



## Soft Material Transducers

Guest Editor:

**Dr. Massimo Totaro**

Center for Micro-Biorobotics,  
Istituto Italiano di Tecnologia  
(IIT), 56025 Pontedera (Pisa), Italy

Deadline for manuscript  
submissions:

**closed (31 July 2021)**

### Message from the Guest Editor

In recent years, soft materials have shown an impressive development with remarkable applications in soft robots and wearable systems. They need reliable sensing and actuation mechanisms. In order to act as smoothly as biological systems. In particular, such systems require soft tactile sensing and proprioceptive actuation for achieving safe interaction with the environment and/or the human body. However, the development of soft material transducers still present several challenges, in particular regarding: design and modelling, fabrication techniques, integration of sensing and actuation, low computational signal processing, smooth control.

This Special Issue solicits papers that cover recent developments, demonstrations, and applications for soft material transducers and the enabling design methods and technologies.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

Applied Sciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)