



HOKKAIDO UNIVERSITY

AMBITIOUS LEADER'S PROGRAM

Fostering Future Leaders to Open New Frontiers in Materials Science

Ambitious 物質科学セミナー

α -Addition of Phosphines to Oligoynoates and New Functional Fullerene Derivatives as n-Type Materials in Organic Photovoltaics

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北海道大学 理学部本館 N-308

Recently, we have developed an unusual α -addition reaction that has been quite rare cases in traditional organophosphine chemistry with alkenoates, alkynoates, and allenoates. This synthetic methodology has been utilized to prepare bioactive oxindoles, isatins, isoxazolinones, lactones, lactams and furans as well as functional fullerenes as efficient n-type materials in organic photovoltaic application.

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