applied sciences

IMPACT FACTOR 2.7

CITESCORE 4.5

an Open Access Journal by MDPI

Novel Insights into Orbital Angular Momentum Beams: From Fundamentals, Devices to Applications

Guest Editors:

Prof. Dr. Yang Yue

Dr. Hao Huang

Dr. Yongxiong Ren

Prof. Dr. Zhongqi Pan

Prof. Alan E. Willner

Deadline for manuscript submissions:
closed (30 April 2019)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to explore the novel insights of OAM beams. It will focus on state-of-the-art advances in fundamental theories, devices and applications, as well as future perspectives of OAM beams. Topics of interest include, but are not limited to, the following areas:

- Fundamental principles and properties of structured light beams.
- Technology and device to generate, manipulate and detect OAM light beams.
- Micromanipulation using OAM beams, such as optical tweezers, optical trapping, particle acceleration.
- Spectroscopy, microscopy, imaging, sensing technology using vortex beams.
- Light-matter interaction by vortex beams, including laser machining and nonlinear interactions.
- OAM-based spatial mode encoding/multiplexing for quantum cryptography and classical communications.

Guest Editors

applied sciences

IMPACT FACTOR 2.7

CITESCORE 4.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci