

Electronic Supplementary Information (ESI) †

A simple, room temperature, solid-state synthesis route for metal oxide nanostructures

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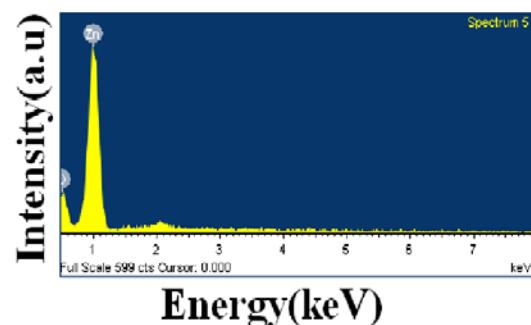
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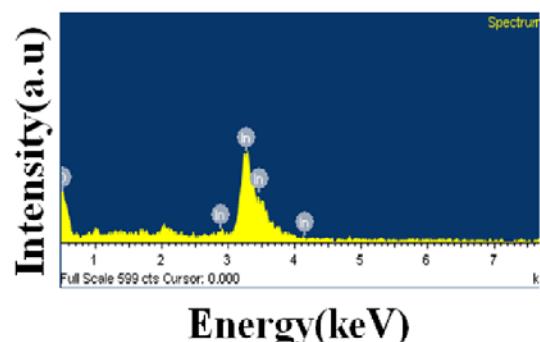
A)

Element	Weight%	Atomic%
O K	23.55	55.72
Zn L	76.45	44.28
Totals	100.00	



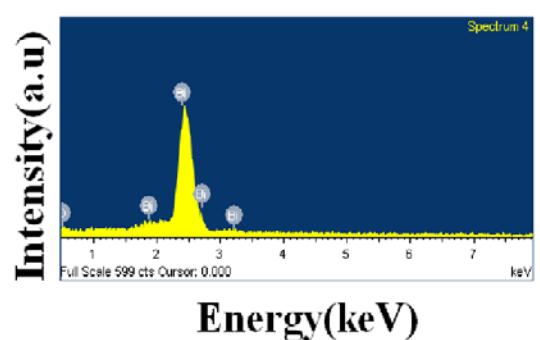
B)

Element	Weight%	Atomic%
O K	45.56	85.73
In L	54.44	14.27
Totals	100.00	



C)

Element	Weight%	Atomic%
O K	10.85	61.38
Bi M	89.15	38.62
Totals	100.00	



D)

Element	Weight%	Atomic%
O K	25.43	71.67
Sn L	74.57	28.33
Totals	100.00	

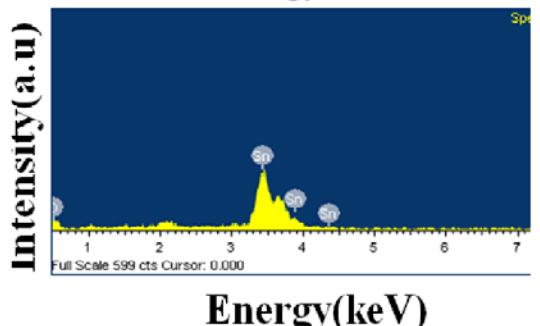


Figure S1. Energy-dispersive X-ray spectroscopy (EDX) data of MO photoanodes. A) ZnO, B) In₂O₃, C) Bi₂O₃ and D) SnO₂.

