Special Issue

Design and Study of Type-2 Superlattice Photodetectors

Message from the Guest Editors

In the last two decades, there has been a drastic change in research and applications of strain-layer type-II superlattice (T2SL) infrared photodetectors. Given the unique flexibility of the T2SL material in covering all infrared spectrums, along with the capability of precise bandgap engineering and availability of lattice-matched substrate, this trend is expected to continue at an even faster rate. Already, novel devices have been proposed based on T2SL material exploring different applications in military, industry, health and medicine. This trend seems to be moving forward at a faster pace toward the third generation of infrared detectors (multispectral imaging, multicolor functionality and other on-chip functions). In this framework, we are glad to edit this Special Issue on "Design and Study of Type-2 Superlattice Photodetectors". This Special Issue aims to provide an overview of the newest and most innovative research work in all aspects of type-2 superlattice photodetectors, including (but not limited to) material design, growth, fabrication, passivation, device design, testing, as well as prospects for future development and applications.

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Deadline for manuscript submissions

closed (30 March 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/99971

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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