

Accepted Manuscript

Full Length Article

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PII: S0169-4332(18)31628-3
DOI: <https://doi.org/10.1016/j.apsusc.2018.06.061>
Reference: APSUSC 39569

To appear in: *Applied Surface Science*

Received Date: 27 March 2018
Revised Date: 29 May 2018
Accepted Date: 8 June 2018

Please cite this article as: Y. Xu, Y. Yang, H. Duan, J. Gao, D-X. Yan, G. Zhao, Y. Liu, Flexible and highly conductive sandwich nylon/nickel film for ultra-efficient electromagnetic interference shielding, *Applied Surface Science* (2018), doi: <https://doi.org/10.1016/j.apsusc.2018.06.061>

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**Flexible and highly conductive sandwich nylon/nickel film for
ultra-efficient electromagnetic interference shielding**

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Abstract: A flexible and highly conductive nylon porous membrane (NPM)/nickel (Ni) composite film with outstanding electromagnetic interference (EMI) shielding performance is fabricated *via* a facile electroless deposition method. The NPM, with a large specific surface area, is amenable to the electroless deposition of Ni and the enhancement of interaction between Ni and NPM. Highly conductive Ni layers are uniformly deposited on the upper and lower surfaces of NPM to construct a sandwich structure that provides numerous interfaces to reflect, scatter, and absorb

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