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Superhydrophobic Sponge under Ventilation: A Novel Approach for Corrosion Inhibition

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# Highlights

- Superhydrophobic sponge is prepared by grafting the hydrophobic moiety.
- Superhydrophobic sponge drastically alleviates immersion corrosion.
- Ventilated superhydrophobic sponge is confirmed to prohibit corrosion for steel.

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