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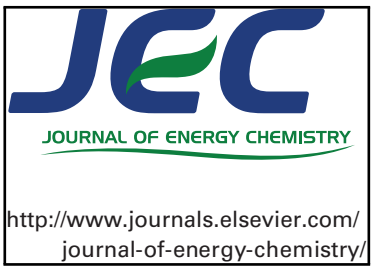

Environment friendly hydrothermal synthesis of carbon-Co_3O_4 nanorods composite as an efficient catalyst for oxygen evolution reaction

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Highlights

- Simple and scalable method was developed for carbon-Co_3O_4 nanorods synthesis.
- The elemental mapping of C-Co_3O_4-NRs demonstrate that the carbon distribution on the surface of nanorod is uniform.
- C-Co_3O_4-NRs gave lowest onset potential (0.35 V) and Tafel slope (53 mV/decade).
- The C-Co_3O_4-NRs catalyst displays better stability in alkaline solution.

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