List of abbreviations/acronym/symbols used

AAS	Atomic Absorption Spectroscopy
BET	Brunauer, Emmett and Teller
EDX	Energy Dispersive X-ray
EG	Ethylene Glycol
FESEM	Field Emission Scanning Electron Microscopy
FT-IR	Fourier Transform-Infra Red
HRTEM	High Resolution Transmission Electron Microscope
ISE	Ion Selective Electrode
i-PrOH	Isopropanol
JCPDS	Joint Committee on Powder Diffraction Studies
KV	Kilovolt
MeOH	Methanol
NMR	Nuclear Magnetic Resonance
NOSE	Nanoparticle-Catalysed Organic Synthesis Enhancement
NP	Nanoparticle
PEG	Polyethelyne Glycol
RMSE	Root Mean Square Error
SAED	Selected Area Electron Diffraction
SEM	Scanning Electron Microscopy
SAXS	Small Angle X-ray Scattering
USEPA	United States Environmental Protection Agency
W	Watt
WHO	World Health Organization
XRD	X-Ray Diffraction
ZPC	Zero Point Charge
Å	Armstrong
As(III)	Arsenic(III) species
As(V)	Arsenic(V) species
°C	Degree Celsius
GHz	Gigahertz

h	Hour
L	Litre
µg	Microgram
µL	Microlitre
µm	Micrometer
mg	Miligram
mL	Milliliter
min	Minute
mV	Millivolt
MW	Mega-Watt
nm	Nanometer
2θ	Bragg's angle
s	Second
t	Time
λ	Wavelength
wt	Weight
%	Percentage

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