

Supplemental information:

Fig.S1 Brief schematic diagram of synthetic route of Co_3O_4 nanostructures

Fig.S2 Typical cross-section view SEM images of (a) Co_3O_4 NSs, (b) Co_3O_4 NPs and (c) Co_3O_4 NCs

Fig.S3 Mott-Schottky plots of Co_3O_4 nanostructures

Fig.S4 Band gap of Co_3O_4 nanostructures

Fig.S5 Brief schematic diagram of synthetic route of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions

Fig.S6 Mott-Schottky plots of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions

Fig.S7 Band gap of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions



Fig.S1 Brief schematic diagram of synthetic route of Co_3O_4 nanostructures

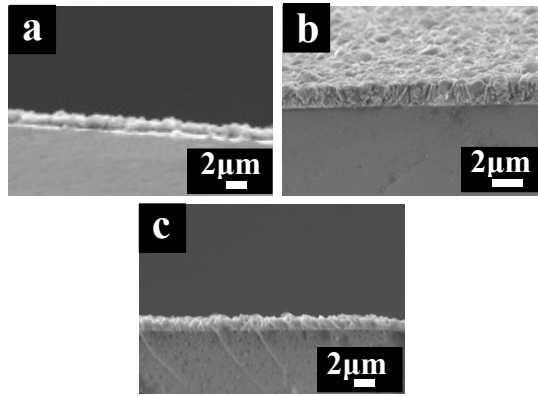


Fig.S2 Typical cross-section view SEM images of (a) Co₃O₄ NSs, (b) Co₃O₄ NPs and (c) Co₃O₄ NCs

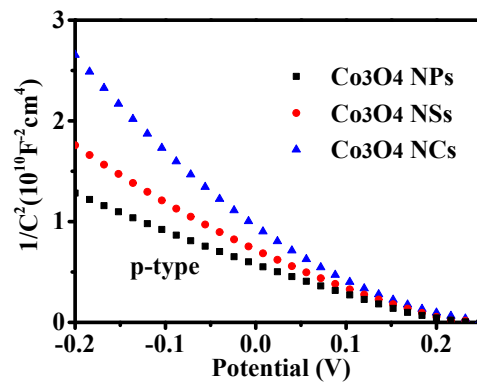


Fig.S3 Mott-Schottky plots of Co₃O₄ nanostructures

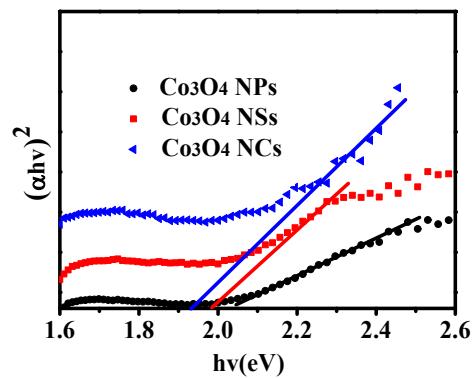


Fig.S4 Band gap of Co₃O₄ nanostructures



Fig.S5 Brief schematic diagram of synthetic route of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions

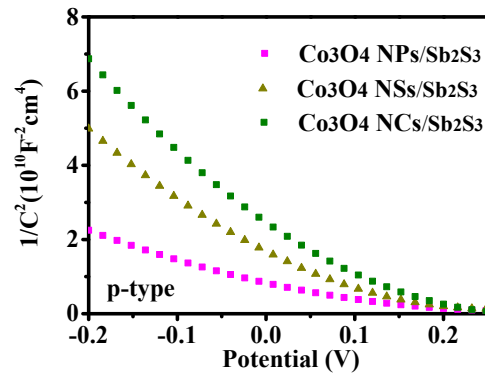


Fig.S6 Mott-Schottky plots of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions

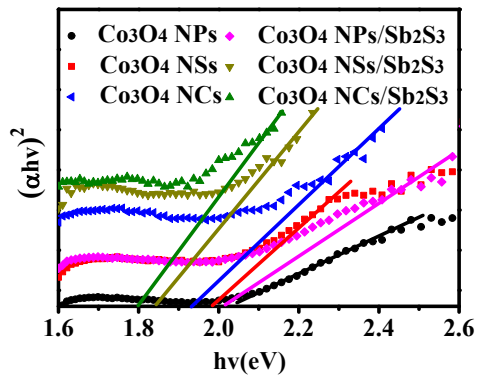


Fig.S7 Band gap of $\text{Co}_3\text{O}_4/\text{Sb}_2\text{S}_3$ heterojunctions