

Special Issue

Physics of Light-Matter Coupling in Nanostructures

Message from the Guest Editors

This Special Issue is devoted to the 23rd International Conference on Physics of Light–Matter Interaction in Nanostructures (PLMCN-23). Its focus is on the fundamental and technological issues faced in the realization of a new generation of opto–electronic devices based on advanced low-dimensional and photonic structures, such as low-threshold polariton lasers, new optical switches, single-photon emitters, photonic band-gap structures, etc. This issue reviews recent achievements in the fundamental understanding of strong light–matter coupling, and follows progress in the development of epitaxial and processing technologies related to wide-gap semiconductors, organic nanostructures, and microcavities, providing the basis for advanced optical studies. Results in emerging fields such as carbon nanotubes, quantum information, and unconventional optical computing are also welcome.

Guest Editors

Prof. Dr. Alexey Kavokin

Department of Physics, School of Science, Westlake University, No.18 Shilongshan Road Cloud Town, Xihu District, Hangzhou 310024, China

Dr. Helgi Sigurdsson

School of Engineering and Natural Sciences, University of Iceland, Reykjavik, Iceland

Deadline for manuscript submissions

closed (30 June 2023)



Condensed Matter

an Open Access Journal
by MDPI

Impact Factor 1.5
CiteScore 2.7



mdpi.com/si/158749

Condensed Matter
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
condensedmatter@mdpi.com

[mdpi.com/journal/
condensedmatter](https://mdpi.com/journal/condensedmatter)





Condensed Matter

an Open Access Journal
by MDPI

Impact Factor 1.5
CiteScore 2.7



[mdpi.com/journal/
condensedmatter](https://mdpi.com/journal/condensedmatter)



About the Journal

Message from the Editor-in-Chief

Welcome to *Condensed Matter* (ISSN 2410-3896)! It gives me great pleasure to invite you to publish in the journal. We are looking to build a collection of high quality research articles, supported by a community from across the field of condensed matter physics. In this task, I will be assisted by a highly qualified editorial board. We accept papers on basic research as well as applications, and experimental or theoretical work. Currently the journal is indexed by ESCI (Web of Science) and hope you can consider *Condensed Matter* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Antonio Bianconi
Rome International Center for Materials Science Superstripes
(RICMASS), Via dei Sabelli 119A, 00185 Rome, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the second half of 2025).