



Quantum Materials: Superconductivity and Topology

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Deadline for manuscript submissions:

closed (31 March 2022)

Message from the Guest Editors

Quantum materials (QMs) refer to those solids with exotic physical properties and/or emergent phenomena stemming from quantum-mechanical principles. Examples of QMs include unconventional superconductors, quantum spin liquid, topological quantum matter, and some two-dimensional materials, in which electronic correlations and/or topology play a crucial role in the underlying physics. QMs not only provide an exceptional venue for discovering new states of matter, but they are also highly expected to be applied to next-generation technologies coping with energy need and information innovation.

This Special Issue covers various research topics on QMs that are mostly associated with electronic correlations and topology. The topics include unconventional superconductivity, topological superconductivity, Majorana fermions, novel topological quantum states, etc.

QMs are not only an emerging field but also an interdisciplinary science. We believe that this collection will contribute to the field with important discoveries and innovative ideas. Original research papers and review articles related to the above-mentioned topics are cordially invited.





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Message from the Editor-in-Chief

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