**Layered Double Hydroxides Supported Nanopalladium
Catalyst for Heck-, Suzuki-, Sonogashira-, and Stille type
Coupling Reactions of Chloroarenes**

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Supporting Information

Figure A. TGA-DTA-MS thermogram of LDH-Pd⁰AR for MeO ($m/z = 31$ a.m.u.) and Me ($m/z = 15$ a.m.u.) in nitrogen atmosphere with an heating rate of 10°C/min.

Figure B. TGA-DTA-MS thermogram of LDH-Pd⁰AR for C₆H₄ (m/z = 76 a.m.u.) and MeOPh (m/z = 107 a.m.u.) in nitrogen atmosphere with an heating rate of 10°C/min.

Figure C. TGA-DTA-MS thermogram of LDH-Pd⁰BR for Phenyl ($m/z = 77$ a.m.u.) and Iodo ($m/z = 127$ a.m.u.) in nitrogen atmosphere with an heating rate of 10°C/min.

Figure D. (a) Activity profile for LDH-Pd⁰ catalyzed Heck reaction of iodobenzene with styrene (left-hand side scale) and (b) the amount of palladium present in solution (right-hand side scale).