

Supporting Information

Uniformly dispersed platinum nanoparticles over nitrogen-doped reduced graphene oxide as efficient electrocatalyst for oxygen reduction reaction

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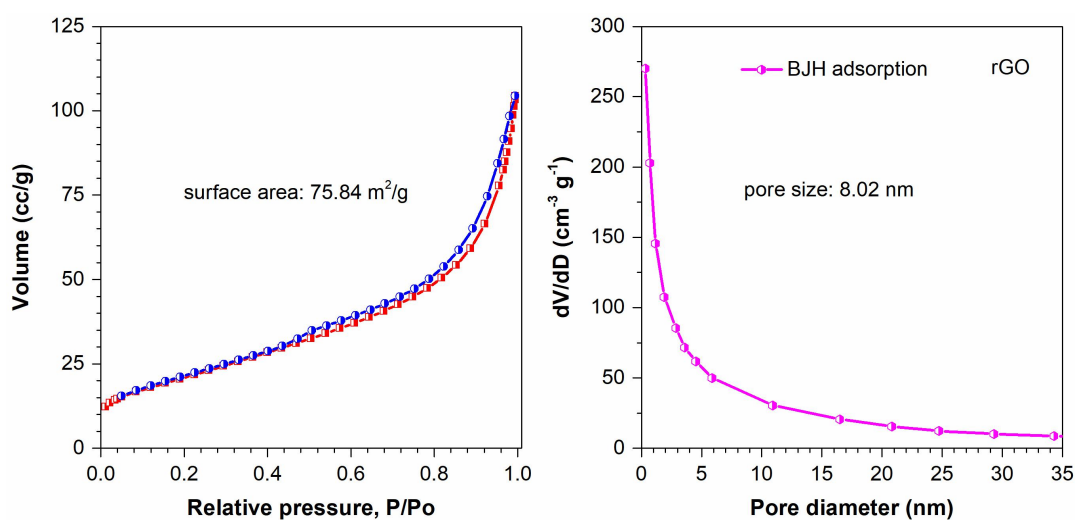


Fig. S1. N₂ adsorption-desorption isotherms of rGO hybrids together with its pore size distributions (PSD) curve.

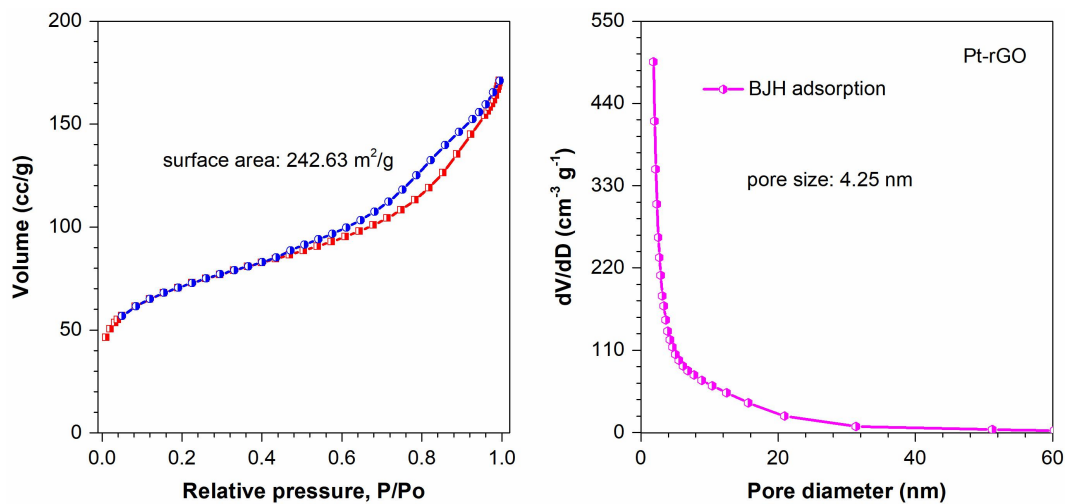


Fig. S2. N₂ adsorption-desorption isotherms of Pt-rGO hybrids together with its PSD curve.

