Moroni hydrogen energy storage

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The current study uses Microsoft Excel tool "Tankinator" and open-source Python software (RASPA and Coolprop); source codes are available from https://, https://github /iRASPA/RASPA2 and, respectively. All steps in the analysis are described in equations (1)-(40) and Supplementary Notes 1-11. Scripts automating the analysis are available from the corresponding author on reasonable request.

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H.B., J.R.L., T.A., K.B. and M.E.B. conceptualized and conceived the analysis. H.B., P.P. and A.A. developed the methodology. H.B. and P.P. conducted the investigation. H.F. and J.R.L. provided the experimental resources. P.P. and H.F. curated the data. P.P. and H.B. wrote the original draft. H.B., P.P., A.A., K.B., H.F., M.E.B., J.R.L. and T.A. reviewed and edited the paper. P.P. and H.B. visualized the results. J.R.L., T.A. and H.B. supervised and obtained funding and resources for the project.

The authors declare the following competing interests: J.R.L. has a financial interest in Mosaic Materials Inc., a start-up company working to commercialize metal-organic frameworks for gas adsorption applications. The University of California, Berkeley, has been issued a patent relating to the use of Ni2(m-dobdc) on which J.R.L. is listed as a co-inventor and has applied for a patent relating to the use of V-btdd on which J.R.L. is listed as a co-inventor. The remaining authors declare no competing interests.

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