Electronic Supplementary Material (ESI) for RSC Advances.

Electronic Supplementary information (ESI)

Fig. S1. Design of a gas sensor by drop-cast of an ethanol dispersion of Ni-KGM composites on aninterdigitated Pt electrode substrate followed by heating under air to form a porous NiO nanoplate layer-deposited electrode, (b) Photo of gas testing chamber for gas sensing measurement, and (c) Diagram of the working system of gas sensor.

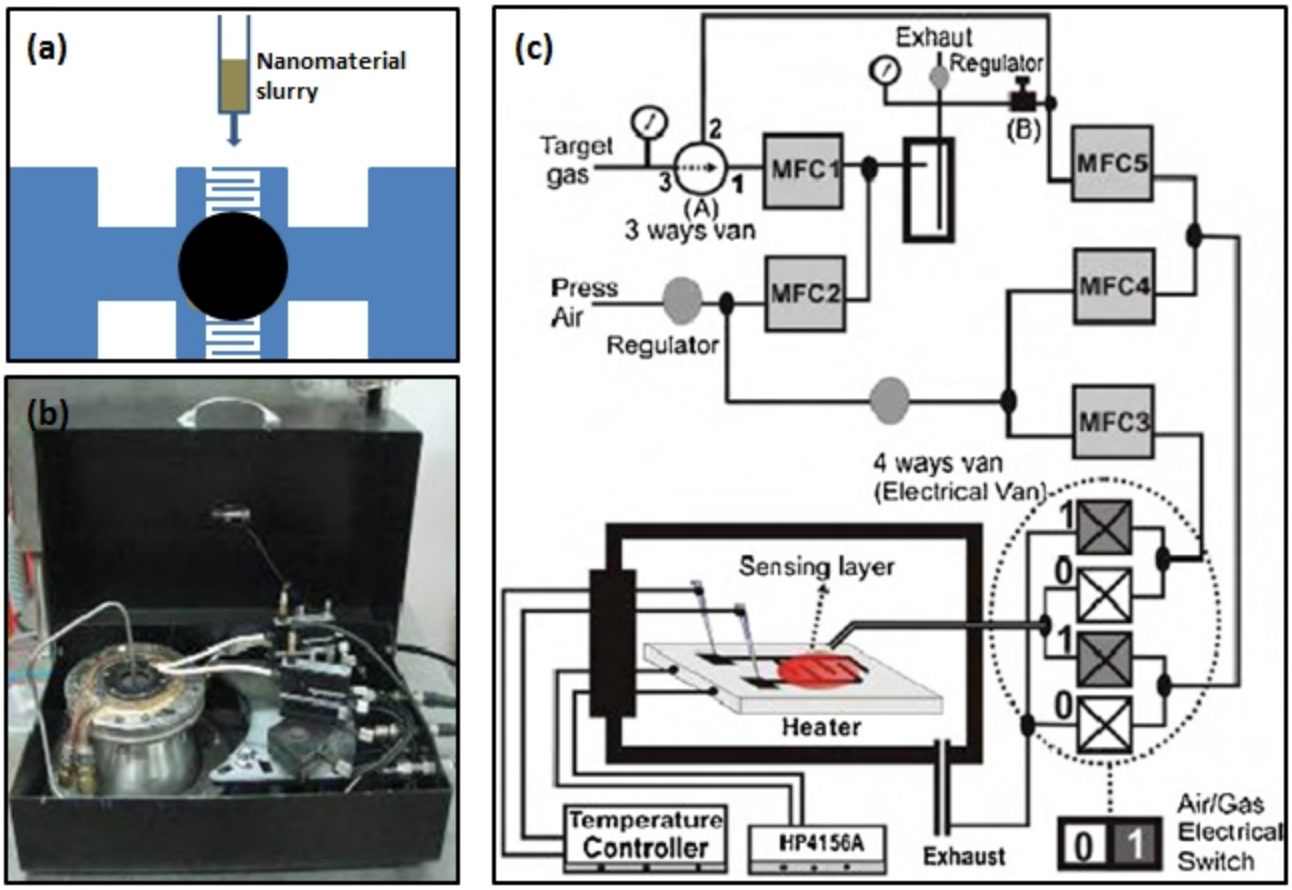

Fig. S2. Low magnification SEM image of konjac glucomannan (a) and high magnification SEM image of porous NiO nanoplates.

