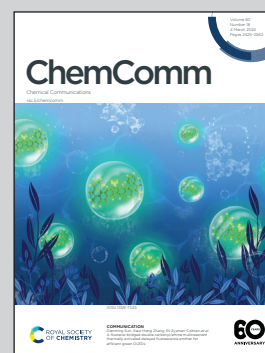


Showcasing research from Professor Fuse's laboratory,  
Graduate School of Pharmaceutical Sciences,  
Nagoya University, Japan.

Micro-flow heteroatom alkylation *via* TfOH-mediated  
rapid *in situ* generation of carbocations and subsequent  
nucleophile addition

Highly active carbocations were rapidly (0.5 s) generated  
from diarylmethanol and strong Brønsted acid, TfOH, and  
the generated carbocations were rapidly (1.0 s) reacted with  
nucleophiles in a micro-flow reactor. Our approach enabled  
the use of highly basic nucleophiles.

As featured in:



See Yuma Matsuura and  
Shinichiro Fuse,  
*Chem. Commun.*, 2024, **60**, 2497.