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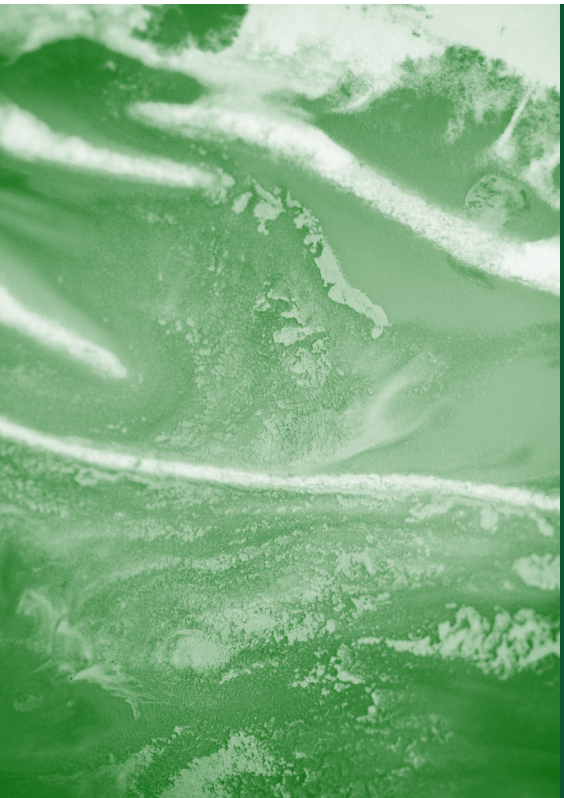
Actuators



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Message from the Editor-in-Chief

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.

Editor-in-Chief
Prof. Dr. Kenji Uchino

Aims

Actuators (ISSN 2076-0825) provides an advanced forum for the science and technology of actuator materials, device design and control systems. It publishes reviews (including comprehensive assessments on complete actuator products), regular research papers and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results as concisely as possible.

Scope

- Control systems, integration of actuators into control systems
- Electromechanical actuators
- Electromagnetic actuators
- Piezoelectric and electrostrictive actuators
- Electrodynamic actuators
- Fluid mechanical actuators
- Pneumatic actuators
- Hydraulic actuators
- Smart actuators
- Magnetostrictive, shape memory and chemical actuators
- Efficiency and operational SFW of actuators

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Rapid Publication

A first decision is provided to authors approximately 16.7 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2023)

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