

Supporting Information

Analog memristive characteristics of square shaped lanthanum oxide nanoplates layered device

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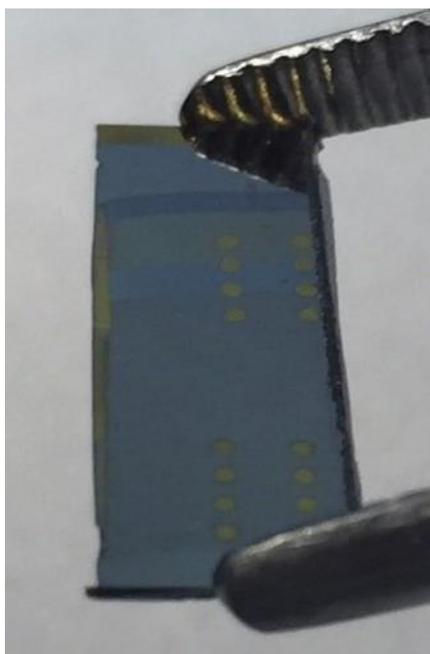
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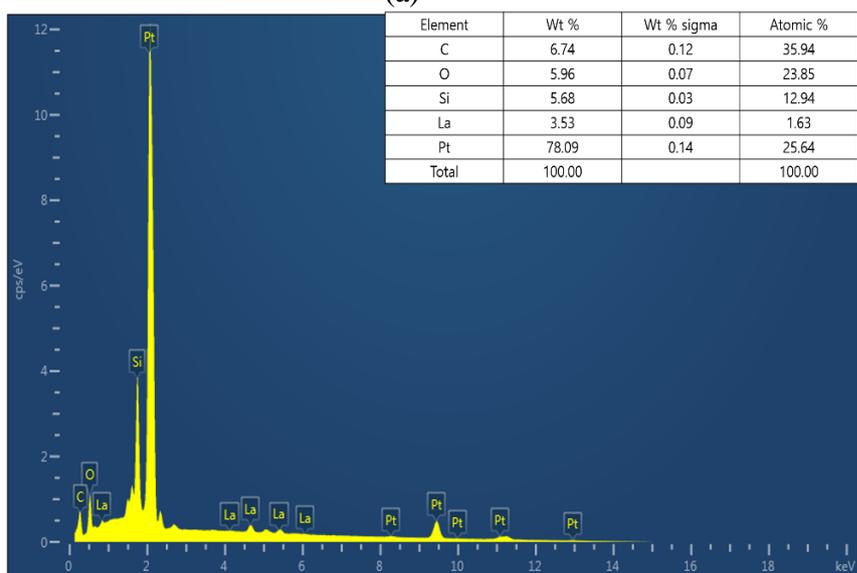
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(a)



(b)

Figure S1. (a) Photo image of a complete LaO_x NPs layered device having Au top electrode, and (b) EDS analysis of atomic ratio on surface of LaO_x NPs layer.

