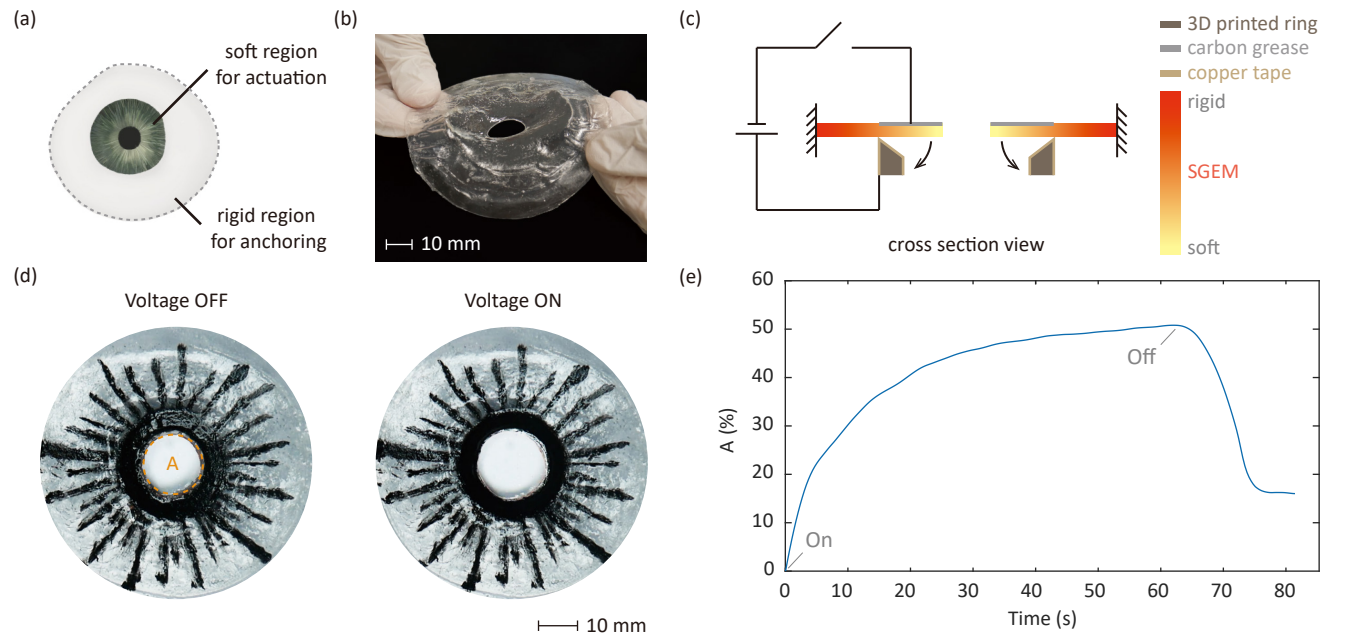
(a)
soft region
for actuation
rigid region
for anchoring
(b)
10 mm
(c)
3D printed ring
carbon grease
copper tape
rigid
SGEM
soft
cross section view
(d)
Voltage OFF
Voltage ON
A
10 mm
(e)
A (%)
Time (s)
On
Off
0
10
20
30
40
50
60
70
80