## Supplemental material

High-performance artificial synapse based on two-dimensional  $MoSe_2$  powder with Se vacancy

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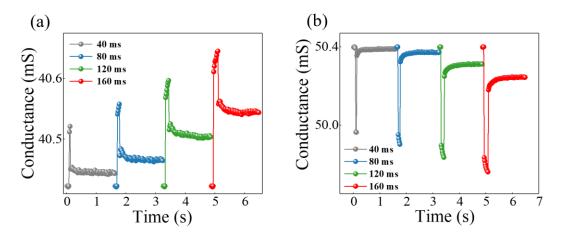


Figure S1. The conductance response of  $MoSe_2$  device with different pulse widths (40-160 ms) under (a) 1.5 V and (b) -1.5 V pulse voltages.