

**Dual catalytic activity of hexagonal Mg-Sr co-doped ZnO nanocrystals for degradation
of industrial levafix olive reactive dye under sunlight and sensor applications**

Sanakousar. F. M¹, Vidyasagar. C. C^{1*}, Shikandar. D. B^{2*}, Mounesh³, Viswanatha. C. C⁴,

Gururaj Hosamani⁵, Prakash. K⁶, Manjunath. N. K⁷

¹Department of PG Studies and Research in Chemistry, Rani Channamma University,
Belagavi-591156 Karnataka, India.

²Department of Chemistry, K.L.E. Institute of Technology, Hubli-580030, Karnataka, India.

³Centre for Nano and Materials Science, Jain Global Campus, Bangalore-562112, Karnataka,
India.

⁴Department of Chemistry, J.S.S Arts, Science & Commerce College, Gokak-591307, India

⁵Department of Electronics, Government First Grade College, Channarayapatna, Hassan,
India

⁶Department of Environmental Science, Gulbarga University, Kalaburgi-585106, Karnataka,
India.

⁷Department of PG Studies and Research in Geography, Rani Channamma University,
Belagavi-591156 Karnataka, India.

(Email: vidya.891@gmail.com Cell No.: +91-9742885912)

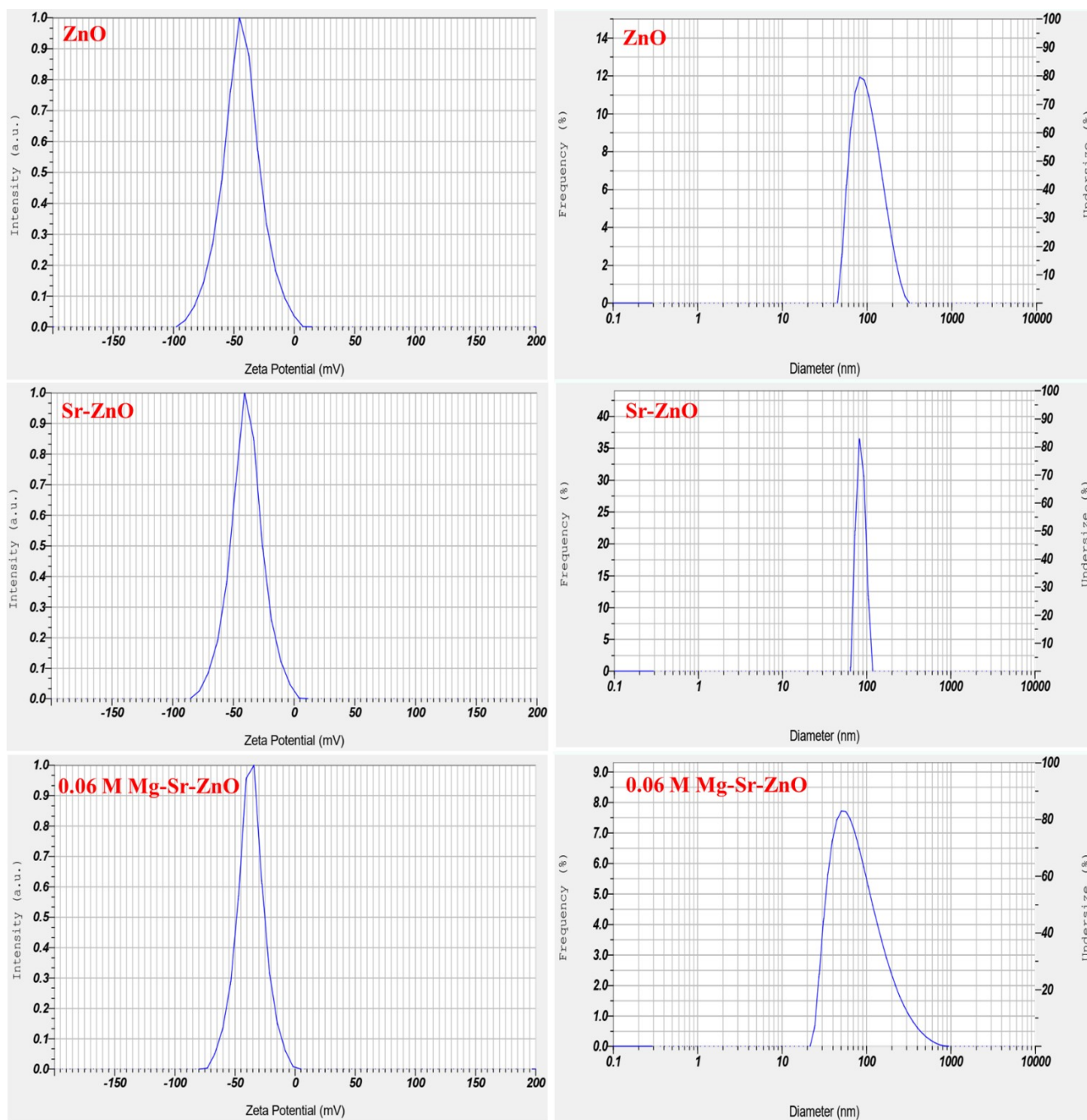


Figure S1. Zeta potential and DLS measurements of the nanocrystals.

Table S1. Zeta potential and mean particle size of prepared nanocrystals.

Sample	Zeta potential (mV)	Mean particle size (nm)
ZnO	-43.8	100.8
Sr-ZnO	-39.2	81.1
0.06 M Mg-Sr-ZnO	-36.9	90.4