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LIST OF ABBREVIATIONS

°C	Degree Celsius
nm	Nanometer
µm	Micrometer
cm	Centimeters
ml	Milliliter
h	Hour
sec	Second
λ	Wavelength
α	Alpha
β	Beta
γ	Gamma
Å	Angstrom
TMOs	Transition Metal Oxides
PL	Photoluminescence
SEM	Scanning Electron Microscopy
TEM	Transmission Electron Microscopy
XRD	X-ray Diffraction
JCPDS	Joint Committee on Powder Diffraction Standards

STATEMENT OF ORIGINALITY

1. A new methods to synthesize transition metal oxide (TMO), CuO and ZnO, on metal plates which are low cost, low temperature and different from the reported.

2. Investigate the optical properties and application, especially antibacterial activity of as-synthesized CuO and ZnO.