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Advances in Multimaterial Fibers and Devices

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Message from the Guest Editors

Dear Colleagues,

In the 1960s, Dr. Charles Kuen Kao (The Nobel Prize Winner of Physics 2009) discovered optical fibers, which were multimaterial silica fibers in a broad sense with a higher refractive index of doped silica cores and a relatively lower refractive index of pure silica claddings. Multimaterial silica fibers open a new door for transmitting light and information to thousands of homes by total internal reflection at the core/cladding interface. Furthermore, increasing efforts have been made to develop the field of optical fiber networks and optical data communications, which has become an indispensable part of modern life.

In this Special Issue, we welcome research on multimaterial fibers and devices, including, but not limited to, the discovery of new fiber materials by preparing glass-clad/polymer multimaterial fibers and designing fiber-based devices comprising conductor, semiconductor, single crystal, polycrystal, nanocrystal, quantum dot, low-temperature glass, rare-earth ions doped core glass, and dissimilar core-clad materials.



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Special Issue



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Message from the Editor-in-Chief

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