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## LIST OF ABBREVIATIONS

<b>AD</b>	After Death
<b>AP</b>	Anterior Posterior
<b>AES</b>	Atomic Emission Spectroscopy
<b>Au</b>	Colloidal Gold
<b>AuNPs</b>	Colloidal Gold Nanoparticles
<b>B.C</b>	Before Christmas
<b>CdSe</b>	Cadmium Selenide
<b>CdS</b>	Cadmium Sulfide
<b>CdTe</b>	Cadmium Telluride
<b>CS<sub>2</sub></b>	Carbon disulfide
<b>Cm</b>	Centimeter
<b>CT</b>	Computed Tomography
<b>CST</b>	Computer Simulation Technology
<b>CM</b>	Contrast Media
<b>DNA</b>	Deoxyribonucleic acid
<b>DEI</b>	Diffraction Enhanced Imaging
<b>3D</b>	3 Dimensions
<b>DCE</b>	Dynamic Contrast Enhanced
<b>EF</b>	Electric Field
<b>EM</b>	Electron Microscope
<b>EDTA</b>	Ethylene Diaminetetra Acetic Acid
<b>FCC</b>	Face Centered Cubic
<b>FSE</b>	Fast Spine Echo
<b>FID</b>	Free Induction Decay
<b>Fe<sub>3</sub>O<sub>4</sub>NP</b>	Iron Oxide Nanoparticles
<b>Gd</b>	Gadolinium
<b>GaAs</b>	Gallium Arsenide
<b>GaN</b>	Gallium Nitride
<b>GNPs</b>	Gold Nanoparticles
<b>Gy,Gz,Gx</b>	Gradient Field that Provide Localization
<b>HCP</b>	Hexagonal Close Packed

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<b>HOCM</b>	High Osmolar Contrast Media
<b>HU</b>	Hounsfield Unit
<b>HAuCl<sub>4</sub></b>	Hydrogen Gold Chlorine
<b>InAs</b>	Indium Arsenide
<b>Inp</b>	Indium Phosphide
<b>ICP</b>	Inductively Coupled Plasma
<b>IR</b>	Inverse Recovery
<b>KeV</b>	Kilo Electron Volt
<b>KHz</b>	Kilo Hertz
<b>LOCM</b>	Low Osmolar Contrast Media
<b>MRI</b>	Magnetic Resonance Imaging
<b>MNP</b>	Magnetized Nanoparticles
<b>MGNP</b>	Mass of a Single Gold Nanoparticle
<b>MHz</b>	Mega Hertz
<b>mAs</b>	Meliamber Second
<b>ml</b>	Milliliter
<b>mg</b>	Milligram
<b>nm</b>	Nanometer
<b>NIR</b>	Near Infrared
<b>NaCl</b>	Sodium Chloride
<b>PbSe</b>	Lead Selenide
<b>PVA</b>	Poly Vinyl Alcohol
<b>PEG</b>	Polyethylene Glycol
<b>PCR</b>	Polymerase Chain Reaction
<b>PVP</b>	Polyvinylpyrrolidone
<b>PET</b>	Positron Emission Tomography
<b>R/F</b>	Radiography/Fluoroscopy
<b>RTV</b>	Room Temperature Vulcanizing
<b>SiO<sub>2</sub></b>	Silicon dioxide
<b>SPECT</b>	Single Photon Emission Computed Tomography
<b>SE</b>	Spine Echo
<b>SPGR</b>	Spoiled Gradient Echo
<b>SPIO</b>	Super Paramagnetic Iron Oxide

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<b>SPR</b>	Surface Plasmon Resonance
<b>TE</b>	Echo Time
<b>T1,T2</b>	Time of Relaxation
<b>TiO2</b>	Titanium dioxide
<b>TEM</b>	Transmission Electron Microscopy
<b>USPIO</b>	Ultra small Super Paramagnetic Iron Oxide
<b>UV</b>	Ultra Violet
<b>US</b>	Ultrasound
<b>VIS</b>	Visible
<b>VGNP</b>	Volume of a Single Gold Nanoparticle
<b>ZnSe</b>	Zinc Selenide
<b>ZnS</b>	Zinc Sulfide