



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**

## Synthesis of Acetylenic Derivatives from Calcium Carbide: a New Sustainable Chemical Feedstock

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**北海道大学 理学部本館 N-308**

In this work, we demonstrated the use of calcium carbide which is a low price primary feedstock from heavy chemical industry for the synthesis of acetylenic compounds such as diarylethynes, poly-phenyleneethylene, arylpyroles and vinyl indole in one step fashion. The processes provide high yields of acetylenic derivatives in comparable or better yield than conventional methods. It is also less complicate and cheaper to carry out.

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