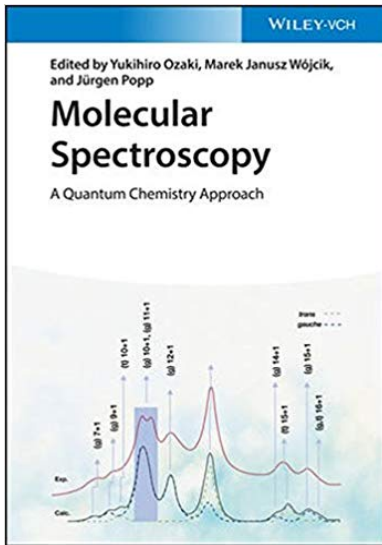


Uniquely creates a strong bridge between molecular spectroscopy and quantum chemistry



分子分光学 - 量子化学的アプローチ Molecular Spectroscopy

A Quantum Chemistry Approach

Edited by **YUKIHIRO OZAKI**, *Nishinomiya, Japan*,
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2019年6月出版予定 648 ページ ハードカバー ¥68,530

Published by Wiley-VCH ISBN 9783527344611

This two-volume book consists of many reviews reporting new applications of quantum chemistry to molecular spectroscopy (Raman, infrared, near-infrared, terahertz, far-ultraviolet, etc.). It contains brief introductions to quantum chemistry for spectroscopists, and to the recent progress on molecular spectroscopy for quantum chemists. *Molecular Spectroscopy: A Quantum Chemistry Approach* examines the recent progress made in the field of molecular spectroscopy; the state of the art of quantum chemistry for molecular spectroscopy; and more. It offers multiple chapters covering the application of quantum chemistry to: visible absorption and fluorescence, Raman spectroscopy, infrared spectroscopy, near-infrared spectroscopy, terahertz spectroscopy, and far-ultraviolet spectroscopy. It presents readers with hydrogen bonding studies by vibrational spectroscopy and quantum chemistry, as well as vibrational spectroscopy and quantum chemistry studies on both biological systems and nano science. The book also looks at vibrational anharmonicity and overtones, and nonlinear and time-resolved spectroscopy.

- ◇ Comprehensively covers existing and recent applications of quantum chemistry to molecular spectroscopy
- ◇ Introduces the quantum chemistry for the field of spectroscopy and the advancements being made on molecular spectroscopy for quantum chemistry
- ◇ Edited by world leading experts who have long standing, extensive experience and international standing in the field

Molecular Spectroscopy: A Quantum Chemistry Approach is an ideal book for analytical chemists, theoretical chemists, chemists, biochemists, materials scientists, biologists, and physicists interested in the subject.



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