

Electronic Supplementary Information

Efficient Hole Transfer from Monolayer WS₂ to Ultrathin Amorphous Black Phosphorus

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Power Dependence

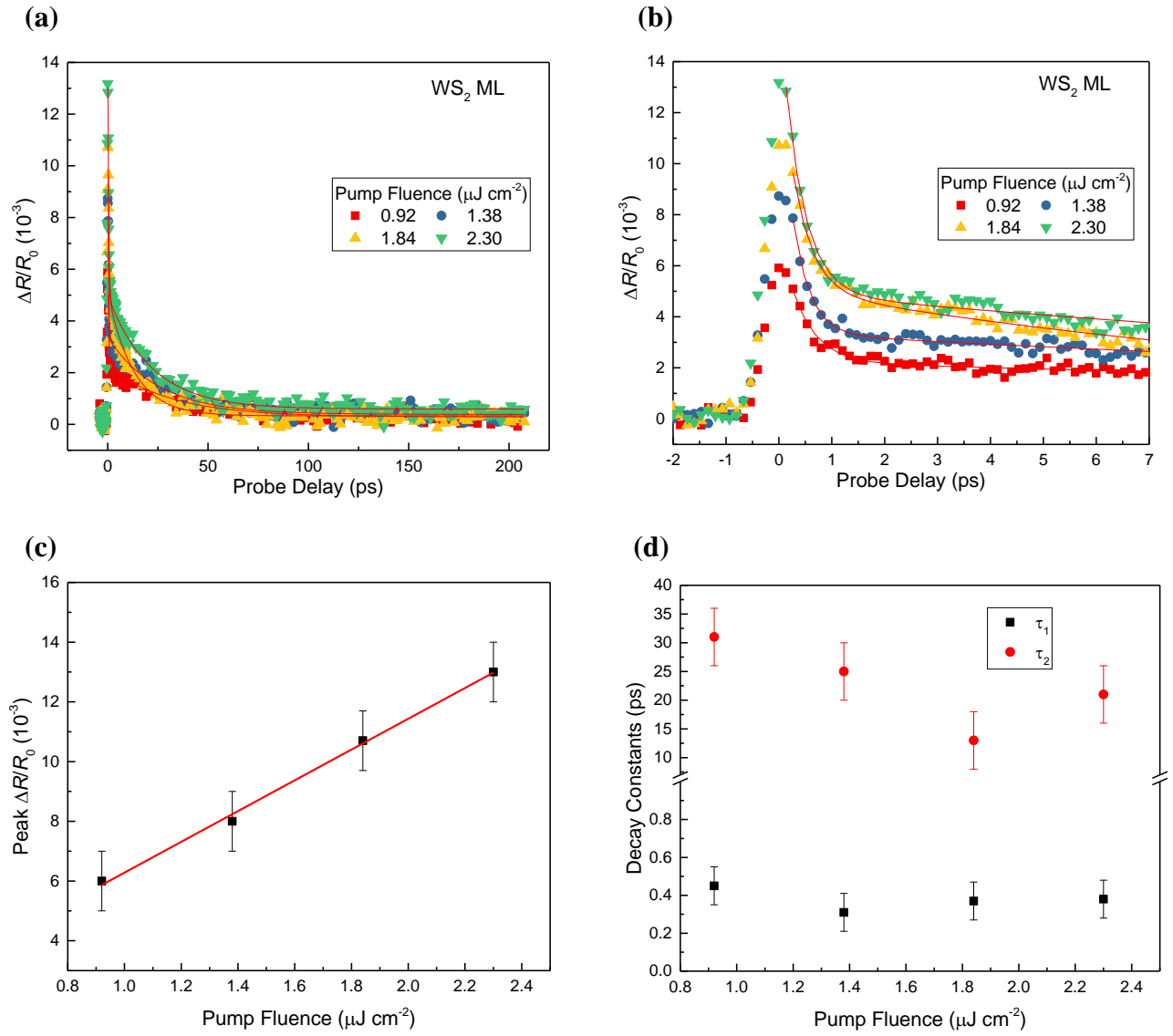


Figure S1. (a) Differential reflection signal of the WS₂ ML sample with different values of pump fluence as indicated in the legend. The red curves are double-exponential fits (see main text). (b) Same as (a) but with a smaller time range near zero probe delay. (c) Dependence of the peak signal on the pump fluence. The red line is a linear fit to the data. (d) The two time constants deduced from fits shown in (a) and (b) as a function of the pump fluence.