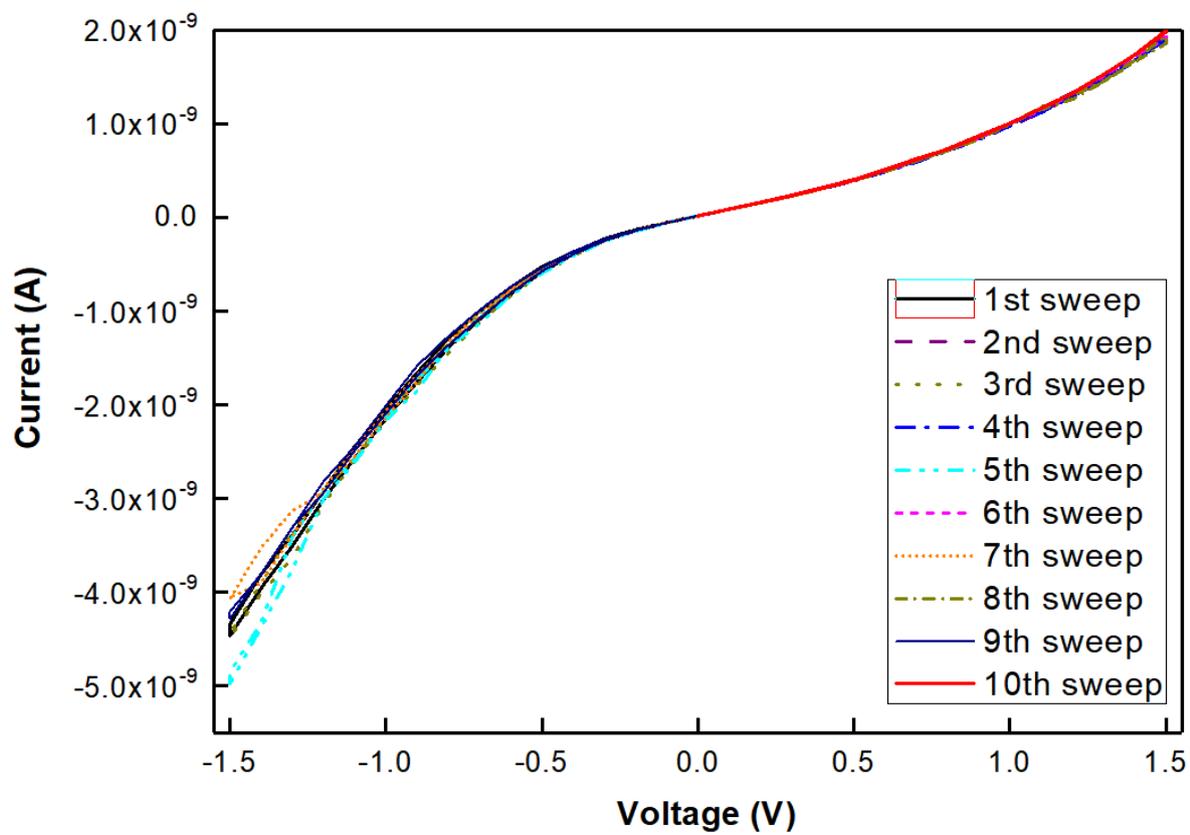


Figure S2. I-V characteristics of ten consecutive sweep of Al/ LaO_x NPs/Pt device

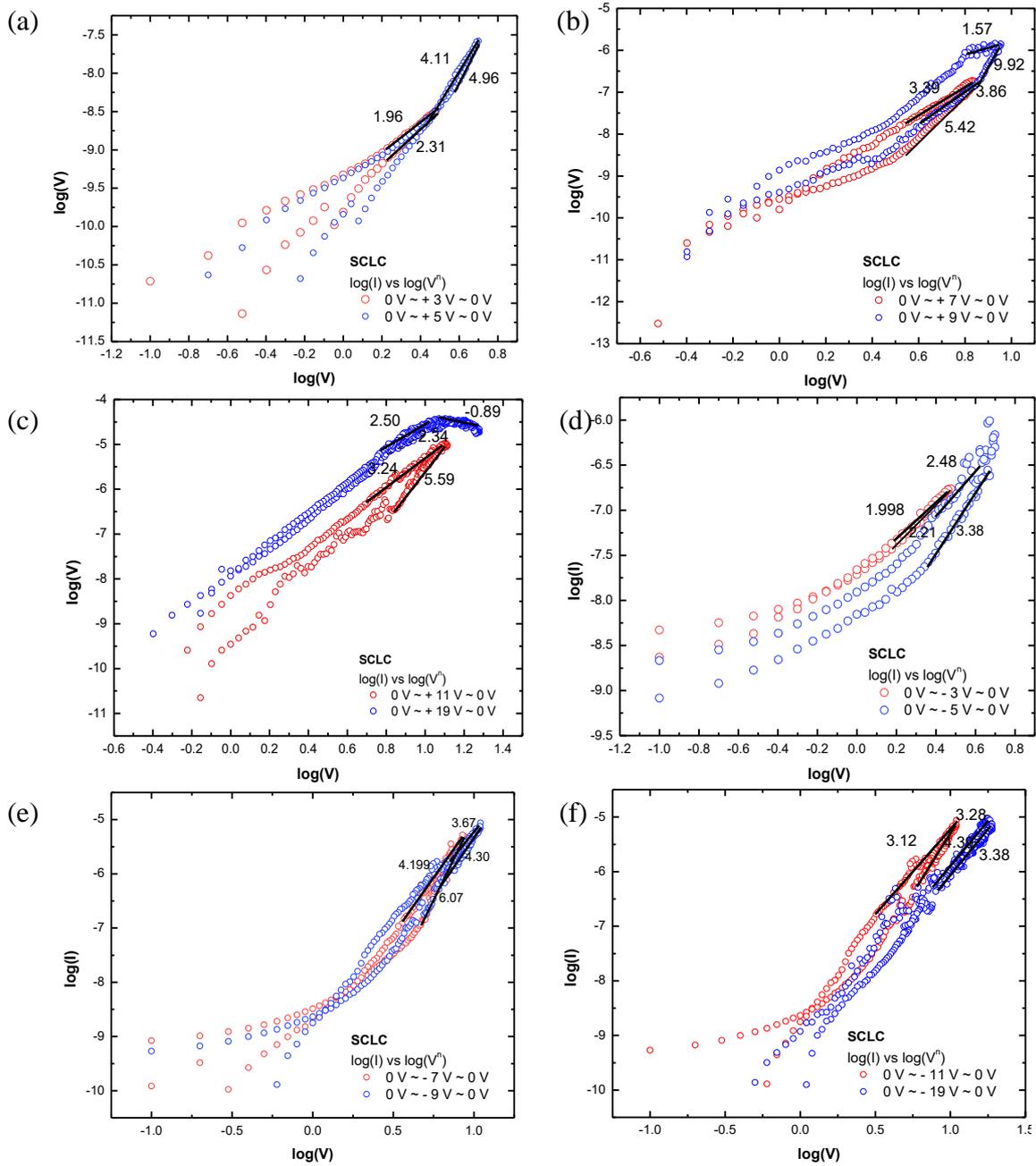


Figure S3. Replot of I - V in Figure 3c with the form of SCLC at (a) + 3 V, + 5 sweep, (b) -3 V sweep, -5 V sweep, (c) + 7, + 9 V sweep, (d) -7 V, - 9 V sweep, (e) + 11 V sweep, +19 V sweep and (f) -11 V sweep, -19 V sweep.