Supplementary document

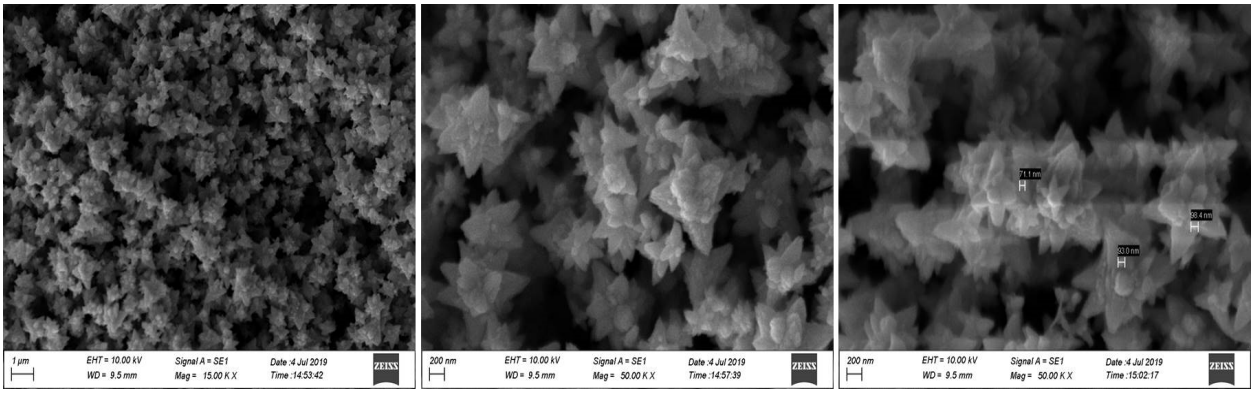


Figure S1: SEM Images of obtained for ZnO NPs/TPL at magnitudes of 15,000 and 50,000 at 10 000 kV.

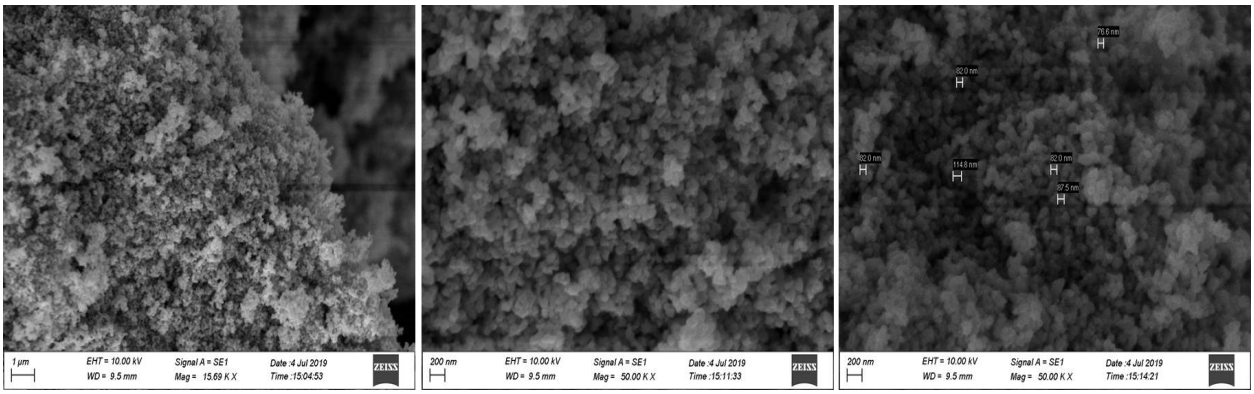


Figure S2: SEM Images of obtained for ZnO NPs/TPS at magnitudes of 15,000 and 50,000 at 10 000 kV.

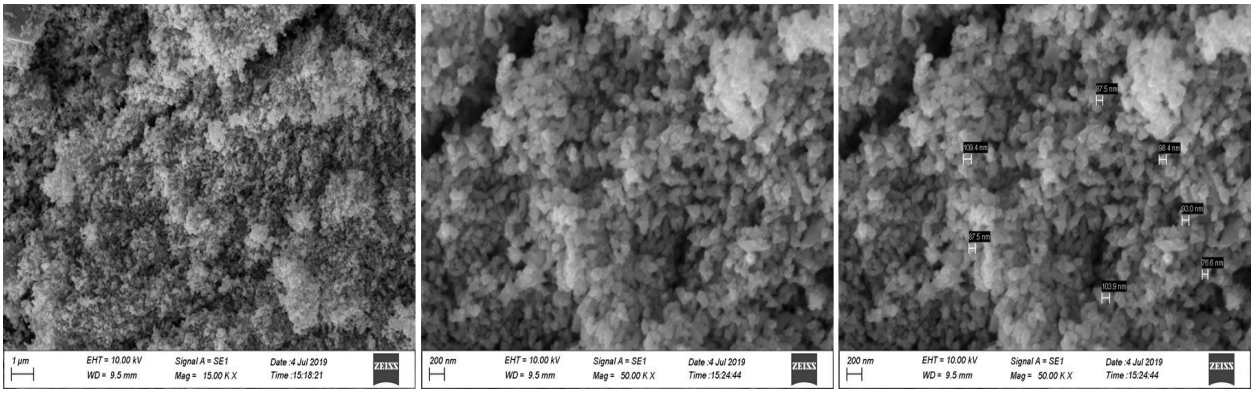


Figure S3: SEM Images of obtained for ZnO NPs/TPF at magnitudes of 15,000 and 50,000 at 10 000 kV.

Supplementary document

Table S1: Crystal size calculated for ZnO NPs/TPS using Debye-Scherrer's formula

2θ	hlk	FWHM	D (nm)
31.75	(100)	0.30	28.63
34.39	(002)	0.22	27.35
36.19	(101)	0.35	25.01
47.57	(102)	0.88	39.28
56.58	(110)	0.70	13.44
62.83	(103)	0.55	12.12
67.88	(112)	0.44	21.50
69.01	(201)	0.54	18.18

Table S2: Crystal size calculated for ZnO NPs/TPF using Debye-Scherrer's formula

2θ	hlk	FWHM	D (nm)
31.75	(100)	0.36	24.04
34.39	(002)	0.32	34.52
36.19	(101)	0.40	21.62
47.57	(102)	0.61	14.78
56.58	(110)	0.49	19.26
62.83	(103)	0.80	12.12
67.88	(112)	0.50	18.87
69.01	(201)	0.61	15.96