



*actuators*



*Special Issue Reprint*

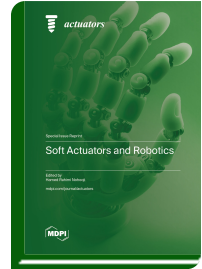
## Soft Actuators and Robotics

[www.mdpi.com/books/reprint/8622](http://www.mdpi.com/books/reprint/8622)

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ISBN 978-3-0365-9808-6 (Hardback)

ISBN 978-3-0365-9809-3 (PDF)



The Special Issue "Soft Actuators and Robotics" presents a curated collection of innovative research papers that delve into the design, fabrication, and application of soft actuators and soft robotics. This issue captures the interdisciplinary nature of soft robotics, blending principles from engineering, materials science, and computer science to advance the development of robots that are flexible, adaptable, and capable of safe interactions with humans and delicate environments. Each contribution in this issue sheds light on the latest advancements in actuator technology, offering insights into compliant mechanisms, embedded sensors, and artificial muscles. The featured research highlights the progress in programmable soft materials, modeling and simulation of sensorized actuators, and introduces novel approaches to control systems that pave the way for more intuitive and responsive robots. The scope of this issue extends beyond theoretical research, with practical demonstrations of soft actuators in action. From soft grippers that gently handle fragile objects to wearable devices that seamlessly interact with human users, the applications explored here are as diverse as they are groundbreaking. In essence, this Special Issue serves as a testament to the transformative potential of soft robotics. It is a resource for researchers, practitioners, and enthusiasts alike, reflecting the current trends and future directions in soft actuator design and robotics.



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