

Molecular Aggregation Analysis Lab.
Institute for Chemical Research, Kyoto University
(Department of Chemistry, Graduate School of Science, Kyoto University)

Research Information

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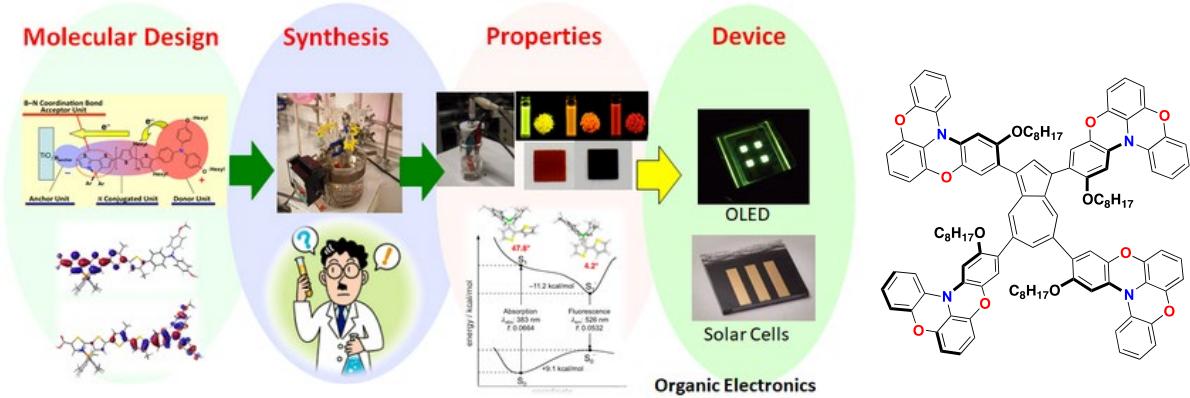
Staff: Assistant Prof. Tomoya Nakamura



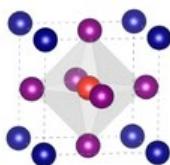
Research Field

Topics

- 1) Chemistry of new pi-conjugated molecules and materials
- 2) Creation of a functional pi-electron system utilizing the characteristics of elements
- 3) Printable electronics: Development of next-generation solar cells

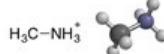


ABX₃-type perovskite

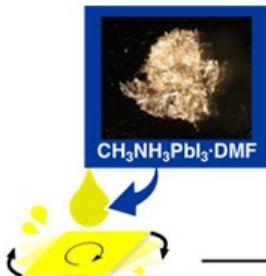
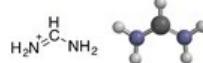


● : A site (MA⁺, FA⁺, Cs⁺, ...)
● : B site (Pb²⁺, Sn²⁺)
● : X site (I⁻, Br⁻, Cl⁻)

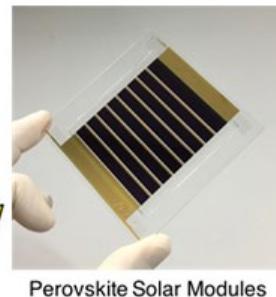
Methylammonium (MA⁺)



Formamidinium (FA)



- High purity (99.998%)
- High solubility in DMSO



Perovskite Solar Modules



<https://www.scl.kyoto-u.ac.jp/~wakamiya/index.html>