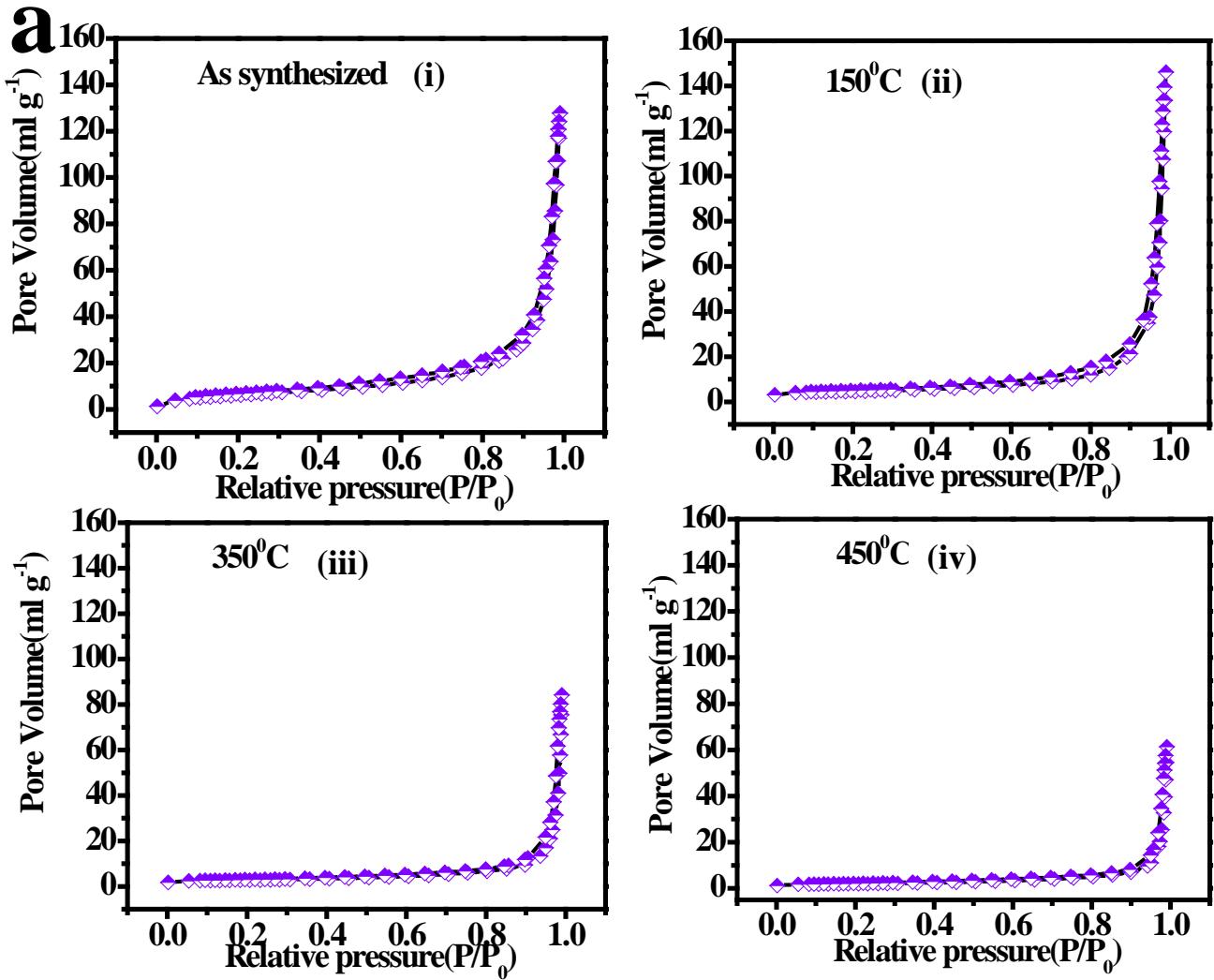


Figure S2. (a) N₂ adsorption-desorption isotherms of the ZnO photoanode thermally treated at various temperatures.

