



Article

Fabrication of Polytetrafluoroethylene Coated Micron Aluminium with Enhanced Oxidation

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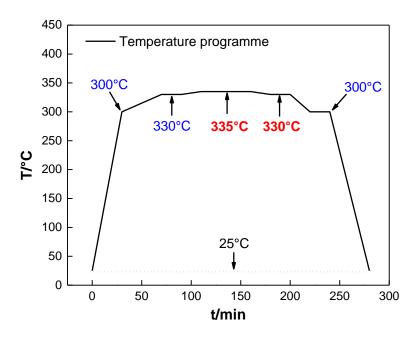


Figure S1. The curve of programed temperature in the heat treatment of Al/PTFE.

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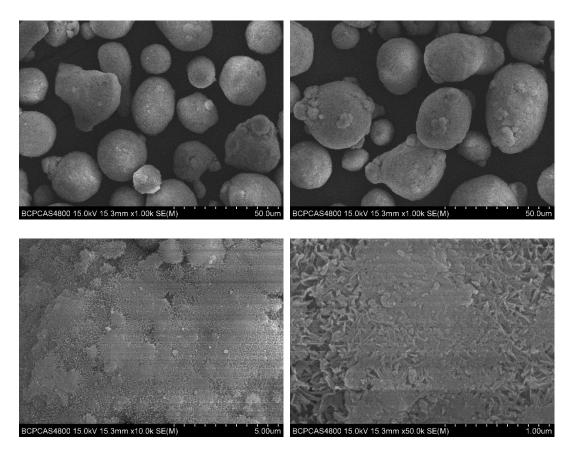


Figure S2. SEM images of core-shell structure Al/PTFE composite materials.

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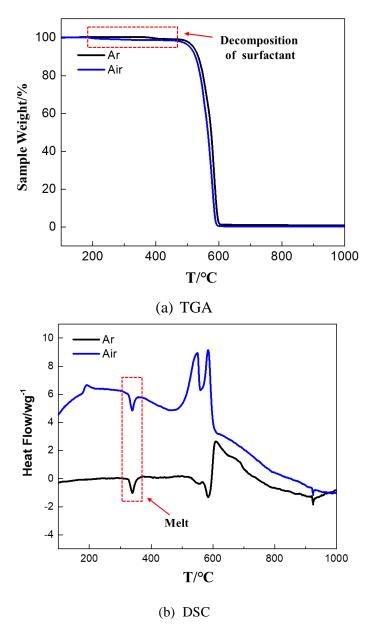


Figure S3. TGA (a) and DSC (b) curve of PTFE nano particles in aqueous solution.

Table S1. Parameters of TGA/DSC curves of Al and Al/PTFE.

Sample	Atmosphere	Convert Ratio/%	Reaction Heat/(kJ·g ⁻¹)
Al	N_2	4.83	2.19
Al	O_2	12.6	3.04
Al	Air	10.5	2.43
Al/PTFE	N_2	6.61	4.39
Al/PTFE	O_2	37.1	10.4
Al/PTFE	Air	29.4	8.02

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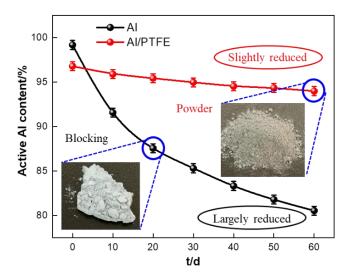


Figure S4. The active Al content in pure Al and Al/PTFE powders during aging.