroleum
MWNT	–	Multi-Walled Nano-Tube
NG	–	Natural Gas
NHEB	–	National Hydrogen Energy Board
NiMH	–	Nickel Metal Hydride batteries
NMR	–	Nuclear Magnetic Resonance
NPL	–	National Physical Laboratory
P & ID	–	Process and Instrumental Diagram
PCA	–	Process Control Agent
PCI	–	Pressure Composition Isotherm
PCT	–	Pressure Composition Temperature
PEM	–	Polymer Electrolyte Membrane; Proton Exchange Membrane
PLC	–	Programmable Logic Control
PTFE	–	Poly Tetra Floro Ethylene
RMM	–	Rotating Mechanical Milling
RPM	–	Round Per Minutes
SEI	–	Secondary Electron Image
SEM	–	Scanning Electron Microscope
SPL	–	Surface Passivation Layer
STP	–	Standard Temperature and Pressure
SWNT	–	Single Walled Nano-Tube
TEM	–	Transmission Electron Microscope
TERI	–	The Energy Resource Institute
TM	–	Transition Metal
WD	–	Working Distance
XANES	–	X-Ray Absorption Near Edge Structure
XRD	–	X-Ray Diffractometer