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## LIST OF SYMBOLS AND ABBREVIATIONS

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<tbody>
<tr>
<td>α</td>
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<tr>
<td>C₂H₃NO₂</td>
<td>Aminoacetic acid</td>
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<tr>
<td>NH₄C₂H₃O₂</td>
<td>Ammonium acetate</td>
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<tr>
<td>(NH₄)₂CO₃</td>
<td>Ammonium carbonate</td>
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<tr>
<td>NH₄HCO₂</td>
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<tr>
<td>(NH₄)₂SO₄</td>
<td>Ammonium sulphate</td>
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<td>AR</td>
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<td>Å</td>
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<td>β</td>
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<tr>
<td>CHN</td>
<td>Carbon Hydrogen Nitrogen</td>
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<td>CRO</td>
<td>Cathode Ray Oscilloscope</td>
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<tr>
<td>cm</td>
<td>Centimeter</td>
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<td>η</td>
<td>Conversion efficiency</td>
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<td>°C</td>
<td>Degree Celcius</td>
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<td>Δ</td>
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<td>2H₂O</td>
<td>Dihydrate</td>
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<td>E</td>
<td>Electric field vector</td>
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<td>eV</td>
<td>Electron volt</td>
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<td>Eₜ</td>
<td>Energy band gap</td>
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<tr>
<td>FTIR</td>
<td>Fourier Transform Infrared</td>
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<tr>
<td>ν</td>
<td>Frequency</td>
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<tr>
<td>ω</td>
<td>Frequency</td>
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<tr>
<td>FWHM</td>
<td>Full Width Half Maximum</td>
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</table>
\( \gamma \) - Gamma

\( g \) - Gram

7H\(_2\)O - Heptahydrate

HPLC - High performance liquid chromatography

h - Hour

P - Induced polarization

ICP-OES - Inductively Coupled Plasma Optical Emission Spectrometry

IR - Infrared

\( \alpha, \beta \) and \( \gamma \) - Interfacial angles

K - Kelvin

Kg - Kilogram

\( \chi^{(1)} \) - Linear susceptibility

MHz - Mega hertz

\( \mu \)m - Micrometer

\( \mu \)s - Microsecond

\( \mu \)V - Microvolt

mJ/pulse - milli Joule per pulse

mg - Milligram

mj - Millijoules

ml - Millilitre

ml/hr - Millilitre per hour

mm - Millimeter

mV - Millivolt

M - Molar

nm - Nanometer

ns - Nanoseconds

NIR - Near Infrared

Nd:YAG - Neodymium: Yttrium Aluminium Garnet
HNO₃ - Nitric acid
NLO - Nonlinear Optical
χ⁽²⁾, χ⁽³⁾ - Nonlinear susceptibility
τ - Nucleation/induction period
ω - Omega
ppm - Parts per million
cm⁻¹ - Per centimeter
% - Percentage
μ₀ - Permeability of free space
ε₀ - Permittivity of free space
PMT - Photomultiplier Tube
hν - Photon energy
KBr - Potassium bromide
KDP - Potassium Dihydogen Phosphate
SHG - Second Harmonic Generation
Na₂SO₄ - Sodium sulphate anhydrous
T - Temperature
θ - Theta
UV - Ultraviolet
a, b and c - Unit cell parameters
c - Velocity of light
νs - versus
W - Watt
λ - Wavelength
k - Wavenumber
XRD - X-ray Diffraction
C₄H₆O₄Zn - Zinc acetate
ZnSO₄ - Zinc sulphate