## Bioresistive random access memory with an in-memory computing function based on graphene quantum dots

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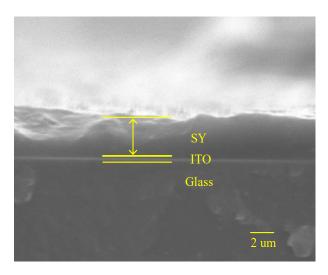


Fig. S1 SEM image of the SY film

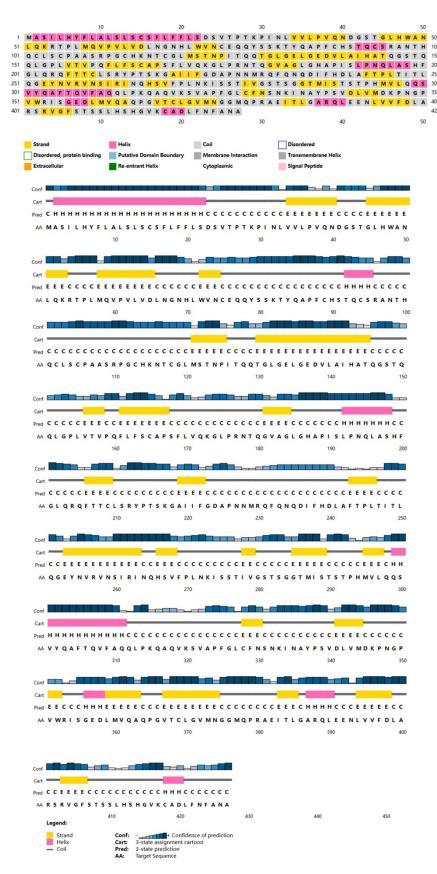


Fig. S2 Secondary structure of soya protein by the prediction of PSIPRED online server<sup>1</sup>: 7S globulin.

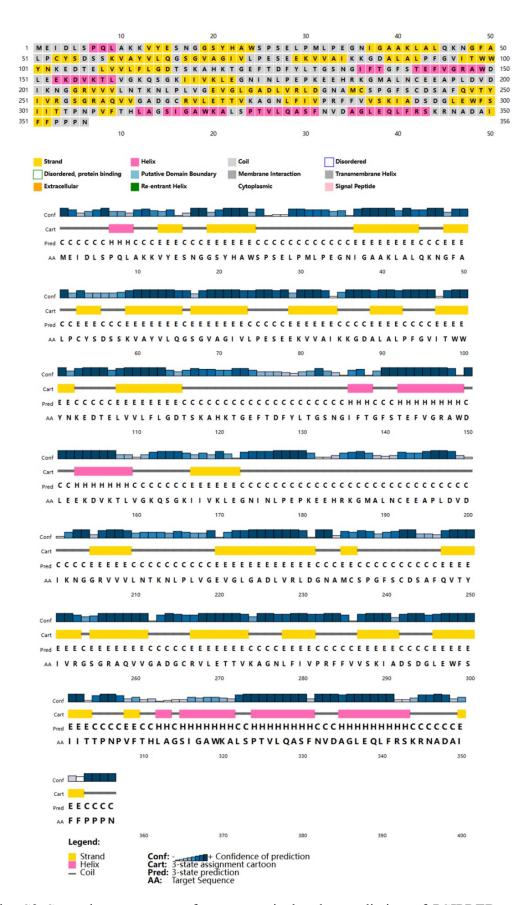


Fig. S3 Secondary structure of soya protein by the prediction of PSIPRED online server<sup>1</sup>: 11S globulin.

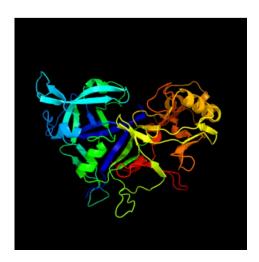


Fig. S4 Three-dimensional structure of soya protein predicted by the Phyre2 web server2: 7S globulin.

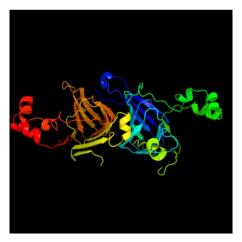


Fig. S5 Three-dimensional structure of soya protein predicted by the Phyre2 web server2: 11S globulin.