**Research data supporting the publication: Under Pressure: Offering Fundamental Insight into Structural Changes on Ball Milling Battery Materials**

The data set includes:

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| **Characterisation Method** | **Data Sets Included** | **Data Format** |
| Powder X-ray Diffraction (PXRD) | Ball-mill (40Hz and 50 Hz) study of H-Nb2O5Ball-mill (40Hz and 50 Hz) study of Li-Mo-Ox with variation in ball size used | Data output file in brml format, but data set includes .raw and .xy format. |
| Transmission Electron Microscope (TEM) | Li-Mo-Ox and ball-milled equivalent | File format in EMI, SER and TIF. |
| NMR | Li-Mo-Ox and ball-milled sample for Li and Mo NMR | .txt file and png |
| Electrochemistry  | Li2MnO3 (ball-milled sample)Li2MoO4 (ball-milled sample)  | .mpr fileSigma plot file type (Li2MoO4) |