

Supplementary

# Laser-Induced Graphene-Based Gas Sensor with PE-DOT:PSS/Gold–Platinum Nanocomposites for Highly Sensitive Detection of Methane

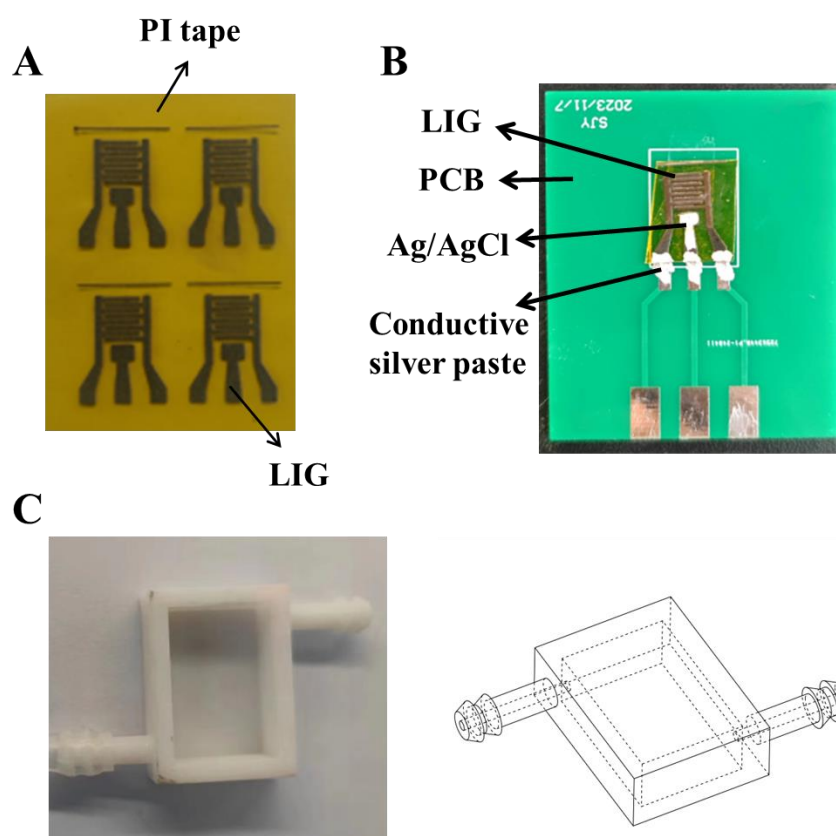
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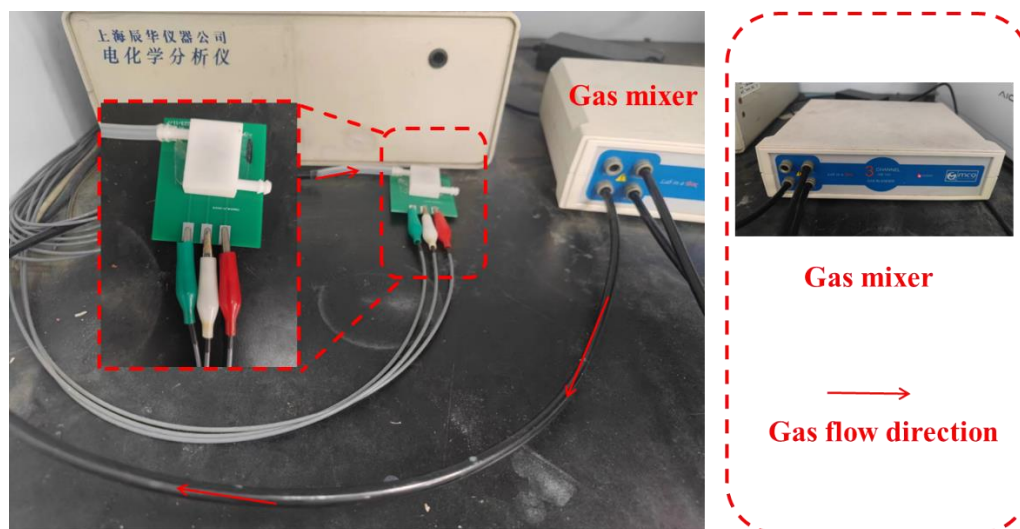
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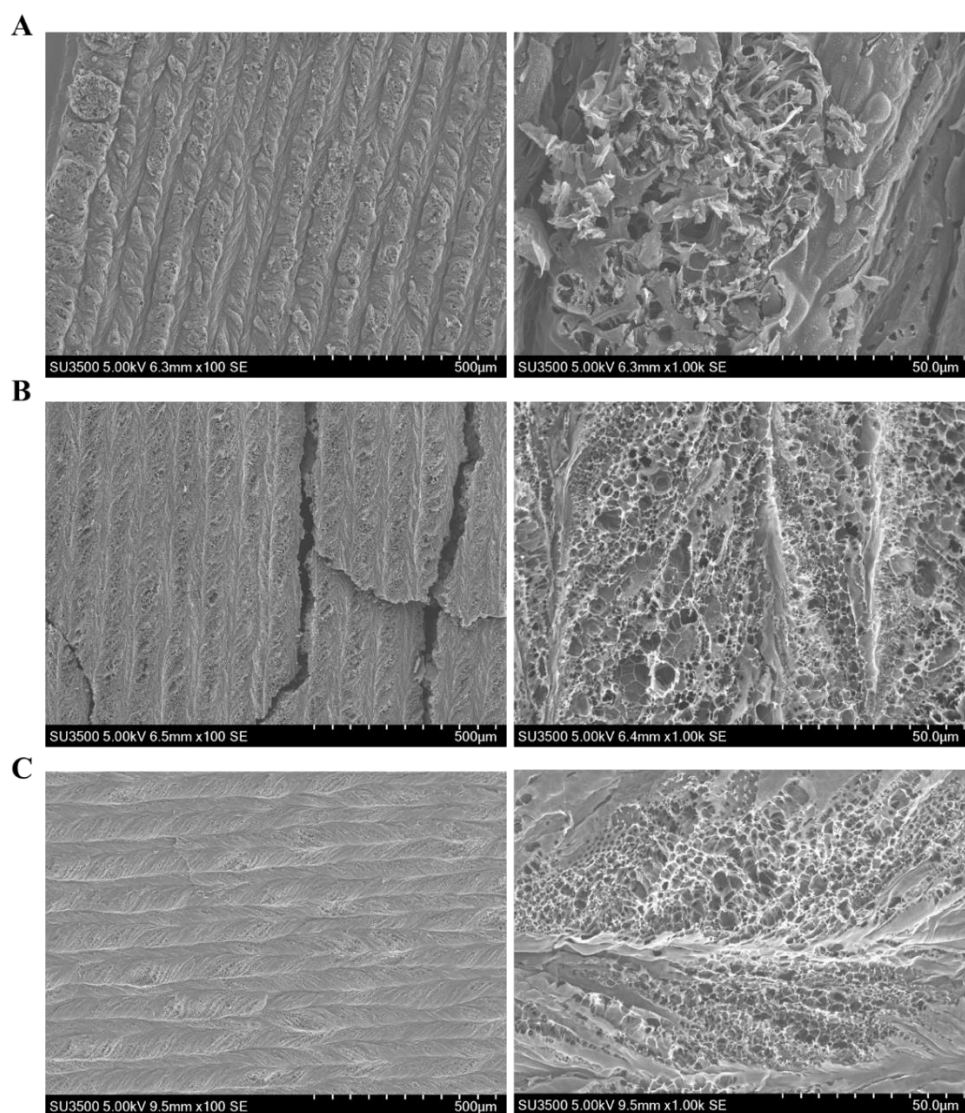
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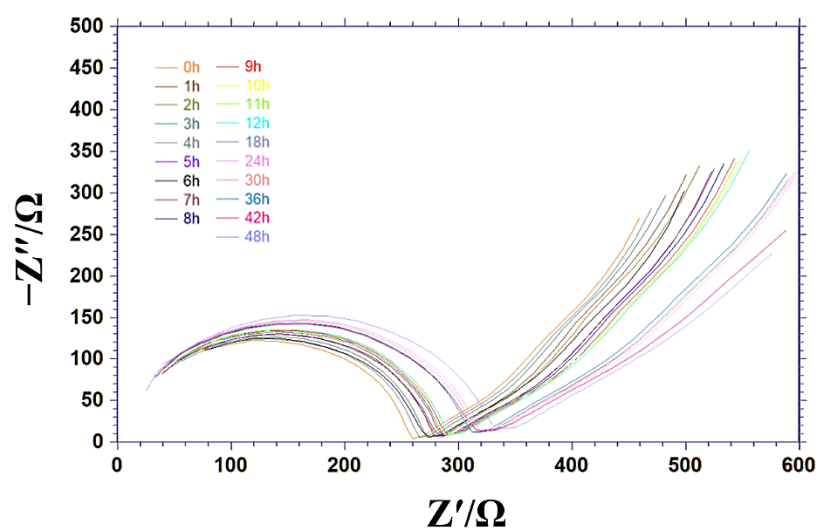
**Figure S1.** Electrode and gas chamber diagram. (A) Figure of LIG electrode; (B) figure of LIG electrode pasted to PCB board; (C) physical diagram and design drawing of gas chamber.



**Figure S2.** The connection diagram of each part.



**Figure S3.** Effect of different laser power levels on LIG electrode surface: (A) underpower; (B) overpower; (C) suitable power.



**Figure S4.** The original EIS data graph.