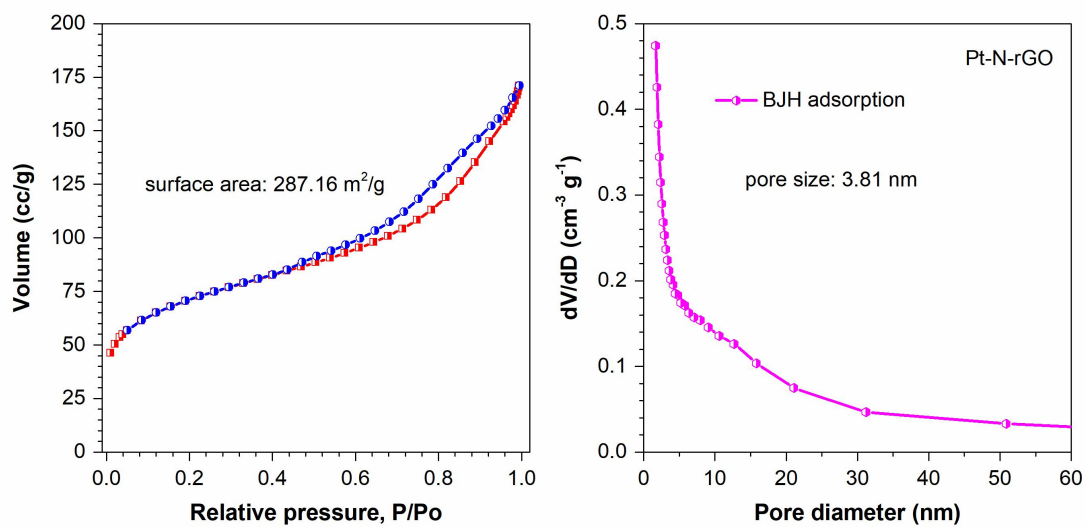


Fig. S3. N₂ adsorption-desorption isotherms of Pt-N-rGO hybrids together with its PSD curve.

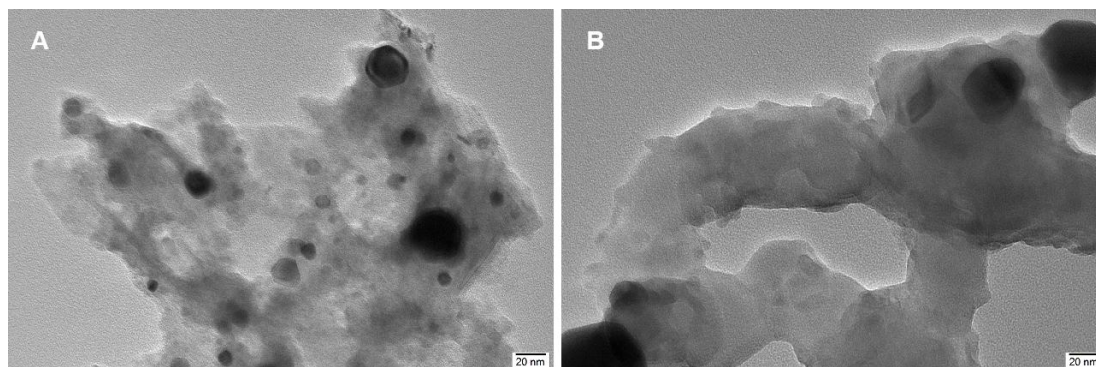


Fig. S4. (A, B) TEM images of Pt-rGO and Pt-N-rGO hybrids.

