Supporting Information

Improving the Photocatalytic Reduction of CO₂ to CO for TiO₂ Hollow Sphere through Hybridization with Cobalt Complex

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Fig. S6  Mapping of the as-prepared sTiO$_2$ sample after reaction.
Table S1  Element contents in bTiO$_2$ sample.

| Elt. | Line | Intensity (c/s) | Conc | Units | Error 2-sig | MDL 3-sig |
|------|------|----------------|------|-------|-------------|-----------|
| C    | Ka   | 28.77          | 4.982| wt.%  | 0.852       | 0.945     |
| N    | Ka   | 0.27           | 0.226| wt.%  | 0.612       | 0.708     |
| O    | Ka   | 42.95          | 28.825| wt.% | 3.138       | 2.402     |
| Ti   | Ka   | 876.42         | 65.205| wt.% | 1.417       | 0.394     |
| Co   | Ka   | 0.38           | 0.062| wt.%  | 0.344       | 0.517     |
|      |      | 100.000        | wt.% |       |             |           |

Table S2  Element contents in sTiO$_2$ sample.

| Elt. | Line | Intensity (c/s) | Conc | Units | Error 2-sig | MDL 3-sig |
|------|------|----------------|------|-------|-------------|-----------|
| C    | Ka   | 371.37         | 54.036| wt.% | 1.838       | 0.742     |
| N    | Ka   | 0.00           | 0.000| wt.%  | 0.000       | 0.000     |
| O    | Ka   | 68.87          | 36.816| wt.% | 3.014       | 1.684     |
| Ti   | Ka   | 86.61          | 8.823| wt.%  | 0.630       | 0.296     |
| Co   | Ka   | 1.53           | 0.325| wt.%  | 0.305       | 0.391     |
|      |      | 100.000        | wt.% |       |             |           |

Table S3  Element contents in sTiO$_2$ sample after reaction.

| Elt. | Line | Intensity (c/s) | Conc | Units | Error 2-sig | MDL 3-sig |
|------|------|----------------|------|-------|-------------|-----------|
| C    | Ka   | 384.93         | 52.819| wt.% | 1.722       | 0.403     |
| N    | Ka   | 0.00           | 0.000| wt.%  | 0.000       | 0.000     |
| O    | Ka   | 56.53          | 31.677| wt.% | 2.801       | 1.328     |
| Ti   | Ka   | 165.14         | 15.261| wt.% | 0.771       | 0.268     |
| Co   | Ka   | 1.25           | 0.243| wt.%  | 0.348       | 0.490     |
|      |      | 100.000        | wt.% |       |             |           |