This Special Topic, edited by Erick Carreira, highlights recent advances in organonickel chemistry. Nickel catalysts have been applied in a wide range of organic transformations, for example, in nickel-catalyzed C–C bond-forming reactions. Various research groups greatly expand the use of nickel catalysts and present their latest results herein.

**Advanced Strategies in Synthesis with Nickel**

**Y. Peng**

This reaction involves the use of a Ni catalyst for the transformation of an N-acylsuccinimide into a half-twisted amide.

**M. Szostak**

The reaction involves the use of a Ni catalyst for the transformation of an alkyl radical into a functionalized product.

**C. Aissa**

The reaction involves the use of a Ni catalyst for the transformation of an alkyl radical into a functionalized product.

**J. Ichikawa**

The reaction involves the use of a Ni catalyst for the transformation of an alkyl radical into a functionalized product.

**T. Hosoya**

The reaction involves the use of a Ni catalyst for the transformation of an alkyl radical into a functionalized product.