

Cite this: *RSC Adv.*, 2017, 7, 26494

DOI: 10.1039/c7ra90058a

www.rsc.org/advances

## Correction: Modified chemical synthesis of MnS nanoclusters on nickel foam for high performance all-solid-state asymmetric supercapacitors

Vijay S. Kumbhar,<sup>a</sup> Yong Rok Lee,<sup>a</sup> Choon Sup Ra,<sup>b</sup> Dirk Tuma,<sup>c</sup> Bong-Ki Min<sup>d</sup> and Jae-Jin Shim<sup>\*a</sup>

Correction for 'Modified chemical synthesis of MnS nanoclusters on nickel foam for high performance all-solid-state asymmetric supercapacitors' by Vijay S. Kumbhar *et al.*, *RSC Adv.*, 2017, 7, 16 348–16 359.

In the original manuscript, an incorrect caption was given for parts (a) and (b) of Fig. 4; the revised caption should read: "Fig. 4(a) Cyclic voltammograms, (b) variation in  $C_s$  of the MnS@NF electrode at different scan rates from 5 to 100  $\text{mV s}^{-1}$ ..."

In Section 3.2, Structure and surface morphology of MnS, an incorrect value was given for the interplanar distance of the (101) lattice plane of  $\gamma$ -MnS. The correct value is 0.30 nm, and the corrected sentence should read: "The interplanar distances of 0.30, 0.23, and 0.15 nm measured from the lattice fringes in the TEM images (Fig. 3(b)) correspond to the (101), (102), and (202) lattice planes of  $\gamma$ -MnS".

In Section 3.4, Supercapacitive performance of MnS@NF//rGO@NF ASC, an incorrect value for the capacitive retention of the MnS@NF//rGO@NF ASC was given. The correct value is 86.5%, and the corrected sentence should read: "A capacitive retention of 86.5% was observed after 2000 cycles, which is better than those of the other MnS-based ASCs".

The reference numbers given in Fig. 16 were incorrect. The corrected figure is shown below.

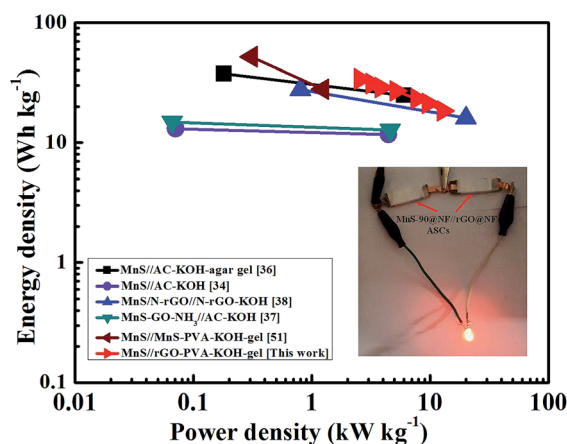


Fig. 16 (a) Ragone plots of the MnS@NF//rGO@NF ASC prepared in this study and other MnS-based ASCs reported in the literature (inset: demonstration of the MnS@NF//rGO@NF ASC).

In Section 3.4, Supercapacitive performance of MnS@NF//rGO@NF ASC, in one instance ref. 39 was incorrectly cited rather than ref. 51. The corrected sentence is as below: "These values are significantly better than that of many other reported MnS-based ASCs".<sup>34,37,51</sup>

<sup>a</sup>School of Chemical Engineering, Yeungnam University, Gyeongsan, Gyeongbuk 38541, Republic of Korea. E-mail: jjshim@yu.ac.kr

<sup>b</sup>School of Chemistry and Biochemistry, Yeungnam University, Gyeongsan, Gyeongbuk, Republic of Korea

<sup>c</sup>BAM Federal Institute of Materials Research and Testing, Berlin, Germany

<sup>d</sup>Central Instrumental Analysis Center, Yeungnam University, Gyeongsan, Gyeongbuk, Republic of Korea



In the reference section, incorrect author details were given for ref. 18. The corrected reference is given as ref. 1 below.

Additionally, a revised Electronic Supporting Information document was uploaded for the manuscript to correct several variable names which were missing the ' symbol.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

## References

S. Sahoo, K. K. Naik and C. S. Rout, *Nanotechnology*, 2015, **26**, 455401.

