Selective Hydrogenation of Nitroarenes Catalyzed by Nanostructured Tungsten Disulfide

**Significance:** Nanostructured tungsten disulfide (2H-WS$_2$) catalyzed the selective hydrogenation of nitroarenes in the presence of other reducible functional groups under H$_2$ (50 bar) to give the corresponding anilines exclusively in >99% conversions with 78 to >99% selectivities.

**Comment:** The preparation of 2H-WS$_2$ was previously reported (B. Mahler, V. Hoepfner, K. Liao, G. A. Ozin J. Am. Chem. Soc. 2014, 136, 14121). In the hydrogenation of 1-nitro-3-vinylbenzene, the catalyst was reused four times without a significant decline in conversion, whereas the selectivity increased during the recycling experiment (fresh: 94% selectivity; 4th reuse: >99% selectivity).