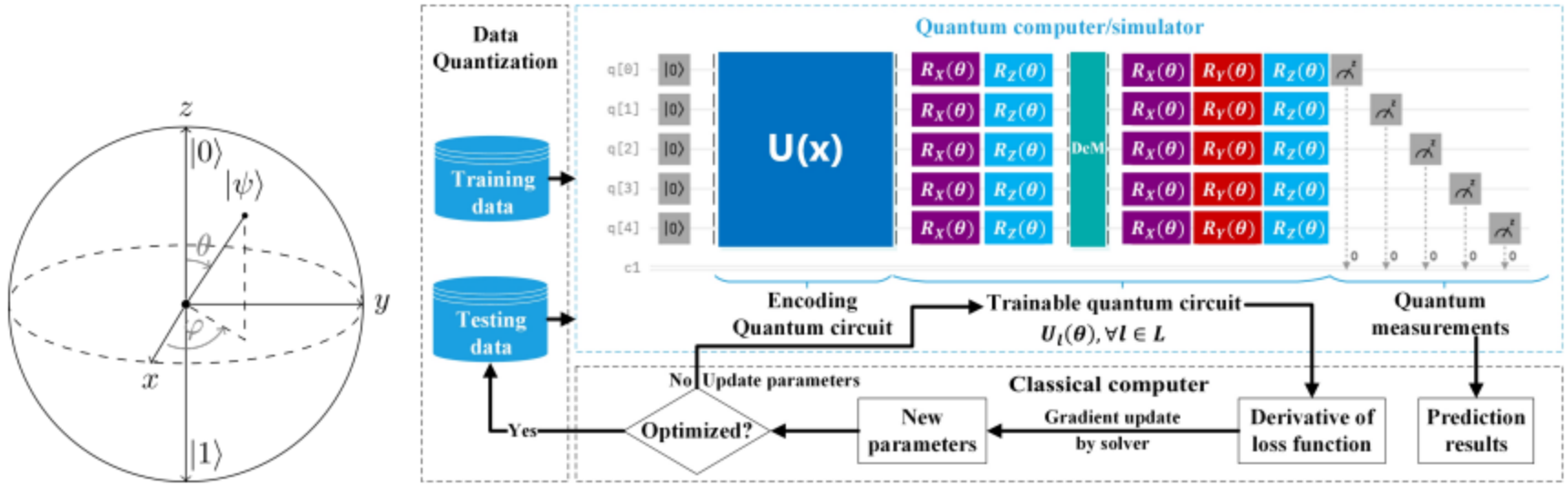
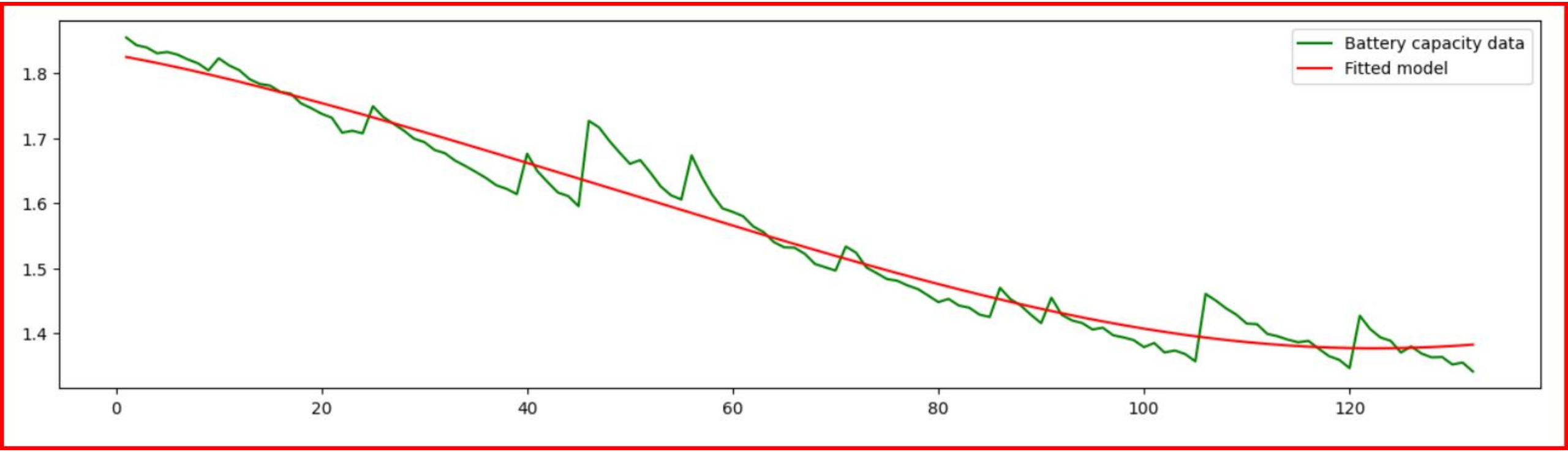


