Special Issue

Recent Advances in Electromagnetic Devices

Message from the Guest Editor

This Special Issue explores the latest developments in the field of electromagnetic technology, focusing on innovations in design, materials, and applications. A central theme of this Special Issue is the optimization of device efficiency, miniaturization, and integration with other technologies. Here are some examples of the key advancements within this field:

- Metamaterials, which enable novel properties and functions not found in natural materials, leading to breakthroughs in antenna design, cloaking, and electromagnetic shielding.
- Wireless power transfer has gained momentum, allowing for efficient energy transmission over short and long distances with applications in consumer electronics and electric vehicles.
- Electromagnetic actuators and sensors, which have the potential to improve robotic systems, medical devices, and aerospace engineering.
- Optical devices and photonic devices such as lenses, mirrors, microscopes, fiber optics, imaging, sensing, lasers, solar energy harvesting, photodetectors, and biomedical research.

Guest Editor

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