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Title: Self-constructed carbon nanoparticles-coated porous biocarbon from plant moss as advanced oxygen reduction catalysts

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1 **Self-constructed carbon nanoparticles-coated porous biocarbon from plant**
2 **moss as advanced oxygen reduction catalysts**

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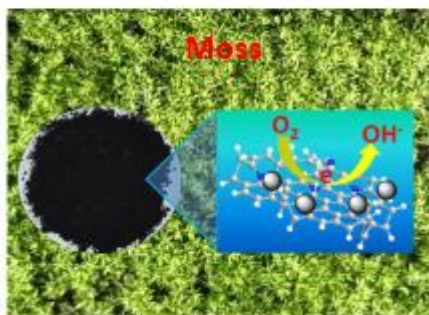
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17 **Graphical abstract**



18 **Highlights**

- 19 ■ A novel CNPs-coated carbon is prepared via heat treatment of plant moss.
20 ■ The prepared carbon shows a great ORR catalytic efficiency and stability.
21 ■ The MFC with the prepared electrocatalyst outperforms the MFC with the Pt/C.
22 ■ A new approach is reported to produce nanostructured carbon from natural resources.
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