

## Special Issue

# Complexity in Quantum Materials: In Honor of Prof. K.A. Müller

### Message from the Guest Editors

This Special Issue of the *Condensed Matter* journal is dedicated to *Complexity in Quantum Materials* collecting the papers presented at the K. Alex Müller Workshop held in Erice-Sicily August 3–9, 2023, and related matter. The topics cover in advances in understanding the key role of quantum complexity and intrinsic role of heterogeneity in unconventional quantum functionalities in condensed matter made of multiple chemical and electronic components at the nanoscale. The topics cover studies on first order structural phase transitions with emerging chemical nanoscale phase separation, dynamics of non-linear systems, Rashba spin–orbit coupling at interfaces in low dimension, pseudo Jahn Teller polarons, Majorana fermions, Majorana exchange interaction, unconventional electron–phonon interaction, electronic inhomogeneities, polarons condensation and pairing, symmetry and heterogeneity, superstripes, multi-condensates, BEC–BCS crossover, topological materials, ferroelectrics, and so on.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2025)



## Condensed Matter

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## 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.

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### Editor-in-Chief

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