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Facile Approach to the Green Synthesis of Novel Ternary Composites with Excellent Superhydrophobic and Thermal Stability Property: An Expanding Horizon

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**Facile Approach to the Green Synthesis of Novel Ternary Composites
with Excellent Superhydrophobic and Thermal Stability Property: An
Expanding Horizon**

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Abstract

In present study, a novel and facile strategy of electrophoretic deposition (EPD) with following perfluorodecyltriethoxysilane (FAS-17) modification is successfully introduced to fabricate superhydrophobic ternary composites- $\text{Al}_x\text{Ni}_y(\text{Bi}_2\text{O}_3)_z$ with excellent superhydrophobic and thermal stability property. The chemical composition, morphology and heat-release performance of the products were analyzed by XRD, FESEM, FT-IR,

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