Preliminary Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

2D Material Optoelectronics

Submission Deadline: April 1, 2016
Hard Copy Publication: Jan/Feb 2017

The IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) invites manuscript submissions in the area of 2D Material Optoelectronics. The purpose of this issue of JSTQE is to highlight the recent progress and trends in the research of 2D optical materials and devices. Graphene, a single layer of carbon atoms assembled in a honey-comb lattice, has attracted significant attention from the photonics community since 2004, due to its strong interaction with light and potential applications in a broad wavelength range. Other than metallic graphene, transition metal dichalcogenides (TMDCs) and insulating hexagonal boron nitride (hBN) also exhibit very interesting optical properties and are widely explored. Recently the rediscovered 2D layered black phosphorus with a widely tunable bandgap by layer number has joined the 2D materials family, leading to new opportunities in optoelectronics. Collectively 2D materials with very different properties and their heterostructures offer numerous opportunities for the discoveries of new optical science and the realization of novel optical devices.

Specific areas of interest in 2D materials include (but are not limited to):

- Light emitting diodes and lasers
- Photodetectors and modulators
- Ultrafast optical phenomena
- Plasmonics
- Non-linear optics
- Integrations of 2D and traditional materials
- Applications of 2D materials in communications, imaging, and sensing

The Primary Guest Editor for this issue is Fengnian Xia, Yale University, USA. The Guest Editors are: TBA

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For inquiries, please contact:
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The following documents are required during the mandatory online submission at: http://mc.manuscriptcentral.com/jstqe-pho.

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