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## Journal launch: Welcome Opto-Electronic Science

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Optics is an ancient and vibrant subject with a rich history of thousands of years. Since Maxwell discovered that light is an electromagnetic wave, optics has always been accompanied by electricity. Optics and opto-electronics play a vital role in many key fields related to the development and progress of mankind, such as energy, information, internet, astronomy, and medicine, etc. Many large-scale scientific projects, ranging from laser nuclear fusion to gravitational wave detection, from large-aperture telescopes to lithography equipment, are mainly based on opto-electronic science.

In the history of scientific development, the opto-electronic discipline is also extremely important. A large number of Nobel Prize winning works on Theory of relativity, Quantum theory, Lasers, Laser cooling, Light-emitting diodes, and Topological phase transitions, are deeply rooted in opto-electronic science.

Nowadays, there are still many unaddressed issues in the field of opto-electronic science, in particular the optical diffraction limit, the coupling of photons and electrons, new opto-electronic materials, and the analogy between topological electron and topological photon related effects, which require our in-depth investigations. New breakthroughs, new paradigms and new horizons in fundamental research are therefore needed.

To promote discussions among scientific community and interdisciplinary collaboration, here we announce the launch of a new journal, *Opto-Electronic Science*, to display the emerging groundbreaking research focused on opto-electronics, and to encourage researchers to discover more the nature of science.

*Opto-Electronic Science* (OES) is founded and sponsored by the Institute of Optics and Electronics (IOE), Chinese Academy of Sciences (CAS), which is a crucial

research institute in the field of opto-electronics in China, with a glorious history of over 50 years. OES is an open-access journal to promptly publish peer-reviewed Articles, Letters, Reviews, and Editorials, etc. This new journal will focus more on theoretical and fundamental innovations covering the broad area of optics, photonics and opto-electronics. Selected as a China's high-profile new journal, it is supported by China Association for Science and Technology (CAST).

We are very honored in assembling an outstanding editorial board of world-leading scientists who are actively engaged in the research community. They are dedicated to select effective professional reviewers and manage the high-standard peer-reviewing processes of the manuscripts with their expertise and insight. OES has firm supports from the excellent editorial team of its sister journal *Opto-Electronic Advances* (OEA).

We are looking forward, with the most excellent contributions from the community, to making *Opto-Electronic Science* an outstanding platform for exhibiting the finest fundamental innovations in opto-electronics and related disciplines. We also hope that it will bring new inspirations for researchers and usher them into the exciting and bright future of opto-electronics science.

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