

Special Issue

Metal Oxides Based Futuristic Resistive Switching and Triboelectric Energy Harvesting

Message from the Guest Editors

Owing to the development of the Internet of Things (IoT) and artificial intelligence (AI), the world has started to embrace complex distributed arrays of electronics and sensors, which create an urgent demand for distributed energy harvesters. In recent years, energy-harvesting devices have attracted tremendous attention, and a variety of energy-harvesting devices are now available for harnessing various types of energies. Among them, triboelectric nanogenerators (TENGs) are a novel energy-harnessing technology that can transform ubiquitous mechanical energy into valuable electricity based on the coupling effect of contact electrification and electrostatic induction. The transition metal oxide-based composites comprising antiferromagnetic and ferromagnetic constituents are of particular unique interest due to their large tunability, culminating in potential triboelectric technological applications. This Special Issue will include research, review, and comment articles related to metal oxide-based energy harvesting, considering various random motions in the universe.

Guest Editors

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Deadline for manuscript submissions

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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