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Title: Doping effect of In₂O₃ on structural and ethanol-sensing characteristics of ZnO nanotubes fabricated by electrospinning

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Highlights

IZO nanotubes with various indium contents were synthesized by electrospinning.

A well-crystallized indium-zinc-oxide solid solution formed in IZO-0.01 nanotubes.

Amorphous In_2O_3 segregated at ZnO grain boundaries at high indium doping levels.

IZO-0.01 nanotubes show a high response and good selectivity to ethanol at 275 °C.

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