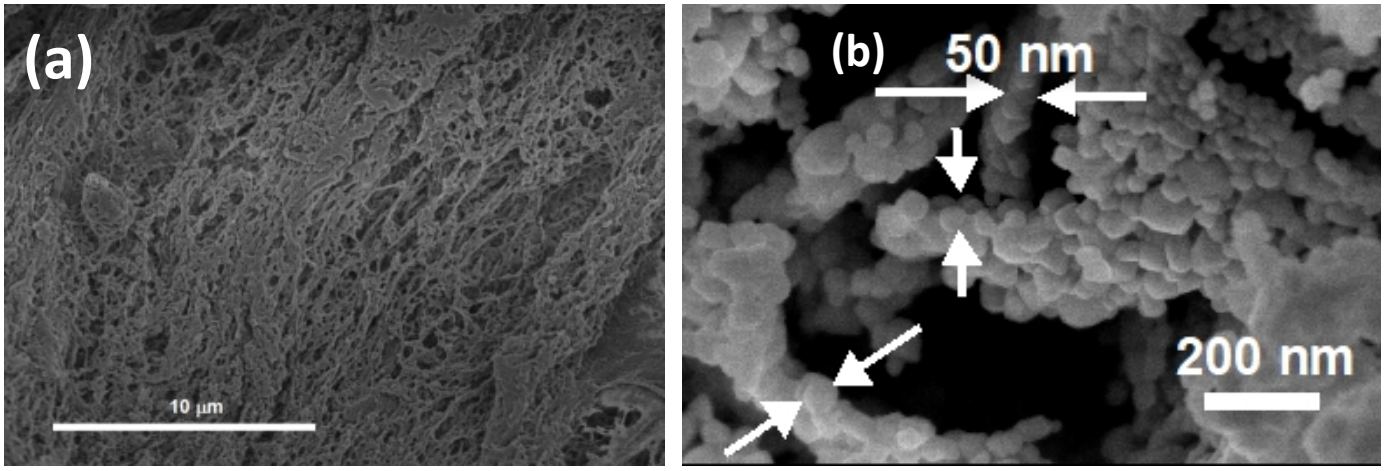

Fig. S3. Photograph of Ni-KGM composites.

Fig. S4. XRD pattern of KGM.

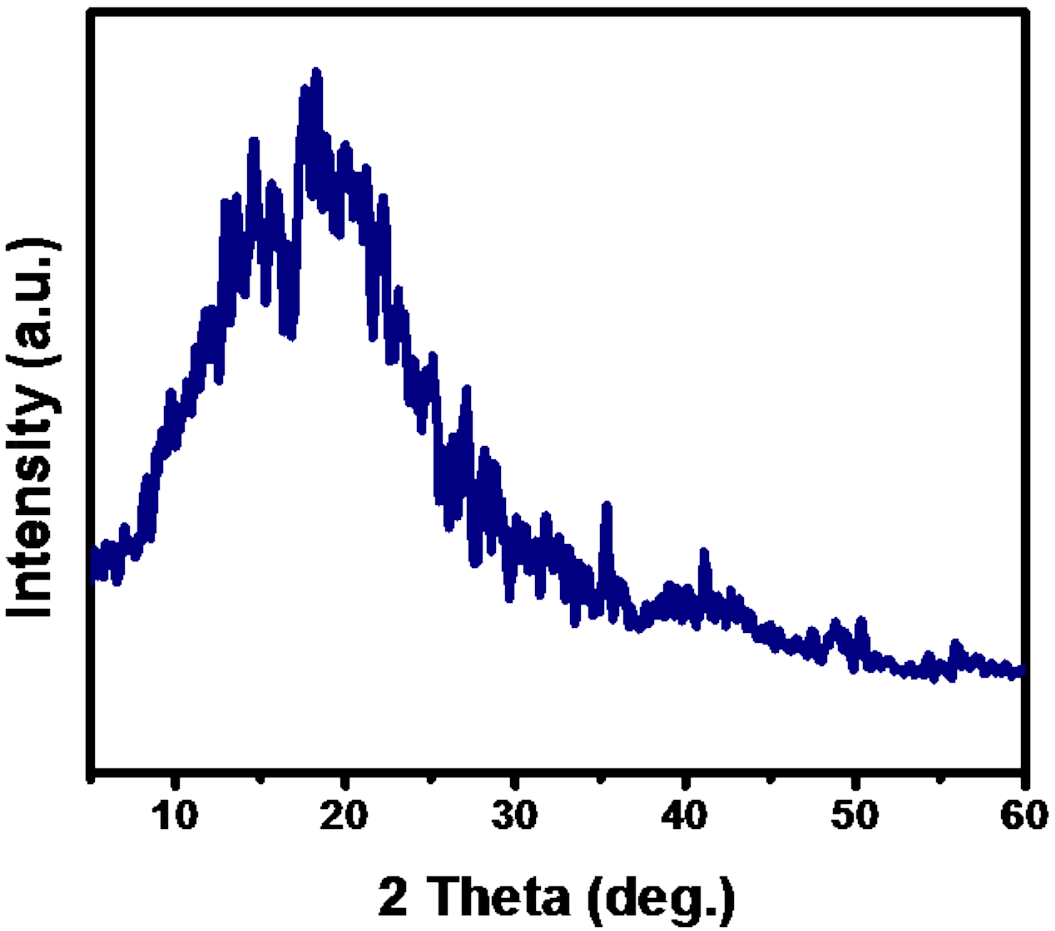

Fig. S5. Response and recovery times of the NiO nanoplate sensors toward 1 ppm of H_2S (b) and recovery times of the NiO nanoplate sensors toward higher concentrations of H_2S (b) at optimum temperature.