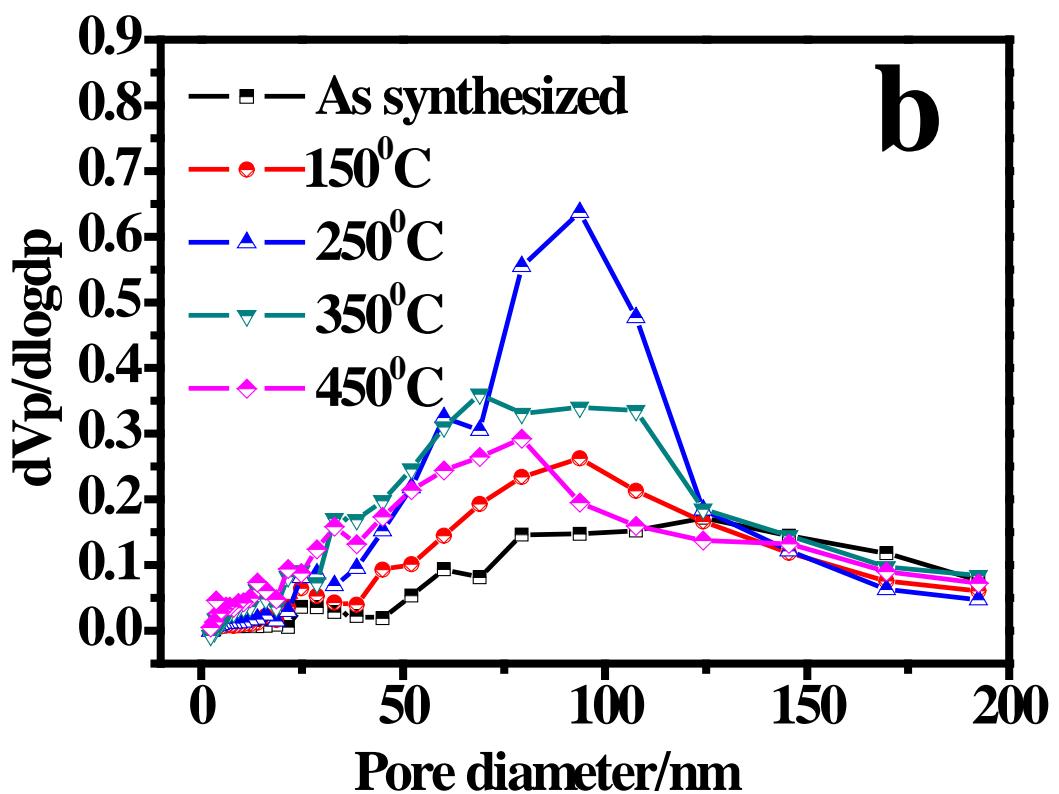


Figure S2. (b) Barrett–Joyner–Halenda pore-size distribution of ZnO determined from the N₂ adsorption branch isotherm.

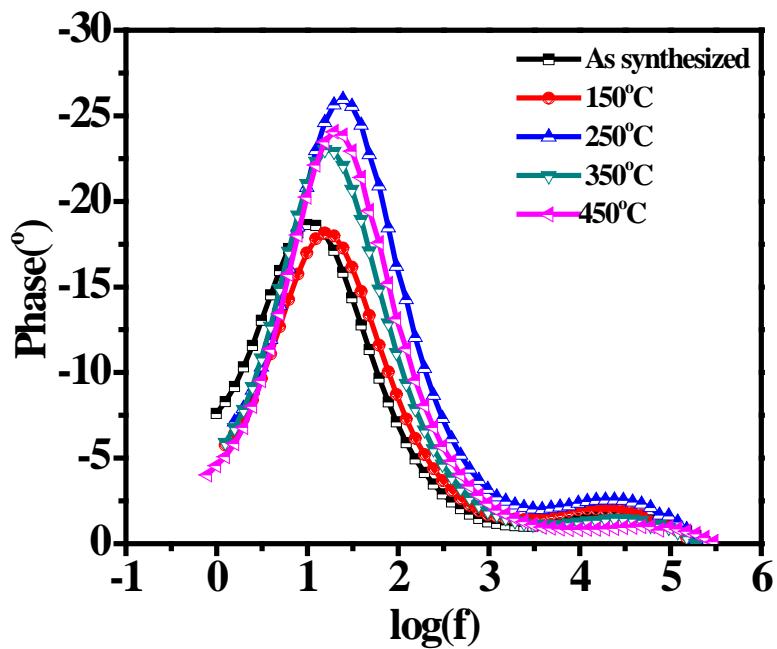


Figure S3. Bode phase plots of ZnO nanoplates photoanode thermally treated at various temperatures.

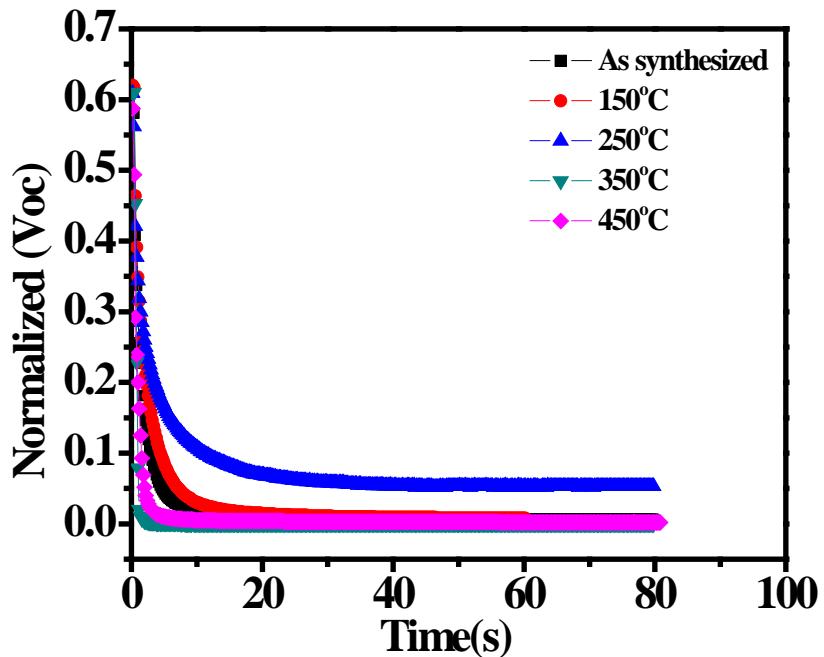


Figure S4. Photovoltage decay transient curves of ZnO photoanode treated at various temperatures.