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Advanced Materials, Sensors and Smart Components for Modern, Intelligent, and Sustainable Vehicles

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Deadline for manuscript submissions:

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Message from the Guest Editors

The progress of modern, intelligent and sustainable vehicles needs an interdisciplinary approach, involving many research areas such as materials science, tribology, etc. and new technologies (preventive maintenance, additive manufacturing, surface coating techniques, etc.).

Besides, new and micro-nano materials, sensors and smart components are fundamental drivers for the development of the new generation vehicles. The aim of this Special Issue is to cover the main aspects of fundamental and applied research in the development of modern, intelligent and sustainable vehicles, such as (but not limited to) the following:

- Nanostructured materials for fluid power systems and automotive
- New materials development and characterizations
- New methods for the modeling and analysis of fluid power and automotive systems and components
- Smart components and innovative sensors
- Sensors networks for IoT applications
- Condition monitoring, predictive maintenance and functional safety of vehicles
- Innovative control strategies and Digital Twins enabled by new sensors
- Eco friendly and Smart fluids



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It is our pleasure to invite you to submit a manuscript for this Special Issue.

Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

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