

Catalytic aromatic functionalization inspired and accelerated by interdisciplinary studies

We are particularly interested in development of new reactions that allows to access novel functional  $\pi$ -aromatic molecules. In order to synthesize such structurally new  $\pi$ -aromatics, we have focused on two-types of reactions: one is construction of  $\pi$ -aromatic cores and the other is direct functionalization of arenes. Recent progress on our new methodology will be discussed in detail.