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**

- **M. Szostak**
  - Reaction scheme:
    - **Ni catalyst**
    - \[ \text{[N–C activation]} \]
    - \( \text{N-acylsuccinimide = half-twisted amide} \)
  - Examples:
    - \( R_1 = n\text{-Bu}, R_2 = (9:1 \text{ regioselectivity}) \)
    - \( R_1 = n\text{-Bu}, R_2 = (5:1 \text{ regioselectivity}) \)

- **C. Aissa**
  - Reaction scheme:
    - \( \text{Ni catalyst} \)
    - \( R_1 \text{ and } R_2 \text{ regioselectivity} \)
  - Examples:
    - \( R_1 = n\text{-Bu}, R_2 = \)

- **T. Hosoya**
  - Reaction scheme:
    - \( \text{NiBr}_2\cdot\text{glyme} \)
    - \( \text{LiBr, Mn}^0 \text{ DMF, } 40 \degree \text{C} \)
    - \( 27 \text{ examples} \)
    - \( 12–94\% \)