

## Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

### Photonics for Synthetic Dimension and Topological Insulators

Submission Deadline: February 1, 2020

Hard Copy Publication: November/December 2020

The **IEEE Journal of Selected Topics in Quantum Electronics** (JSTQE) invites manuscript submissions in the area of **Photonics for Synthetic dimension and topological insulators** submissions in the area of topological photonics and of optoelectronic devices whose operation relies on topological features:

- analogue quantum Hall systems
- analogue quantum spin Hall systems
- Floquet topological insulators
- topological pumps
- honeycomb lattices and Dirac points
- three-dimensional Weyl systems
- synthetic dimensions and high-dimensional photonics
- non-Hermitian topological photonics
- gyromagnetic photonic crystals
- topological metamaterials
- spin-orbit coupling for light
- exciton-polariton systems in microcavities
- topological matters based on cavity- and circuit-QED
- topological nonlinear optical systems
- topological optical solitons and vortices -optical-nonlinearity-induced topological phase transitions
- optical isolators and robust transport
- angular-momentum- and frequency-multiplexing
- topological lasers
- valleytronics
- quantum interference of topological edges
- Photonic molecules

The Primary Guest Editor for this issue is **Lorenzo Pavesi**, University of Trento, Italy. The Guest Editors of the issue are **Iacopo Carusotto**, CNR Trento, Italy; **Zheng-Wei Zhou**, USTC, China; **Oded Zilberberg**, ETH Zurich.

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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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2) MS Word document with full contact information for all authors as indicated below:

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