

## EXPRESSION OF CONCERN

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[View Journal](#) | [View Issue](#)Cite this: *Nanoscale Adv.*, 2023, 5,  
7086

DOI: 10.1039/d3na90114a

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## Expression of concern: Tin–zinc-oxide nanocomposites (SZO) as promising electron transport layers for efficient and stable perovskite solar cells

Ahmed E. Shalan,<sup>\*a</sup> Ayat N. El-Shazly,<sup>ab</sup> Mohamed M. Rashad<sup>a</sup> and Nageh K. Allam<sup>\*b</sup>Expression of concern for 'Tin–zinc-oxide nanocomposites (SZO) as promising electron transport layers for efficient and stable perovskite solar cells' by Ahmed E. Shalan *et al.*, *Nanoscale Adv.*, 2019, 1, 2654–2662, DOI: <https://doi.org/10.1039/C9NA00182D>.

The Royal Society of Chemistry is publishing this Expression of concern in order to alert readers that concerns have been raised regarding the reliability of the FESEM data in Fig. 3c, XPS data in Fig. 4a and c, the EQE spectra in Fig. 5b, and the Nyquist curves in Fig. 6b. An investigation is underway, and an Expression of concern will continue to be associated with the article until a final outcome is reached.

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20<sup>th</sup> November, 2023Executive Editor, *Nanoscale Advances*.<sup>a</sup>Central Metallurgical Research and Development Institute (CMRDI), P. O. Box 87, 11422, Helwan, Cairo, Egypt. E-mail: [a.shalan@cmrdi.sci.eg](mailto:a.shalan@cmrdi.sci.eg)<sup>b</sup>Energy Materials Laboratory, School of Sciences and Engineering, The American University in Cairo (AUC), 11835, New Cairo, Egypt. E-mail: [nageh.allam@aucegypt.edu](mailto:nageh.allam@aucegypt.edu)