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Title: Preparation of Phosphonic Acid Functionalized Graphene Oxide-modified Aluminum Powder with Enhanced Anticorrosive Properties

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Highlight

- Aluminum powder was modified with GO using $\text{NH}_2\text{-CH}_2\text{CH}_2\text{CH}_2\text{-PO(OH)}_2$ as link agent.
- GO nanosheet uniformly and tightly covered the surface of flaky aluminum particle.
- GO modified aluminum powder possessed much better corrosion resistance.

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