## Supporting Information

## Effects of polyacrylic acid molecular weight on V<sub>2</sub>C-MXene nanocoating for obtaining ultralow friction and ultralow wear under ambient working environment

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Figure S1. Friction curves of PLC film against steel ball or PLC-coated ball under 4 N.



Figure S2. Friction curves of the pristine V<sub>2</sub>C-MXene under 4 N.