



Advances in Molecular Physics and Optical Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Molecular materials constitute the basis and are the cornerstone for the development of materials with a plethora of applications (e.g., drug design, optoelectronics, and energy storage). The aim of this Special Issue is to highlight recent advances in the physics underlying various phenomena governed by the interaction of light with matter on a molecular basis and how tailoring of the interaction could lead to the development of state-of-the-art molecular materials.

- Development of hybrid organic–inorganic materials (e.g., MOFS and COFS) as non-linear optical materials.
- Physics and chemistry of molecular materials.
- Novel approaches for the simulation of the interaction of light with molecular materials.
- Molecular inorganic conductors and superconductors.
- Theory and simulation of non-linear optics.
- Quantum chemistry and non-linear optics.
- Quantum dots.
- Rigorous theories for the description of the polarization effects in matter.

Dr. Aggelos Avramopoulos
Guest Editor





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Message from the Editor-in-Chief

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