

Special Issue

Advances in Power Electronics: Transformation Technologies and Their Applications in Converter Systems, Wireless Power Transfer, and Electrical Energy Storage Systems

Message from the Guest Editors

Power electronic systems are integral parts of modern electrical energy conversion systems based on traditional and renewable energy sources. Electro-thermal analysis of power electronic circuits and the semiconductors or magnetic components is one of the main stages in the design of electrical energy conversion systems. Electricity storage systems used to store excess energy generated by renewable energy sources are also a very important element of electricity conversion systems. Modern semiconductor devices used in electrical power conversion systems are made using materials with a wide energy bandgap. The use of such devices requires appropriate knowledge in the selection of a suitable control system to ensure the correct operation of these devices. One of the challenges in modern power electronics is also the power supply of hydrogen production systems and their cooperation with fuel cells in order to generate green electricity. Much space in the literature is also devoted to wireless power transmission systems. We welcome submissions addressing, but not limited to, these areas.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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