Supplementary material

Synergistic Enhancement of Electrochemical Performance in NiFe₂O₄@Ni-MOF Nanoflakes Hybrids for High-Performance Energy Storage Applications

Rabia Batool, Suprimkumar D. Dhas, Avinash C. Mendhe, Aqsa Ghazal, Inkyum Kim, and

Daewon Kim*

Department of Electronic Engineering, Institute for Wearable Convergence Electronics, Kyung Hee University, 1732 Deogyeong-daero, Giheung-gu, Yongin 17104, Republic of Korea



Figure S1. Raman spectra of the synthesized (a) NFO nanoflakes (b) Ni-MOF and NFO@Ni-MOF.



Figure S2. N₂ adsorption-desorption isotherms for the Ni-MOF.



Figure S3. Cyclic stability of the NFO//AC, Ni-MOF//AC, and NFO@Ni-

MOF//AC, HASCs device.



Figure S4. FE-SEM of the NFO@Ni-MOF, Ni-MOF and NFO electrodes before (a, c, e) and after (b, d, f) 10000 cycles.



Figure S5. EIS plot for NFO//AC, and Ni-MOF//AC HASCs device.