**Supporting Information of:**

**Simple Approach Using g-C3N4 to Enable SnO2 Anode High Rate**

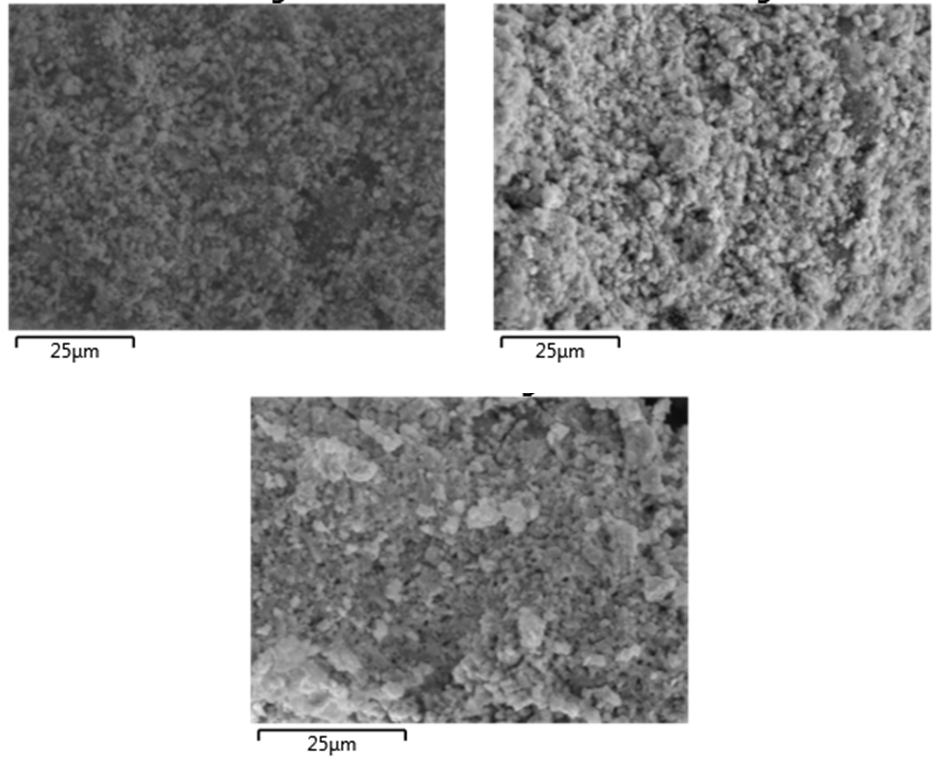
**Performance for Li Ion Battery**

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**Fig. S1** N2 adsorption desorption measurements at 77 K of samples SnO2, C3N4, SnO2@C3N4.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Element | Area 1 | | Area 2 | | Area 3 | |
|  | Weight % | Atomic % | Weight % | Atomic % | Weight % | Atomic % |
| Sn | 59.19 | 15.77 | 60.92 | 16.78 | 57.40 | 14.72 |
| O | 24.79 | 48.99 | 23.89 | 48.80 | 25.75 | 48.98 |
| C | 8.21 | 21.61 | 7.51 | 20.45 | 9.12 | 23.10 |
| N | 4.55 | 10.27 | 4.55 | 10.61 | 4.71 | 10.23 |
| Cl | 2.30 | 2.05 | 2.17 | 2.00 | 2.22 | 1.91 |
| Na | 0.95 | 1.31 | 0.95 | 1.36 | 0.80 | 1.06 |
| Total: | 100.00 | | | | | |

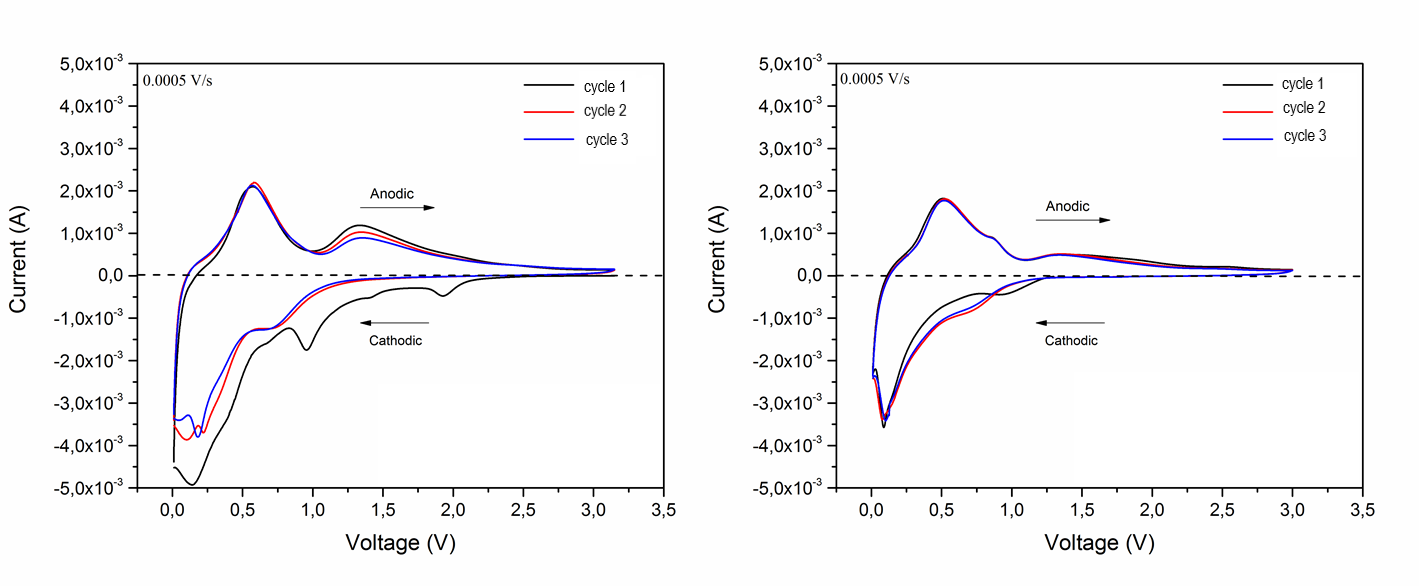


Area 3

Area 2

Area 1

**Fig. S2** EDS of the SnO2@C3N4 sample.



**Fig. S3** Cyclic voltammetry of sample SnO2 in the voltage range of 0.01-3.25 V vs Li+/Li at 0.5 mV/s (left), three CV cycles collected after 10 galvanostatic discharge/charge cycles at 0.78 A/g.