Supporting Information for Gas sensing properties of nanocrystalline diamond at room temperature

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Additional AFM and XRD experimental results

![AFM surface topography of the deposited NCD-coated sensor substrate: (a) with separation of 200 µm and nucleation time of 40 min (b) with separation of 50 µm and seeding time of 40 min, and (c) with separation of 50 µm and nucleation time of 2 min.]

**Figure S1:** AFM surface topography of the deposited NCD-coated sensor substrate: (a) with separation of 200 µm and nucleation time of 40 min (b) with separation of 50 µm and seeding time of 40 min, and (c) with separation of 50 µm and nucleation time of 2 min.
**Figure S2**: XRD patterns of sensor substrates covered with H-terminated diamond.