

EDITORIAL

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This issue (Vol. 6 No. 1) provides a wide exploration of topics related to electromagnetic fields and energy, encompassing areas such as energy utilization, renewable energy, the relationship between energy and food, and electric energy. Among the articles featured in this issue, problems related to electric energy are discussed the most frequently. With the rapid development of economy and science technology along with the improvement of people's living standards, issues about the relationship between energy and environment and how to safely use energy and save energy are of great importance. Besides, in this issue, the sustainability of the use of energy receives much attention.

Articles in this issue offers effective solutions for the challenges arising from energy consumption and supply. For example, Lehner *et al.*^[1] highlighted that in order to ensure a balance power in the power grid, energy storage is required and found that the power-to-gas technology can achieve the goal of long-term storage of renewable energy and relief of the electricity grids. Furthermore, energy, as an important resource in human society, has a close relationship with the environment. Since people's awareness of environmental preservation is much stronger than before, the application and development of renewable energy are also explored in this issue. Arbouz^[2] has successfully developed efficient, low-cost, stable, and non-toxic tandem devices based on lead-free and inorganic perovskite.

Additionally addressed within this issue is the topic of the electromagnetic field. Razek^[3], the research director of Laboratoire de Génie Electrique et Electronique de Paris, delved into the potential health effects of radiofrequency electromagnetic field exposure and explored the thermal effects of electromagnetic origin, from heating processes to biological disturbances due to field exposure.

In a word, this issue highly focuses on the impact of energy on humans, and presents a series of research topics related to energy and electromagnetic fields, as well as solutions to related problems.

We deeply appreciate the authors' permission to share their valuable ideas.

Conflict of interest

The author declares no conflict of interest.

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