

## Accepted Manuscript

Title: Anti-corrosion layer prepared by plasma electrolytic carbonitriding on pure aluminum

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### Highlights

1. PEC/N can be applied to low melting point metal.
2. The spectroscopic characterization of plasma discharge is investigated.
3. Electron concentration and electron temperature are evaluated for PEC/N.
4. Phase composition of the carbonitrided layer is determined.
5. PEC/N improves the corrosion resistance of aluminum greatly.

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