

## Challenges and prospects in organic photonics and electronics

Research developments across organic photonics and electronics have highlighted the essential role of organic photovoltaics (OPVs), organic field-effect transistors (OFETs), and organic light-emitting diodes (OLEDs) in many future technologies. Although significant improvements in the technologies have been made and some materials are already commercialised, this is a continuously developing area of research with further challenges to address.

The Faraday Discussion is a perfect format for this, as the papers and discussions will cover interdisciplinary and exciting topics from chemistry, physics, biology, and integrated fields to focus on solutions to current challenges in organic photonics and electronics.

This volume brings together established and early-career scientists, post-graduate students and industrial researchers to cover a wide range of topical subjects across organic photonics and electronics and related fields.

In this volume the topics covered are organised into the following themes:

- Organic neuromorphics and bioelectronics
- Organic batteries
- Excitonic organic materials for photochemical and optoelectronic applications
- Organic thermoelectrics

Front cover image: Small-molecule sensing on flexible biosensors via integration of structure-switching aptamers on polymer-coated carbon nanotubes.

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# Faraday Discussions

## Volume: 250

**Faraday Discussions** documents a long-established series of Faraday Discussion meetings which provide a unique international forum for the exchange of views and newly acquired results in developing areas of physical chemistry, biophysical chemistry and chemical physics.

The papers presented are published in the Faraday Discussion volume together with a record of the discussion contributions made at the meeting. Faraday Discussions therefore provide an important record of current international knowledge and views in the field concerned.

ISBN 978-1-83767-275-2



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