(a) The Bloch sphere

(b) QNN Work Flow

Fig. 2. Estimate Lithium-ion battery degradation using Quantum Neural Network


Battery capacity data
Fitted model
1.8
1.7
1.6
1.5
1.4
0
20
40
60
80
100
120

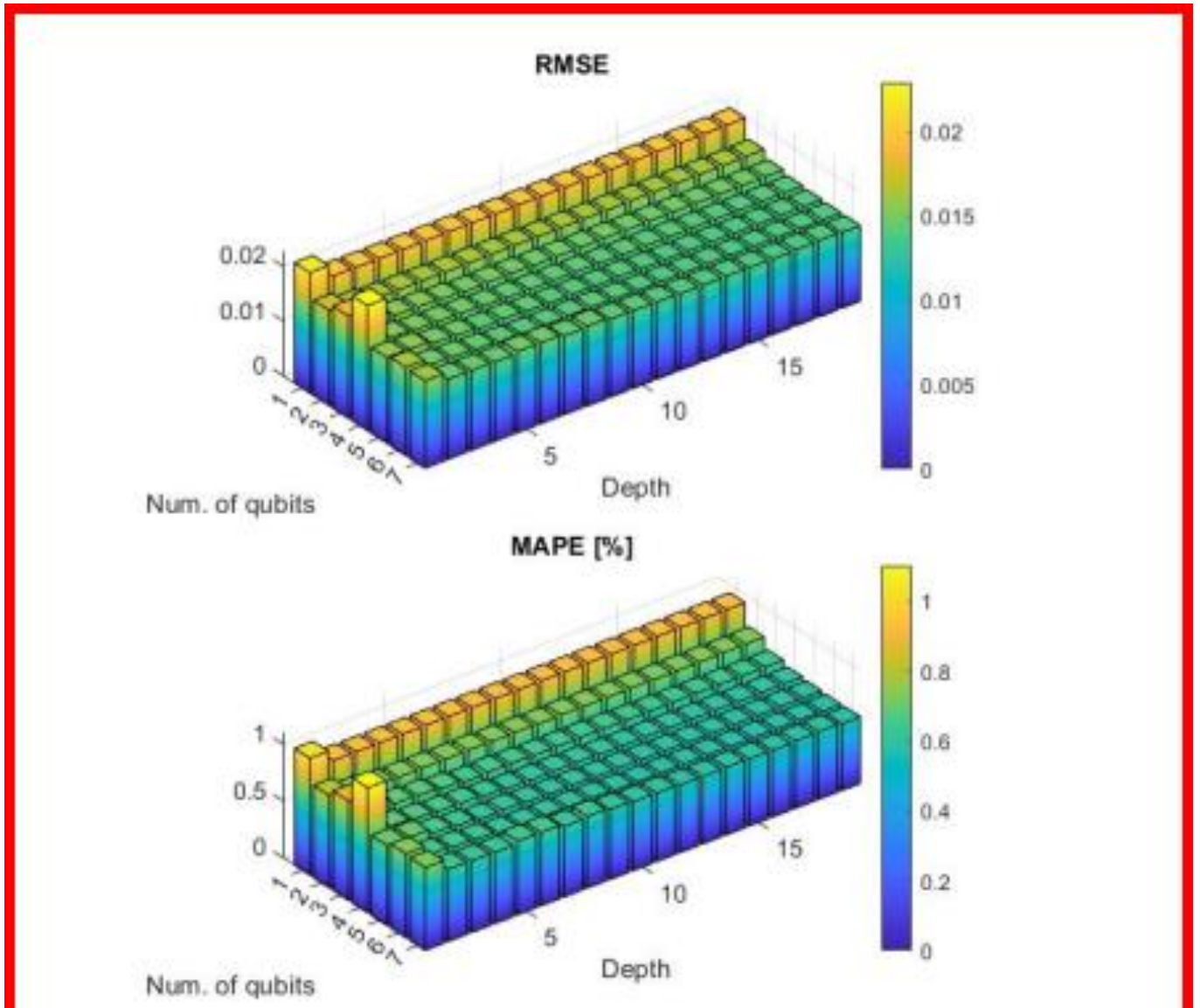


Fig. 5. Effect of the number of qubits and the depth on the accuracy of the QNN model on B06