

Supporting information

Immobilization of water insoluble iridium complex with organosilica nanoparticles for electrochemiluminescence sensing

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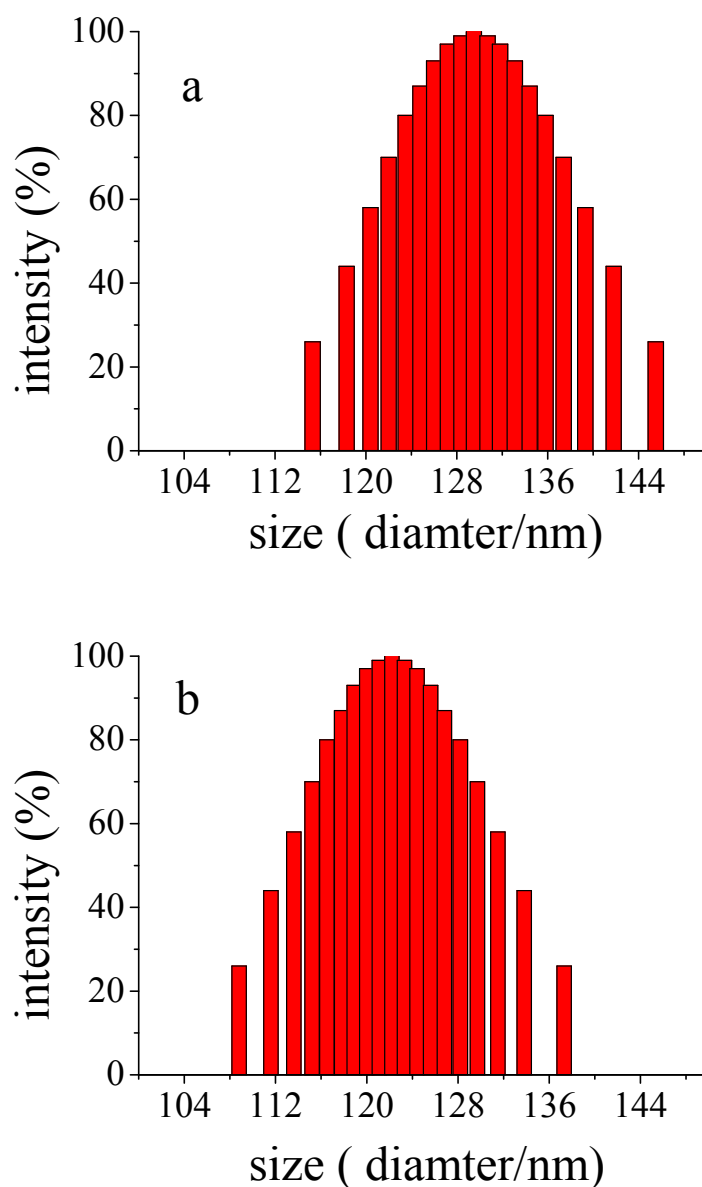


Fig. S1 Dynamic Light Scattering measurement of Ir(pq)₂(acac)@OSiNPs

(4ORM2E4C), **a**: organic silicon nanoparticles loaded with Iridium complex; **b**: organic silicon nanoparticles unloaded with Iridium complex.

