



Advances in Chemical Physics, Volume 154: Quantum Information and Computation for Chemistry

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Examines the intersection of quantum information and chemical physics

The *Advances in Chemical Physics* series is dedicated to reviewing new and emerging topics as well as the latest developments in traditional areas of study in the field of chemical physics. Each volume features detailed comprehensive analyses coupled with individual points of view that integrate the many disciplines of science that are needed for a full understanding of chemical physics.

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With contributions from an international team of leading experts, *Volume 154* offers seventeen detailed reviews, including:

- Introduction to quantum information and computation for chemistry
- Quantum computing approach to non-relativistic and relativistic molecular energy calculations
- Quantum algorithms for continuous problems and their applications
- Photonic toolbox for quantum simulation
- Vibrational energy and information transfer through molecular chains
- Tensor networks for entanglement evolution

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