

Special Issue

Advances in Electric Vehicle Technology

Message from the Guest Editors

Over the past decade, technologies such as high-density lithium-ion batteries, silicon carbide (SiC) inverters, high-power-density permanent magnet machines, and intelligent energy management systems have elevated EVs from experimental prototypes to mainstream commercial solutions. Yet, critical engineering challenges persist in optimizing performance, safety, and scalability—particularly in integrated and high-density electric drive systems, efficient thermal management, and cost-effective manufacturing for mass production. This Special Issue highlights cutting-edge engineering solutions to address these barriers, emphasizing innovations that bridge laboratory research and industrial deployment. Submissions are invited on the following topics (including but not limited to):

- Advanced battery systems;
- Electric machines and drivetrain innovations;
- Power electronics and energy conversion;
- Thermal and energy management;
- System-level optimization and testing.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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