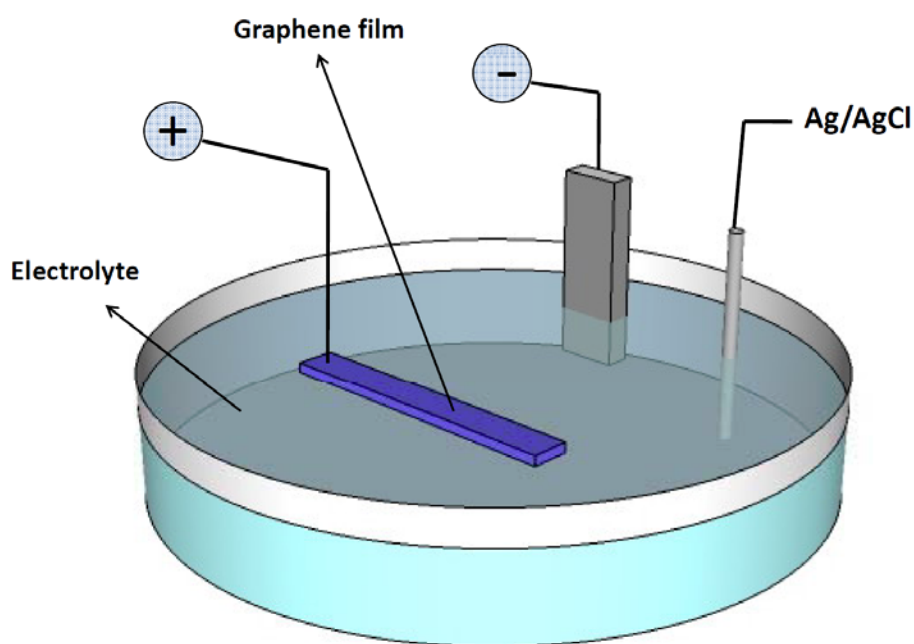


Electronic Supplementary Information

## A rationally-designed synergetic polypyrrole/graphene bilayer actuator

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**Fig. S1** Experimental setup to produce a bilayer structure of PPy(ClO<sub>4</sub><sup>-</sup>) and graphene film by a floating polymerization method.