

## LIST OF ABBREVIATIONS AND SYMBOLS

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<b>FT-IR</b>	Fourier transforms infrared spectroscopy
<b>CHN</b>	Elemental analyzer
<b>NMR</b>	Nuclear magnetic resonance
<b>XRD</b>	X-Ray diffraction
<b>TG/DTA</b>	Thermogravimetry/Differential thermal analyzer
<b>DSC</b>	Differential scanning calorimetry
<b>EPR</b>	Electron paramagnetic resonance
<b>SQUID</b>	Superconducting quantum interference device
<b>CCD</b>	Charge-coupled device
<b>RT</b>	Room temperature
<b>LT</b>	Low temperature
<b>HT</b>	High temperature
<b>A.U.</b>	Arbitrary unit
<b>K</b>	Kelvin
<b>cm</b>	Centimeter
<b><math>\alpha</math></b>	Alpha
<b><math>\beta</math></b>	Beta
<b><math>\gamma</math></b>	Gama

## Designing and Studies on Molecular Materials

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$\delta$	Delta
$n$	Number
$\theta$	Angle
$\text{\AA}$	Angstrom
$^{\circ}$	Degree
<b>nm</b>	Nanometer
$\mu\text{m}$	Micrometer
<b>T</b>	Tesla
$T$	Temperature
<b>Oe</b>	Oersted
$\chi$	Molar magnetic susceptibility
$\chi T$	Molar magnetic susceptibility by temperature
<b>S</b>	spin quantum number mol mole
$\mu$	Magnetic dipole
<b>B</b>	Magnetic field
<b>MHz</b>	Mega hertz
<b>min</b>	Minute
<b>mg</b>	Milligram
<b>mL</b>	Milliliter

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$\mathbf{J\ g^{-1}}$	Joule per gram
$\mathbf{Z}$	Number of molecule in unit cell
$\mathbf{V}$	Volume
$\mathbf{w}$	Weak
$\mathbf{m}$	Medium
$\mathbf{s}$	Strong
$\mathbf{vs}$	Very strong
$\mathbf{ssh}$	Strong sharp
$\mathbf{vssh}$	Very strong sharp
$\mathbf{calc.}$	Calculated
$\mathbf{Anal.}$	Analysis
$\mathbf{g}$	$g$ -factor
$\mathbf{g_{  }, g_{\perp}}$	Principal values of an axial DS equatorial distance DL axial distance
$\mathbf{\mu B}$	Bohr magneton
$\mathbf{\chi'}$	Susceptibility in-phase
$\mathbf{\chi''}$	Susceptibility out-of-phase
$\mathbf{\mu_{eff}}$	magnetic moment
$\mathbf{M}$	molar magnetization

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<i>H</i>	magnetic field
$\theta$	Weiss constant
<i>C</i>	Curie constant
<b>ac</b>	Alternating current
<b>dc</b>	Direct current

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