



Supplementary Materials: Engineering the Surface of Ti_3C_2 MXene Nanosheets for High Stability and Multimodal Anti-cancer Therapy

Chiranjeevi Korupalli, Kai-Long You, Girum Getachew, Akash S. Rasal, Worku Batu Dirersa, Mochamad Zakki Fahmi and Jia-Yaw Chang

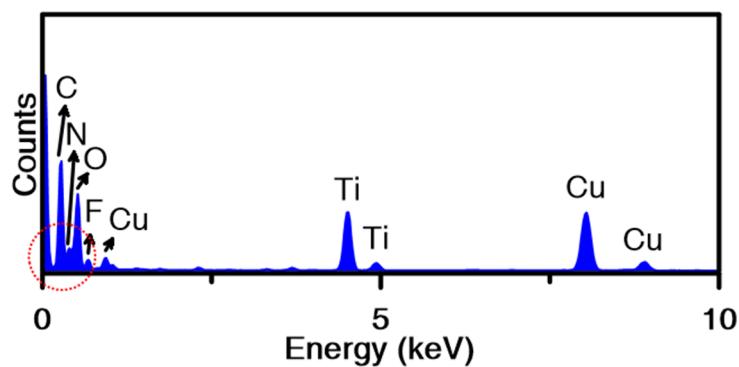


Figure S1. EDS spectrum of CGDSTC NSs.

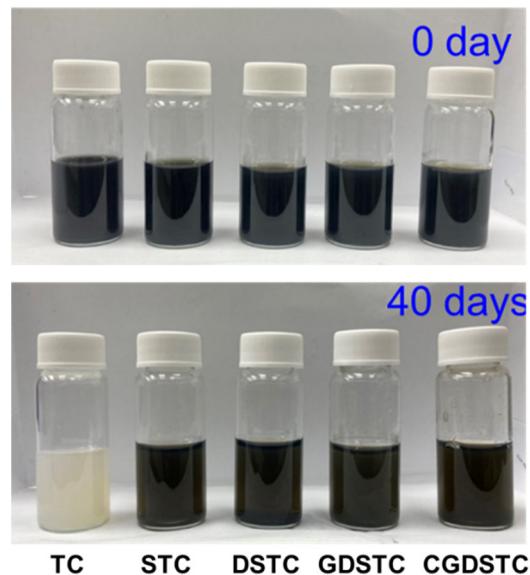


Figure S2. Photographs of solutions after 0 day and 40 days storage.

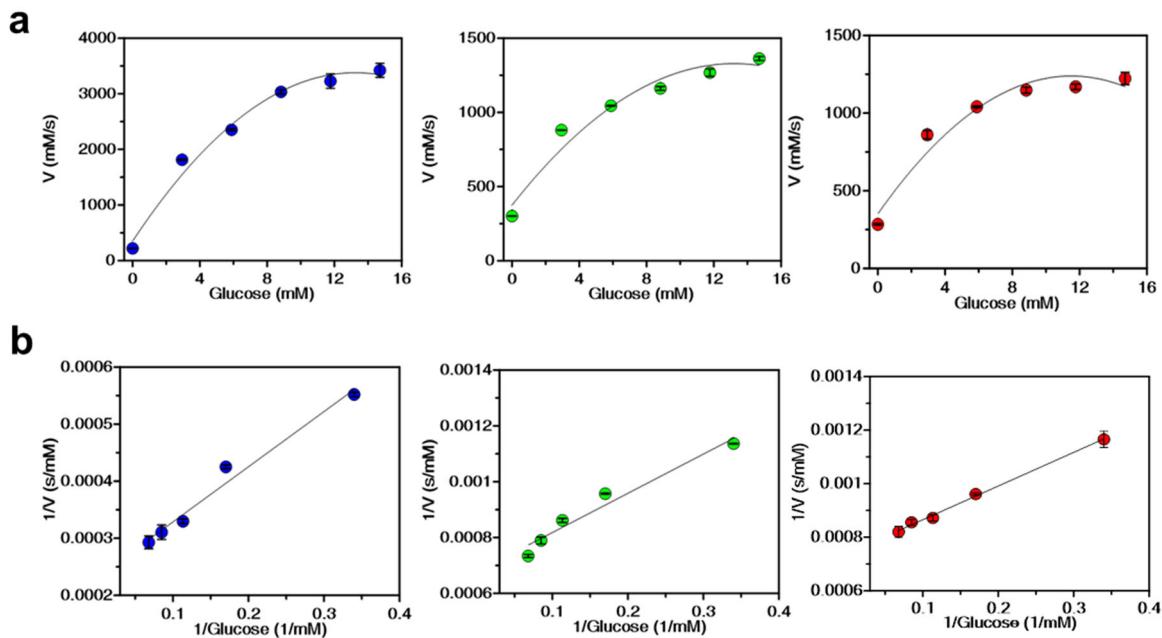


Figure S3. (a) Michaelis–Menten curves and (b) Lineweaver–Burk models for the generation of gluconic acid in the presence of free GOx (Blue dot), CGDSTC NSs+laser (Green dot), and CGDSTC NSs (Red dot).



Figure S4. Photographs to show the generation of gluconic acid at different conditions.

Table S1. The V_{\max} and K_m values at different conditions.

	V_{\max} (mM/s)	K_m (mM)
Free Gox without laser	4311.2	4.17
Ce6-Gox-MXene with laser	1476.3	2.07
Ce6-Gox-MXene without laser	1351.9	1.7