

# Special Issue

## Electrochemical and Electromechanical Actuators

### Message from the Guest Editors

This Special Issue is intended to addresses all aspects of electrochemical and electromechanical actuator research and development. This Special Issue will provide an opportunity for leading researchers to submit their contribution, to share the past, present, and future directions of electrochemical and electromechanical actuators and to discuss their recent research outcomes. Contributions from industries and private sector are encouraged, and both theoretical and experimental works are welcomed. Potential topics include, but are not limited, to:

- Nanomaterial actuators, such as CNT, TMDs, Graphene;
- Ion-exchange polymer–metal composites (IPMCs);
- Electro-active/conducting polymer actuators;
- Ionic liquid actuators;
- Piezoelectric actuators;
- Biomechanical sensors and actuators;
- Fabrication of MEMS sensor and actuators
- 3D printed soft actuators;
- Electromechanical Sensors and microsystem.

---

### Guest Editors

Prof. Dr. Leela Mohana Reddy Arava

Department of Mechanical Engineering, Wayne State University, 42 W Warren Ave, Detroit, MI 48202, USA

Dr. Nirul Masurkar

Department of Mechanical Engineering, Wayne State University, Detroit, MI 48202, USA

---

### Deadline for manuscript submissions

closed (31 December 2017)



# Actuators

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.3



[mdpi.com/si/9054](http://mdpi.com/si/9054)

*Actuators*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
actuators@mdpi.com

[mdpi.com/journal/  
actuators](http://mdpi.com/journal/actuators)





# Actuators

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.3



[mdpi.com/journal/  
actuators](http://mdpi.com/journal/actuators)

## About the Journal

### Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of \$1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

---

### Editors-in-Chief

Prof. Dr. Kenji Uchino

Emeritus Academy Institute, The Pennsylvania State University,  
University Park, PA 16802, USA

Prof. Dr. Norman M. Wereley

Department of Aerospace Engineering, University of Maryland, 3179J  
Martin Hall, College Park, MD 20742, USA

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, Inspec, and  
other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
(Control and Optimization)