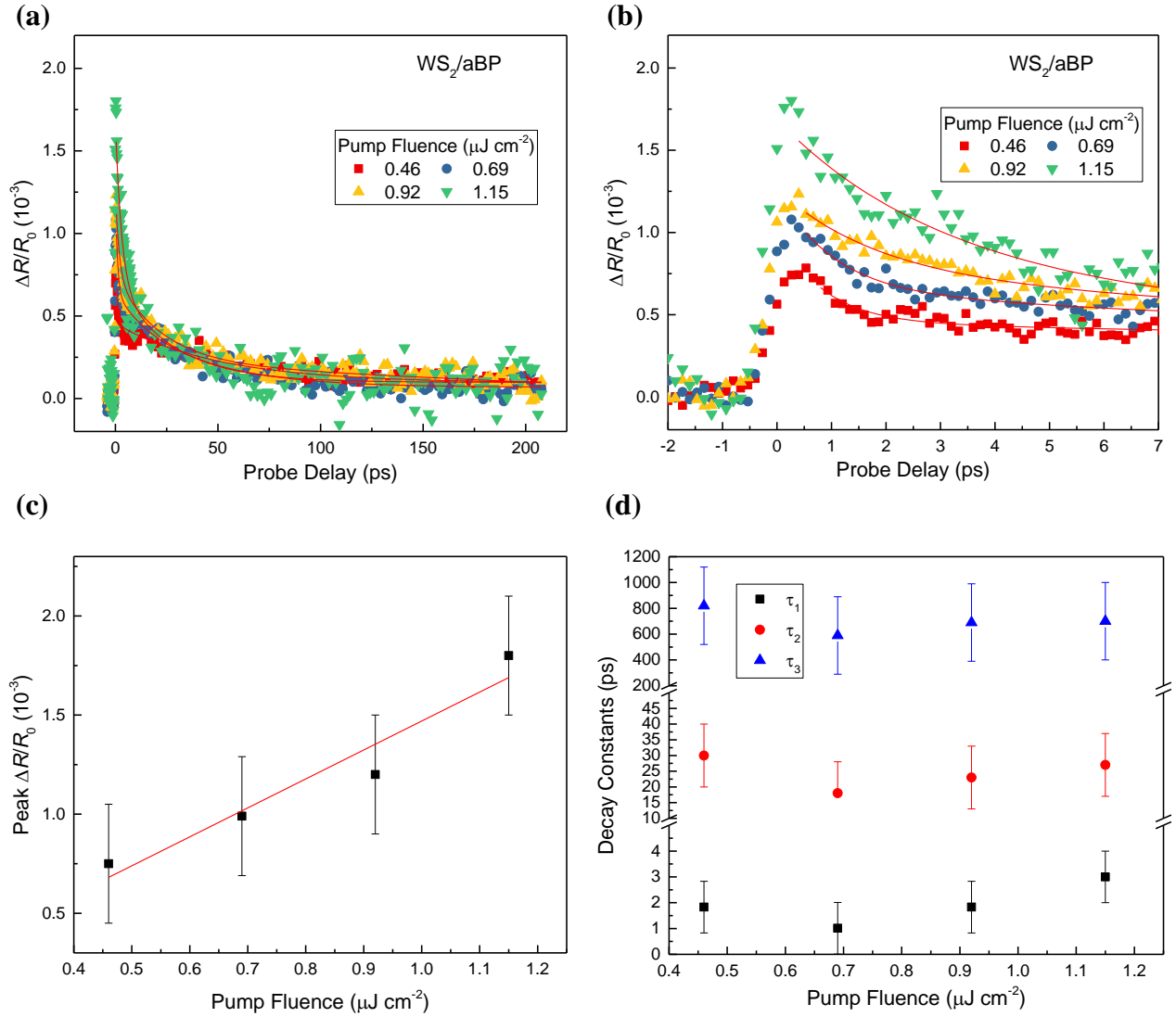


Figure S2. (a) Differential reflection signal of the WS₂/aBP sample with different values of pump fluence as indicated in the legend. The red curves are double-exponential fits (see main text). (b) Same as (a) but with a smaller time range near zero probe delay. (c) Dependence of the peak signal on the pump fluence. The red line is a linear fit to the data. (d) The three time constants deduced from fits shown in (a) and (b) as a function of the pump fluence.