**Adhesive Immobilization of Polymer-Stabilized Pd Nanoparticles on Cellulose**

**Significance:** Adhesive immobilization of palladium nanoparticles on cellulose using hyperbranched polystyrene [Pd@HPS-N(C₁₂H₂₅)₃Cl on cellulose] was developed. The catalyst promoted efficiently the Suzuki–Miyaura coupling, the Mizoroki–Heck reaction, the intramolecular C–H bond arylation, and the hydrogenation. The catalyst was recycled by a tweezers and reused several times.

**Comment:** The catalyst was prepared as follows: A reaction of the hyperbranched polystyrenes having tri(dodecyl)ammonium chloride moieties [HPS-N(C₁₂H₂₅)₃Cl] with Pd₂(dba)₃ was carried out to give the polymer-supported palladium nanoparticles Pd@HPS-N(C₁₂H₂₅)₃Cl. The resulting nanocomposite Pd@HPS-N(C₁₂H₂₅)₃Cl was treated with KI and filter paper (or cotton) as cellulose to afford Pd@HPS-N(C₁₂H₂₅)₃Cl on cellulose.