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Programmable actuating systems based on swimming fiber robots

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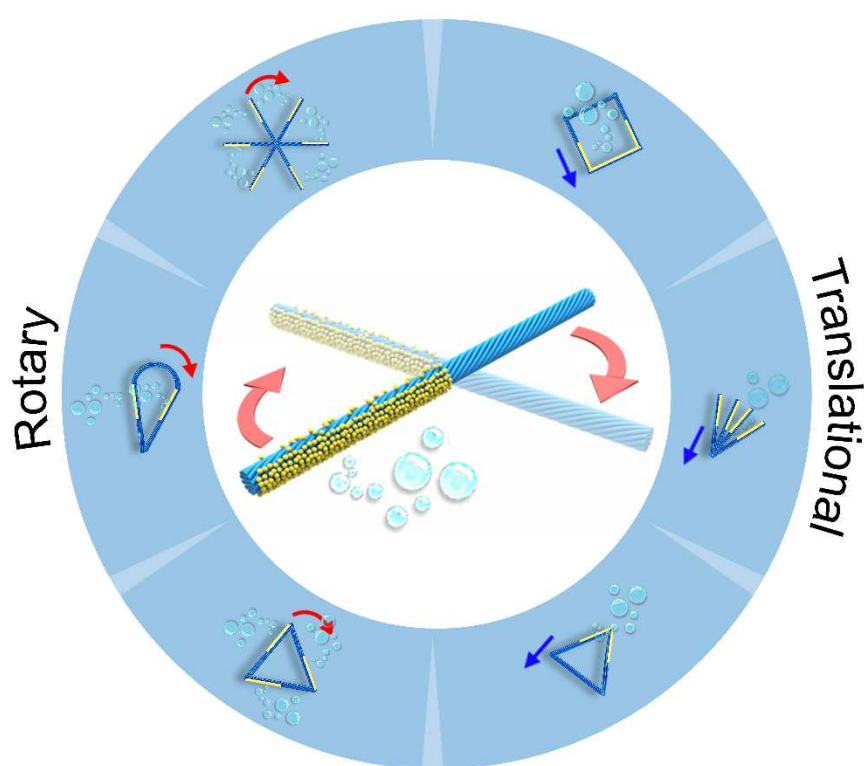
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A new family of bio-inspired programmable actuating systems have been made from carbon nanotube/platinum swimming fiber robots (SFRs). The SFRs demonstrate hetero-sectional structures that offer rapid and stable rotations in fuel solution. They can be assembled into programmable actuating systems that move in rotation and translation or switch between them. This assembling methodology may open up a new direction for microrobotics on system level.



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