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Title: Towards a comprehensive understanding of molecular doping organic semiconductors (Review)

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## Highlights

- Overview of applications employing molecular electrical doping
- Experiments performed to elucidate the microscopic processes of molecular electrical doping
- Overview of models established for the fundamental processes involved
- Role of ground-state charge transfer complex formation in molecular electrical doping
- Fundamental differences in the molecular doping of conjugated oligo- and polymers

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