

# A Novel Flexible Bidirectional Bending Actuator with Large Angle

Jie Pang, Mengqian Tian, Xingsong Wang, Jiadong Lv\* and Donghua Shen

School of Mechanical and Engineering, Southeast University, China.

- Actuators made by Aluminized Polyester materials (AP) and Polyethylene terephthalate (PET) using CO2 laser
- The bending performance with pressure under different configuration was obtained
- A gripper connected by actuators has good performance
- Actuators have simple fabrication process, small size, light weight and ultra-thin



A gripper connected by soft pneumatic actuators