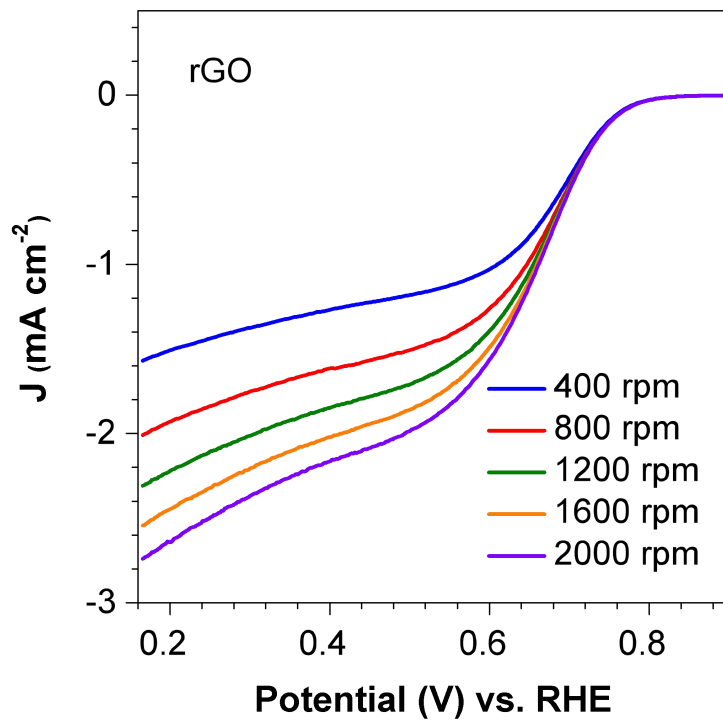


Fig. S5. LSVs of rGO hybrids at different rotation speed recorded in O₂-saturated 1 M KOH solution at a scan rate of 10 mV s⁻¹.

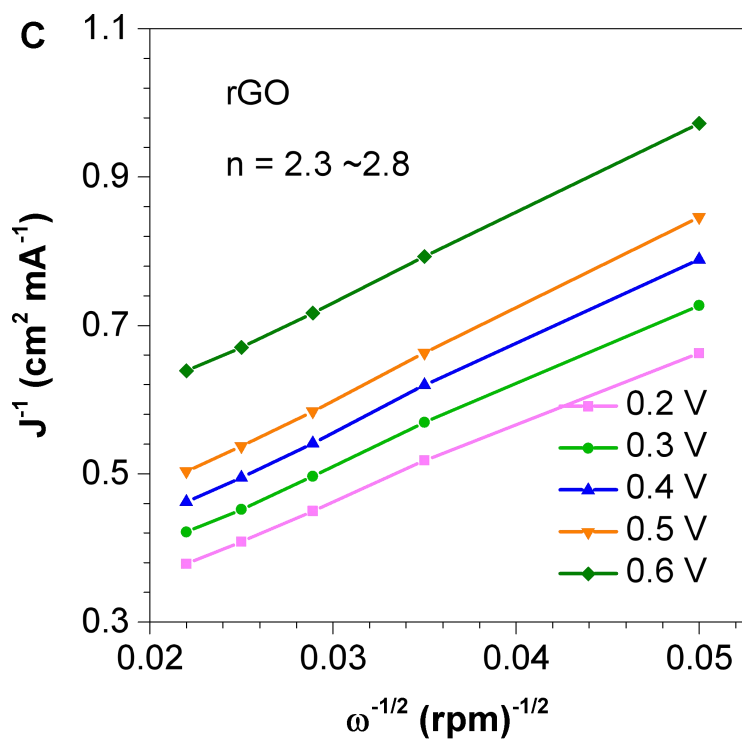


Fig. S6. The corresponding Koutecky-Levich plot of rGO derived from the RDE curves at 0.2-0.6 V with the electron transport number (n).

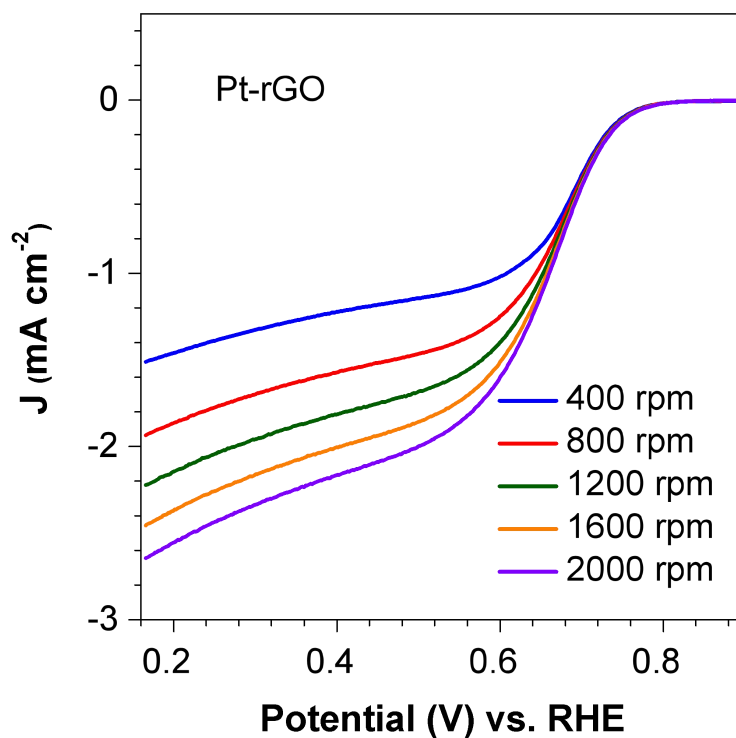


Fig. S7. LSVs of Pt-rGO hybrids at different rotation speed recorded in O_2 -saturated 1 M KOH solution at a scan rate of 10 mV s^{-1} .

