

Description of Additional Supplementary Files

File Name: Supplementary Video 1

Description: Representative molecular dynamics simulation of KVO₃ at T = 500 K starting from the perovskite structure

File Name: Supplementary Video 2

Description: Connection between the perovskite phase and the KVO₃-type structures as computed with the nudged elastic band method.

File Name: Supplementary Video 3

Description: Evolution of the crystal structure, energy, and polarisation of KVO₃ as it evolves from the ZZ-A antipolar ground state to the ZZ-F polar phase.