

## Special Issue

# Quantum Memory: From Theory to Applications

### Message from the Guest Editor

Quantum memories are devices that can store quantum information and retrieve it intact and on demand. They are required both for stationary and flying qubits, for applications in all areas of quantum information processing. There are many quantum memory protocols using various material platforms, from nuclear spins to optical cavities, each with its own advantages and optimal application. The purpose of this Special Issue is to bring together contemporary research works on quantum memories using various platforms and protocols, presenting a wide picture of the current frontiers in this diverse and rapidly growing field. I will be very happy to receive your contribution.

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### Guest Editor

Dr. Eilon Poem-Kalogerakis

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### Deadline for manuscript submissions

closed (31 December 2022)



## Applied Sciences

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### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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