

Supporting information

Metal-supported TiO₂/SiO₂ core-shell nanospheres photocatalyst for efficient sunlight-driven organic pollutant degradation

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BET analysis

Nitrogen adsorption and desorption isotherms of the samples were measured at -196 °C using Quantachrome Autosorb-1 MP analyser. Before the measurement, the samples were outgassed under vacuum for 4 h at 120 C. The specific surface area (BET) was determined from the linear part of the BET equation ($P/P_0 = 0.05 \pm 0.15$). The BET surface area of the samples prepared in this work is summarized in Table S1.

Table S1. BET surface area of the prepared samples in this work.

Sample	BET surface area (m ² /g)
SiO ₂ NS	20
Cu-loaded TiO ₂ /SiO ₂	109
Ni-loaded TiO ₂ /SiO ₂	98
Pt-loaded TiO ₂ /SiO ₂	67
H ₂ S treated Cu-loaded TiO ₂ /SiO ₂	82