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

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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.

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