

ELECTRONIC PROPERTIES OF CONJUGATED POLYMERS%0A

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[Electronic, Structural, and Optical Properties of ...](#)

We present a first-principles study of the structural, electronic, and optical properties of four conjugated polymers, poly(p-phenylene) (PPP), poly(2,7-fluorene) (PF), poly(2,7-carbazole) (PC), and poly(2,7-boraffluorene) (PBF), and of their isolated constituent molecules. All the calculations were done using density-functional theory (DFT) with a plane-wave basis set, pseudopotentials, and

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It then relates these properties to experimental observations in real systems, particularly to linear polyenes and the phenyl-based light emitting polymers. A number of important optical and electronic processes in conjugated polymers are also described, including non-linear optical properties, exciton transfer and migration, and dispersion interactions. There are numerous appendices containing more detailed technical explanations of the core material.

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[Electronic Properties of Conjugated Polymers](#) Proceedings of an International Winter School, Kirchberg, Tirol, March 14-21, 1987

[Synthesis, electrical, and optical properties of ...](#)

The discovery of the opto-electronic properties of conjugated polymers played a major role in this development. Further improvements such as externally initiated polymerization not only enabled

[Electronic and Optical Properties of Conjugated Polymers ...](#)

William Barford's [Electronic and Optical Properties of Conjugated Polymers](#) is a theoretical complement to the high experimental culture of British research on conjugated polymers. Currently, the semiconducting properties of undoped, conjugated polymers are the focus of that research interest.

[Review of electronic and optical properties of ...](#)

A general overview of the optoelectronic properties of π -conjugated polymers is presented. Two types of polymer are discerned: interchangeable structures of the same energy (degenerate), such as polyacetylene; and non-

degenerate polymers, such as poly(para -phenylene).
Electronic and Optical Properties of Conjugated Polymers ...

Explains the photo-physical properties of conjugated polymers in terms of the theory of electronic states. Includes an up-to-date survey of the experimental and theoretical developments, with a comprehensive literature list.

Conjugated Polymer - an overview | ScienceDirect Topics

Conjugated polymers have unique material properties that make them promising for a wide range of applications. The potential lies in the virtually infinite possibilities for creating new materials for specific applications by simply chemically tuning the molecular structure.

Effect of Acceptor Strength on Optical and Electronic ...

The electronic structure calculations of the repeating units of the polymers indicated the localization of the molecular orbitals in different co-monomers. As the difference between the electron affinities of the co-monomers in the repeating units decreases, the highest occupied and lowest unoccupied molecular orbitals become more distributed. All the measurements suggest that a large

The electronic structure and optical properties of ...

Synthesis and investigation of new conjugated polymers are essential to improving the electronic and optoelectronic properties of these materials and in turn improvement of the performance of the devices. One approach to address the deficiency is the modification of chemical structures through the incorporation of charge carriers in to the polymer backbone. Recently, 2,7-carbazole derivatives