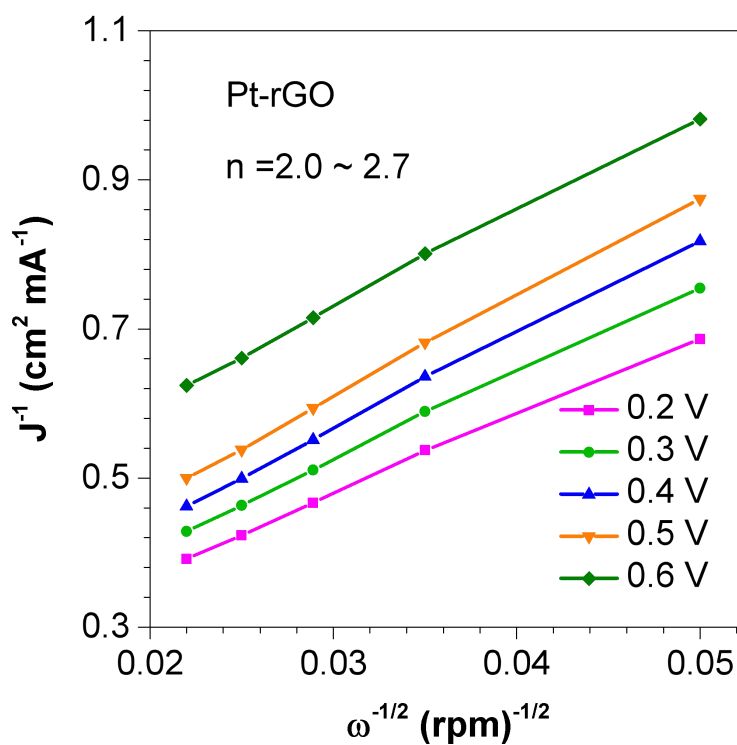


Fig. S8. The corresponding Koutecky-Levich plot of Pt-rGO derived from the RDE curves at 0.2-0.6 V with the n .

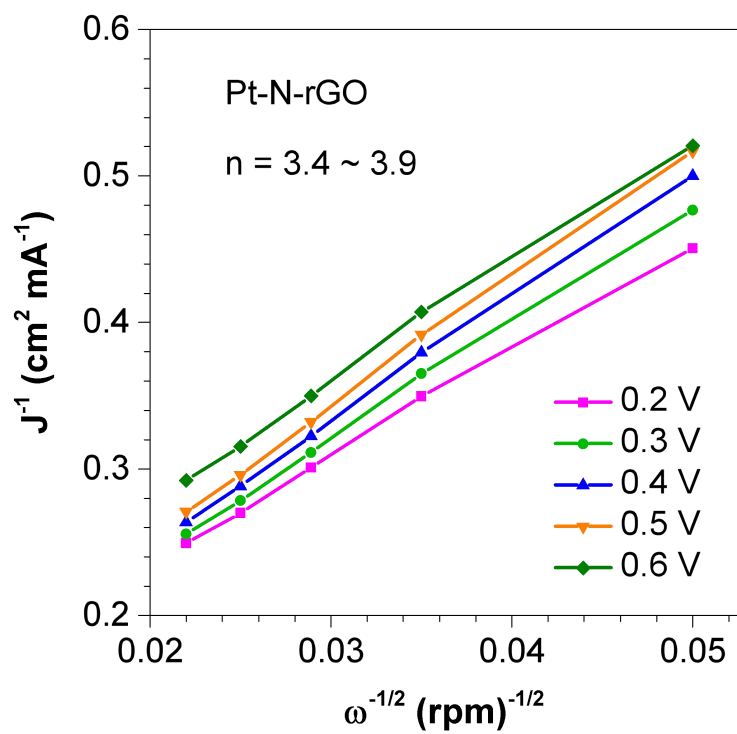


Fig. S9. The corresponding Koutecky-Levich plot of Pt-N-rGO derived from the RDE curves at 0.2-0.6 V with the n.