Oxygen deficient Pr₆O₁₁ nanorods supported palladium nanoparticles: highly active nanocatalysts for styrene and 4-nitrophenol hydrogenation reactions

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Table S1 Comparison of the apparent rate constant k for the reduction of 4-NP over different palladium based catalyst systems. The actual weight content of Pd was 1.42 wt%.

Entry	Catalyst	t (min)	k (s ⁻¹)	Ref.
1	Pd/Pr ₆ O ₁₁	3	0.0191	our study
2	PPy/TiO₂/Pd	7	0.0122	[48]
3	Al ₂ O ₃ /Pd	8	0.0112	[49]
4	SPB/Pd	20	0.0441	[50]
5	Fe ₃ O ₄ @C@PtPd	1.3	0.0202	[51]

k: apparent rate constant; t: conversion time.