



Novel Optoelectronic Applications of Amorphous and Nanocrystalline Semiconductors

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Message from the Guest Editors

It is well known that the electronic and optical properties of the films are strongly influenced by deposition techniques and conditions. While these techniques have reached a stable maturity and quality, due to the large investment in the mass production of a-Si:H solar cells and thin film transistors for active matrix flat panel displays, the same technology has also been demonstrated to be successful in producing new micro/nanocrystalline materials, paving the way for a wide range of novel materials and applications. Micro- and nanocrystalline semiconductors, which are not limited to amorphous silicon and group IV elements but also include alloys, chalcogenide glasses, oxide semiconductors and hybrid perovskites, represent a key technology for low-cost optoelectronic devices for the future, enabling the integration of LEDs, photovoltaic cells, sensors, thin film transistors and other optoelectronic and photonic structures into the future IoT technology paradigm.

Our Special Issue is to present an insight into the recent advances in amorphous and nanocrystalline materials for novel optoelectronic applications. It is our pleasure to invite you to submit a manuscript.





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Message from the Editor-in-Chief

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