Glossary of terms

SEM   Scanning Electron Microscope
TEM   Tunneling Electron Microscope
UV-VIS Ultra-Violet visible spectroscopy
TCSPC Time Correlated Single Photon Counting Technique
NZ    Nee-Zwanzig
AW    Alavi-Waldeck
VZH   Vander Zwan and Hynes
SED   Stokes-Einstein-Debye
AuNP's Gold Nanoparticles
AgNP's Silver Nanoparticles
GNP's  Gold Nanoparticles
SPR   Surface Plasmon Resonance
Å     Angstrom (1 Å = 10^{-10} m)
nm    nano metre (1nm = 10^{-9} m)
µg    Ground state dipole moment
µe    Excited state dipole moment
KAT   Kamlet-Abboud-Taft
KTZ   Katritzky
<σ>   Fluorescence anisotropy
$E_r^N$ Normalised solvent polarity parameter
$E_r(30)$ Solvent polarity parameter
Φ     Angle between ground and excited state dipole moment
ε     Dielectric constant of the solvent
n     Refractive index of the solvent
ICT   Intra molecular charge transfer
TICT  Twisted intra molecular charge transfer
τf    Fluorescence life time
τr    Reorientation time