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Supplementary Information

Remarkably Ultra-Sensitive Large area matrix of MXene based Multifunctional Physical Sensors (Pressure, Strain, and Temperature) for Mimicking the Human Skin

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Table S1: Table displaying response time of the fabricated sensor at varied pressure

Sl.No	Pressure Applied (kPa)	Response Time (msec)
1.	1.477	316
2.	1.729	302
3.	2.167	310
4.	3.185	310

Table S2: Table displaying response time of the fabricated sensor at varied strain

Sl.No	Strain Applied(%)	Response Time (msec)
1.	5	510
2.	7	510
3.	10	511
4.	15	514
5.	20	524

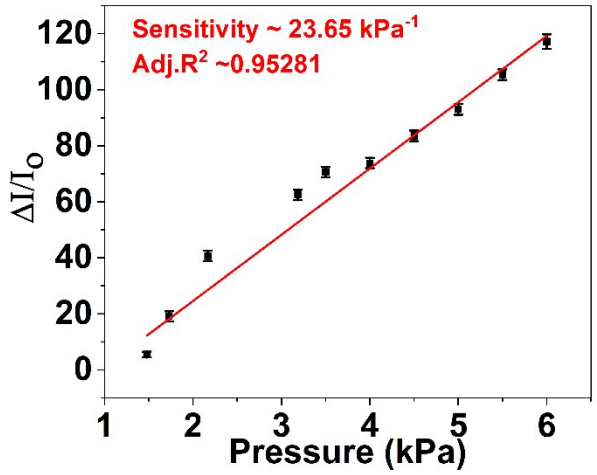

Figure S1: Sensitivity plot displaying sensitivity value of ~23.65 kPa^{-1} at applied pressure range between 1.477 – 6 kPa.

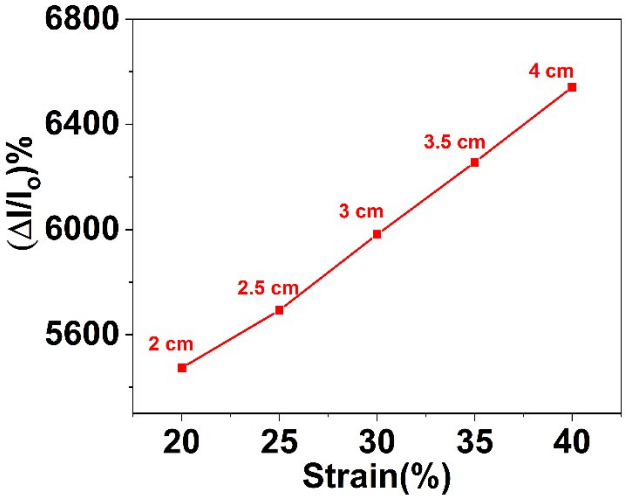

Figure S2: Normalized Current is plotted against applied strain on the fabricated sensor, wherein by increasing the length of the sensor a proportionate increase in current value was observed.

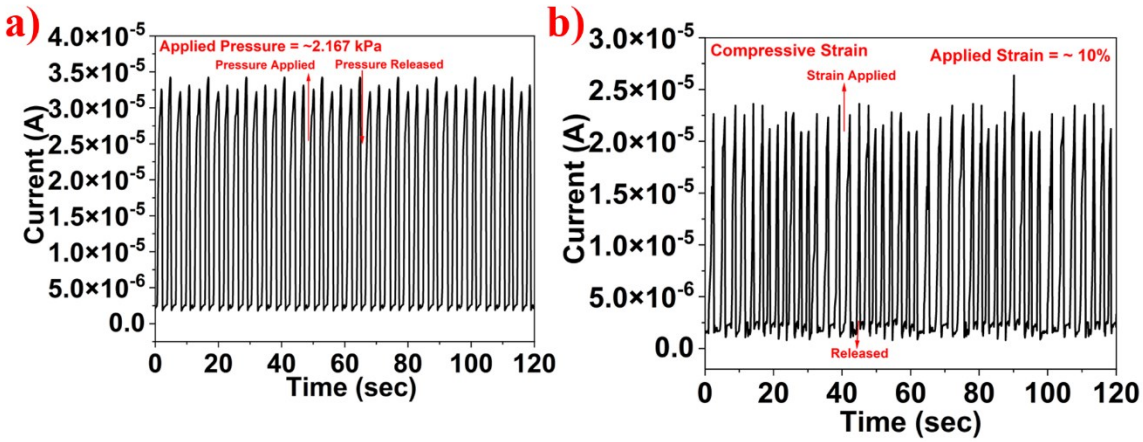

Figure S3: a) Temporal Response of the fabricated sensor (i.e. after dipping in DI-Water followed by drying) under the constant pressure of ~2.167 kPa, b) Temporal Response of the fabricated sensor (i.e. after dipping in DI-Water followed by drying)under the constant applied strain of 10%.

Consent statement

The authors declare that informed consent was obtained from all the human participants for the experiments that involed them.