

Table S1: Comparative summary of ZnO properties

Plant Source	Morphology	Size (Average / Range)	Applications	Refs
<i>Elaeagnus angustifolia</i>	Spherical	26 nm	Vitro biological	18
<i>Pistia stratiotes</i>	Spherical, flower-like, sheet-like	37 nm	Anticancer and antibacterial	19
<i>Acacia caesia</i>	Spherical	32 nm	Photocatalytic and Antimicrobial Activities	20
<i>Allium Sativum</i>	Spheroidal	30–40 nm	photocatalytic activity	21
<i>Moringa oleifera</i>	Spherical	9-18 nm	Photocatalytic activity	22
<i>Cayratia pedata</i>	agglomerated form	52.24 nm	Enzyme immobilization	23
<i>Melia azedarach</i>	Spherical	47.5 nm	Antibacterial activity	24
<i>Hylocereus undatus cladode</i>	flake-like morphology	50–100 nm	Dielectric applications	25
<i>Ocimum tenuiflorum</i>	Spherical	19 nm	Metal ions adsorption	26
<i>Retama raetam</i>	Spherical / Hexagonal	24-27 nm	VOC Sensing	This work