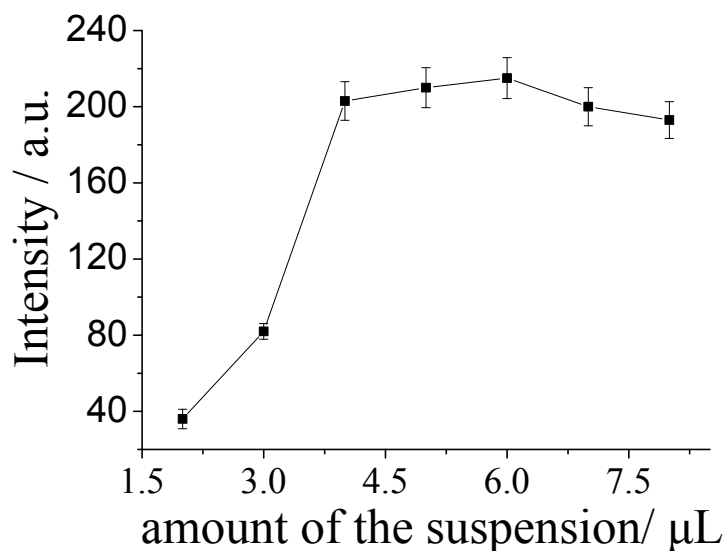


Fig. S2 Influence of the amount of $\text{Ir}(\text{pq})_2(\text{acac})@\text{OSiNPs}$ application on the electrode to the ECL response. The experiments were carried out in phosphate buffer solution (pH 8.0), containing $10 \mu\text{mol} \cdot \text{L}^{-1}$ DBAE.

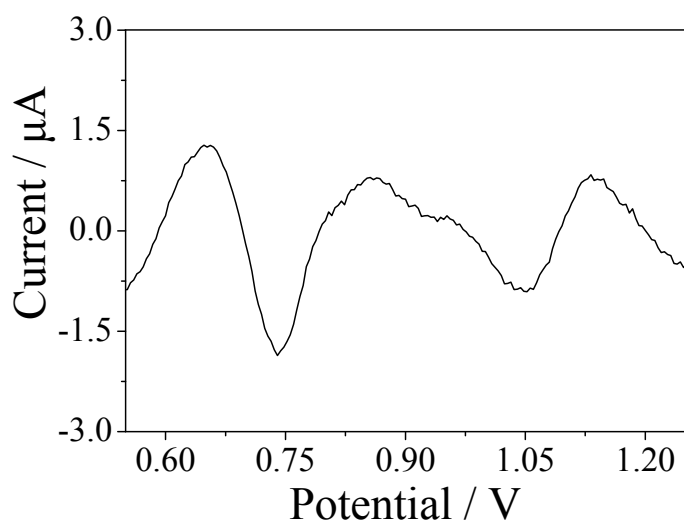


Fig. S3 The DPV of the $\text{Ir}(\text{pq})_2(\text{acac})@\text{OSiNPs}$ (3ORM2P4C) modified electrode in the phosphate buffer solution of DBAE. The concentration of DBAE was

$1.0 \times 10^{-4} \text{ mol} \cdot \text{L}^{-1}$.

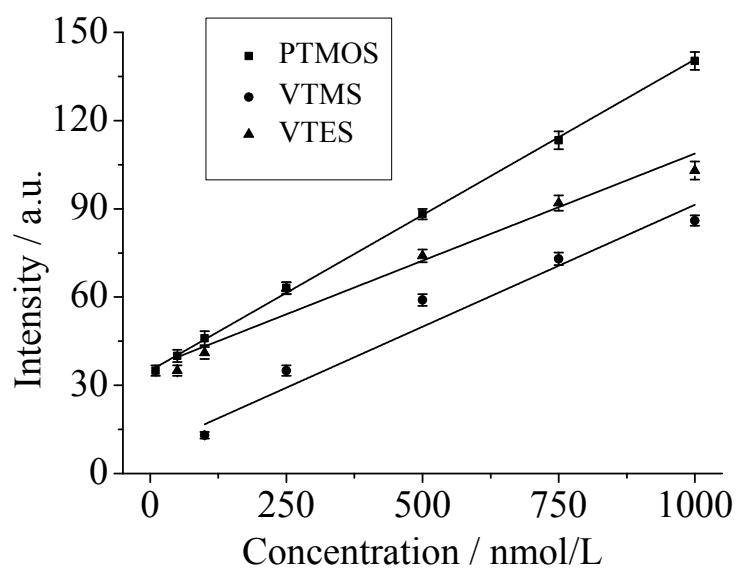


Fig. S4 The linear calibration curves obtained with the $\text{Ir}(\text{pq})_2(\text{acac})@\text{OSiNPs}$ modified electrode by using different organosilane precursors.