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This collection aims to bring together original research efforts focused on improving the efficiency, stability, and environmental sustainability of photovoltaic materials.

J.Y., G.Z. and H. Yu researched data for the paper. All authors contributed substantially to discussion of the content, wrote the paper and reviewed and/or edited the paper before submission.

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All authors contributed to the discussion of content. P.K.N. researched most of the data, carried out the analysis and wrote the article. D.C. and S.M. contributed to the researching of data and analysis. D.C., H.J.S. and P.K.N. edited the manuscript before submission.

H.J.S. is the co-founder and CSO of Oxford PV Ltd, a company that is commercializing perovskite photovoltaic technologies. P.K.N., S.M. and D.C. declare no competing interests.

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