

# Molecular electronics: an Australian perspective

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## ABSTRACT

Molecular electronics is a scientific endeavour that, for 60 years, has offered the promise of new technologies in which molecules integrate with, if not entirely replace, semiconductor electronics. En route to the attainment of these ambitious goals, central aspects underpinning the pursuit of this science have proven critical to the development of related technologies, including organic photovoltaics (OPV) and organic light-emitting diodes (OLEDs). Looking ahead, new opportunities in the field abound, from the study of molecular charge transport and the elucidation of molecular reaction mechanisms, to the development of biocompatible and degradable electronics, and the construction of novel chemical sensors with exquisite sensitivity and specificity. This article reviews historical developments in molecular electronics, with a particular focus on Australia's contributions to the area. Australia's current activity in molecular electronics research is also summarised, highlighting the capacity to both advance fundamental knowledge and develop new technologies. Scientific aspects considered include capabilities in: single molecule and molecular–monolayer junction measurement; spectroscopic analysis of molecular components and materials; synthetic chemistry; computational analysis of molecular materials and junctions; and the development of theoretical concepts that describe the electrical characteristics of molecular components, materials and putative device structures. Technological aspects considered include various aspects of molecular material design and implementation, such as: OPV and OLED construction, sensing technologies and applications, and power generation from heat gradients or friction. Missing capabilities are identified, and a future pathway for Australian scientific and technological development envisaged.

**Keywords:** electron transfer, electron transport, molecular devices, molecular electronics, molecular switches, nanotechnology, organic electronics, technology relevance levels.

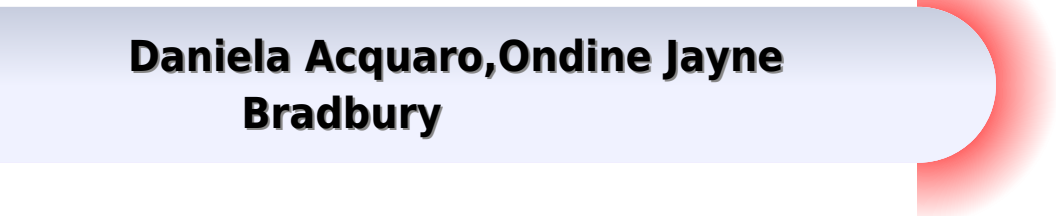
## Molecular electronics and its community of allied endeavour

Molecular electronics, at its most basic level, involves processes in which electrical current is passed between two macroscopic electrodes through single molecules. The core concepts and ideas apply also to small collections of molecules, as well as to very many molecules arranged in well-ordered monolayers, contacted between the electrode surfaces. The molecular components in these electrode–molecule–electrode junctions, although often synthetic and designed to feature or test some specific structure–property relationship, can be drawn from across the chemical and biological landscape. In essence, molecular electronics is concerned with, and driven by, the charge injection processes at the molecule–electrode interface and associated details of the molecule–electrode coupling, linked with intramolecular charge transport properties (Fig. 1a). In film-based devices, intermolecular charge transfer may also play a role in the overall electrical response of the ‘large area’ junction (Fig. 1b). As such, the science of molecular electronics underpins studies of biological processes involving electron transport, as well as charge injection and transport in conducting polymers and organic semiconductors.

Many of the concepts involved in molecular electronics research also strongly overlap with exciton science, as the motion of excitons through molecular materials can be considered as the coupled transport of opposite charges; consequently, much of the

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1. Understanding the eBook Science An Australian Perspective Yr 9
  - The Rise of Digital Reading Science An Australian Perspective Yr 9
  - Advantages of eBooks Over Traditional Books
2. Identifying Science An Australian Perspective Yr 9
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Science An Australian Perspective Yr 9
  - User-Friendly Interface
4. Exploring eBook Recommendations from Science An Australian Perspective Yr 9
  - Personalized Recommendations
  - Science An Australian Perspective Yr 9 User Reviews and Ratings
  - Science An Australian Perspective Yr 9 and Bestseller Lists
5. Accessing Science An Australian Perspective Yr 9 Free and Paid eBooks

- Science An Australian Perspective Yr 9 Public Domain eBooks
- Science An Australian Perspective Yr 9 eBook Subscription Services
- Science An Australian Perspective Yr 9 Budget-Friendly Options
- 6. Navigating Science An Australian Perspective Yr 9 eBook Formats
  - ePub, PDF, MOBI, and More
  - Science An Australian Perspective Yr 9 Compatibility with Devices
  - Science An Australian Perspective Yr 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Science An Australian Perspective Yr 9
  - Highlighting and Note-Taking Science An Australian Perspective Yr 9
  - Interactive Elements Science An Australian Perspective Yr 9
- 8. Staying Engaged with Science An Australian Perspective Yr 9
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Science An Australian Perspective Yr 9
- 9. Balancing eBooks and Physical Books Science An Australian Perspective Yr 9
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Science An Australian Perspective Yr 9
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Science An Australian Perspective Yr 9
  - Setting Reading Goals Science An Australian Perspective Yr 9
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science An Australian Perspective Yr 9
  - Fact-Checking eBook Content of Science An Australian Perspective Yr 9
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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