Erratum to: Template-free electrochemical synthesis of tin nanostructures

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The images presented in Fig. 1a and b of Mackay et al. [1] were not obtained from samples produced using the specific conditions described in the Experimental section on page 1477. Replacement figures from samples prepared under the conditions described in the text [1] using a deposition current of 35 mA/cm² are provided in this

Erratum. Owen and Norton have recently shown [2] that nanoneedle structures can be produced using a range of deposition conditions; the material shown in the corrected figure was obtained with the best known conditions at the time of submission. The analysis of the structures and the way that these needles interact with, e.g., Li [3] are not affected by the error since the analysis in this paper was carried out on material prepared under the conditions described in [1].

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Fig. 1 **a** SEM image showing tin nanoneedles formed by electroplating onto copper substrates. **b** Higher-magnification image of the same sample showing branch points formed during nanoneedle growth

References

1. Mackay DT, Janish MT, Sahaym U, Kotula PG, Jungjohann KL, Carter CB, Norton MG (2014) Template-free electrochemical synthesis of tin nanostructures. *J Mater Sci* 49:1476–1483. doi:[10.1007/s10853-013-7917-1](https://doi.org/10.1007/s10853-013-7917-1)
2. Owen CD, Norton MG (2016) Growth mechanism of one dimensional tin nanostructures by electrodeposition. *J Mater Sci* 51:2577–2588. doi:[10.1007/s10853-015-9323-3](https://doi.org/10.1007/s10853-015-9323-3)
3. Janish MT, Mackay DT, Liu Y, Jungjohann KL, Carter CB, Norton MG (2016) TEM in situ lithiation of tin nanoneedles for battery applications. *J Mater Sci* 51:2589–2602. doi:[10.1007/s10853-015-9318-0](https://doi.org/10.1007/s10853-015-9318-0)