

Dual conductive network sensors based on MXene/PDES supramolecular elastomer and its performance

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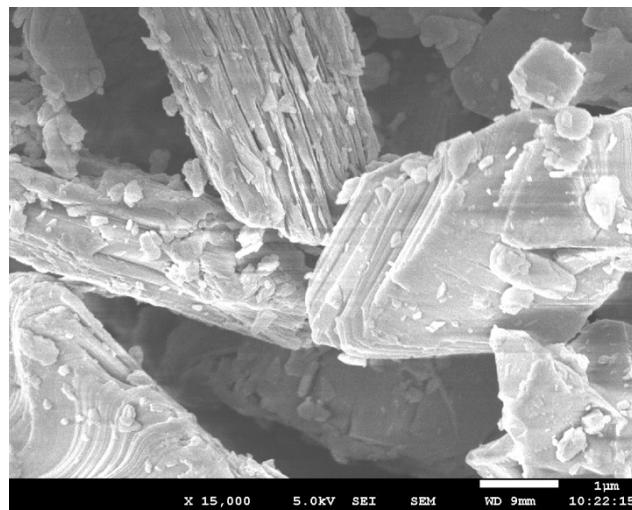


Figure S1. SEM images for the MAX phase.

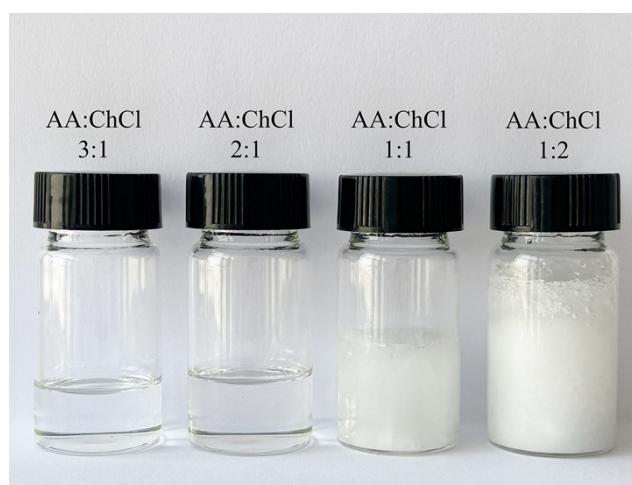


Figure S2. Digital images of PDES composed of different molar ratios (3:1 ~ 2:1) of AA: ChCl after cooling to room temperature.



Figure S3. Comparative photos of PDES fluidity before and after polymerization.

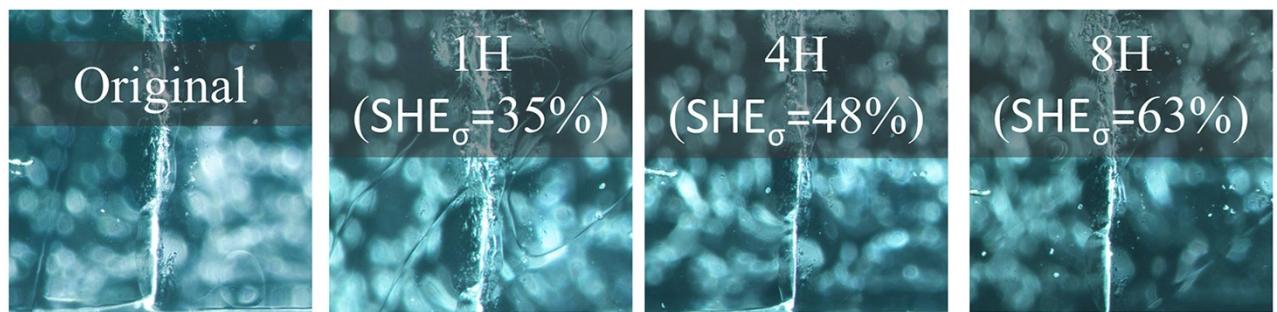


Figure S4. Optical microscopy of the surface damage of MDES-0 before and after 8h of healing.

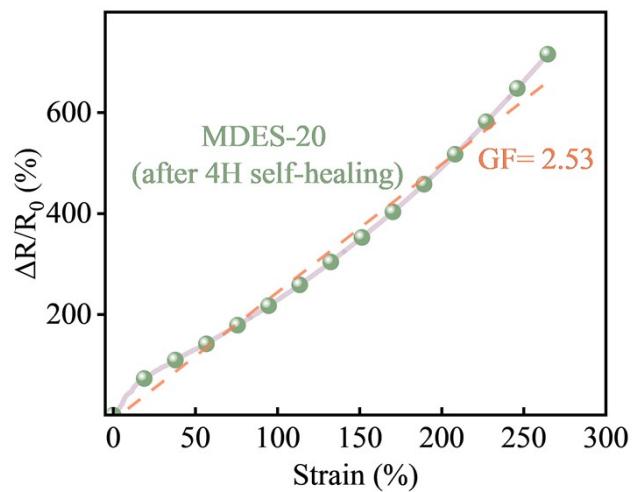


Figure S5 Relative resistance change of the MDES sensor after self-healing versus strain (0-264%).

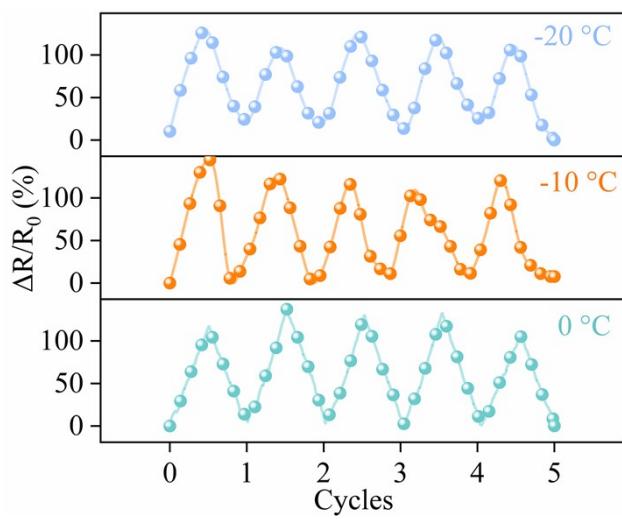


Figure S6 Cyclic strain sensing behaviour of the MDES sensor under low temperature environments ($0 \sim -20^\circ\text{C}$).