Supporting information for:

Atomistic origins of high-performance in hybrid halide perovskite solar cells

Jarvist M. Frost,[†] Keith T. Butler,[†] Federico Brivio,[†] Christopher H. Hendon,[†] Mark van Schilfgaarde,[‡] and Aron Walsh*,[†]

Centre for Sustainable Chemical Technologies and Department of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, UK, and Department of Physics, Kings College London, London WC2R 2LS, UK

E-mail: a.walsh@bath.ac.uk

A dataset comprised of GAUSSIAN input and output files used in this work are electronically available as a figshare dataset http://dx.doi.org/10.6084/m9.figshare. 915406.S1

The files comprise of geometry optimisations of methylammonia [MA] (including flourinated analogues [MA-1F, MA-2F, MA-3F]), ammonia [NH4] and formamidinium [forma]. Structures were relaxed at B3LYP/6-31G*, and the polarisation tensor was calculated at B3LYP/6-31G* and CCSD/CC-PVQZ. A PCM prefix to the filename indicates that the calculation (geometry relaxation and single point) was carried out with the polarizable continuum model (PCM) with Ethanol as the solvent.

^{*}To whom correspondence should be addressed

[†]Centre for Sustainable Chemical Technologies and Department of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, UK

[‡]Department of Physics, Kings College London, London WC2R 2LS, UK

References

(S1) Figshare data set. http://dx.doi.org/10.6084/m9.figshare.915406.