Supplementary

Oxygen Vacancy Mediated Band-Gap Engineering via B-Doping for Enhancing Z-Scheme A-TiO_2/R-TiO_2 Heterojunction Photocatalytic Performance

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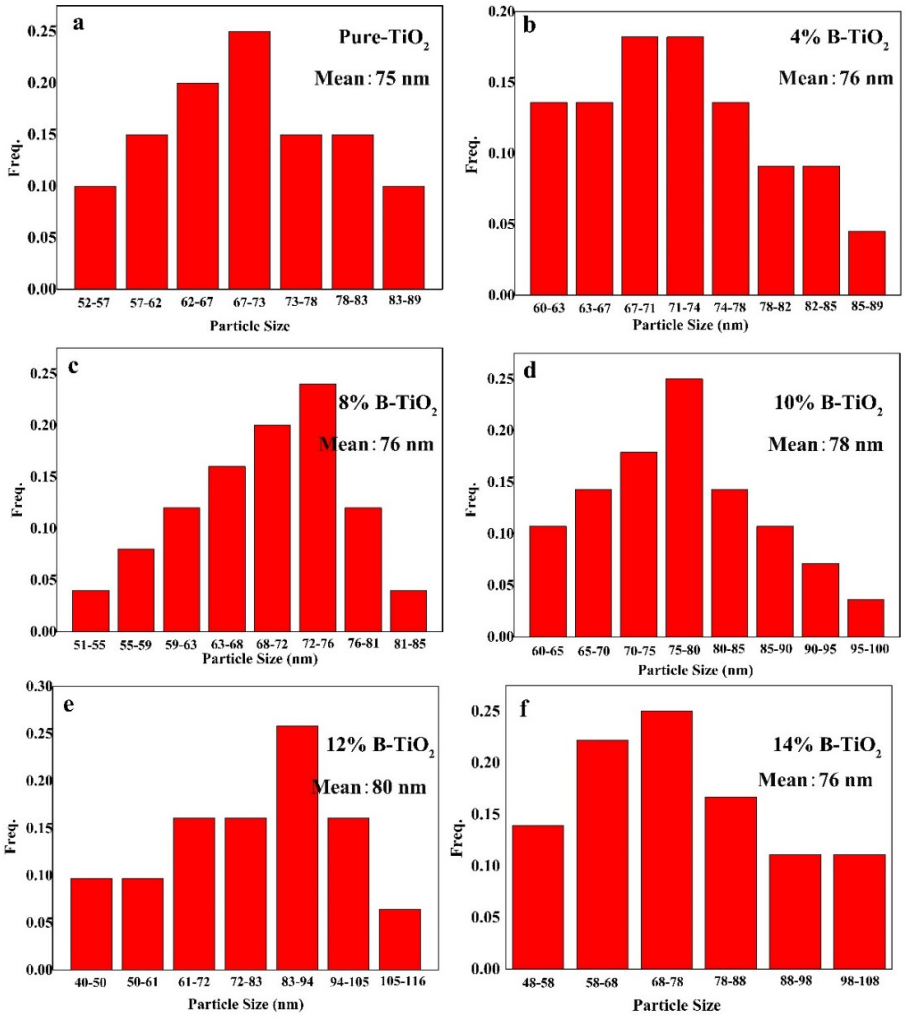

Figure S1. Particle size distributions of all the prepared catalysts (**a**) pure TiO_2, (**b**) 4% B-TiO_2, (**c**) 8% B-TiO_2, (**d**) 10% B-TiO_2, (**e**) 12% B-TiO_2, (**f**) 14% B-TiO_2.

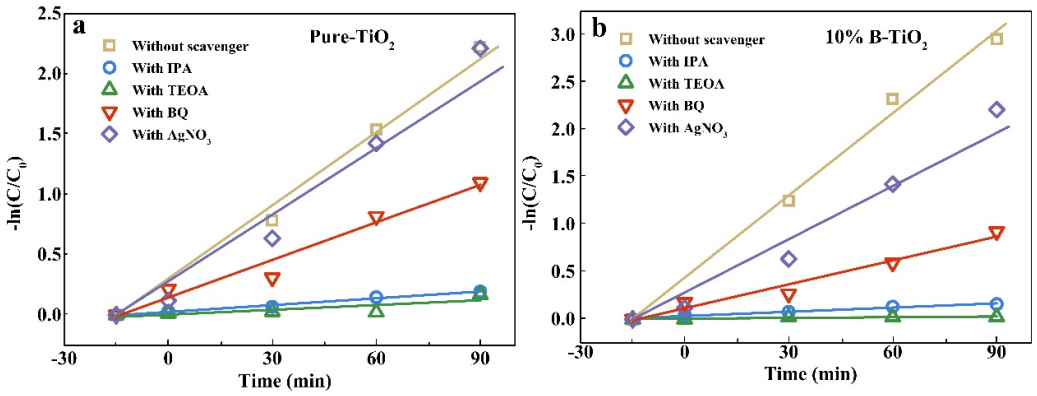

Figure S2. Degradation kinetics of pure TiO_2 (**a**) and 10% B-TiO_2 (**b**) for active species trapping experiments.

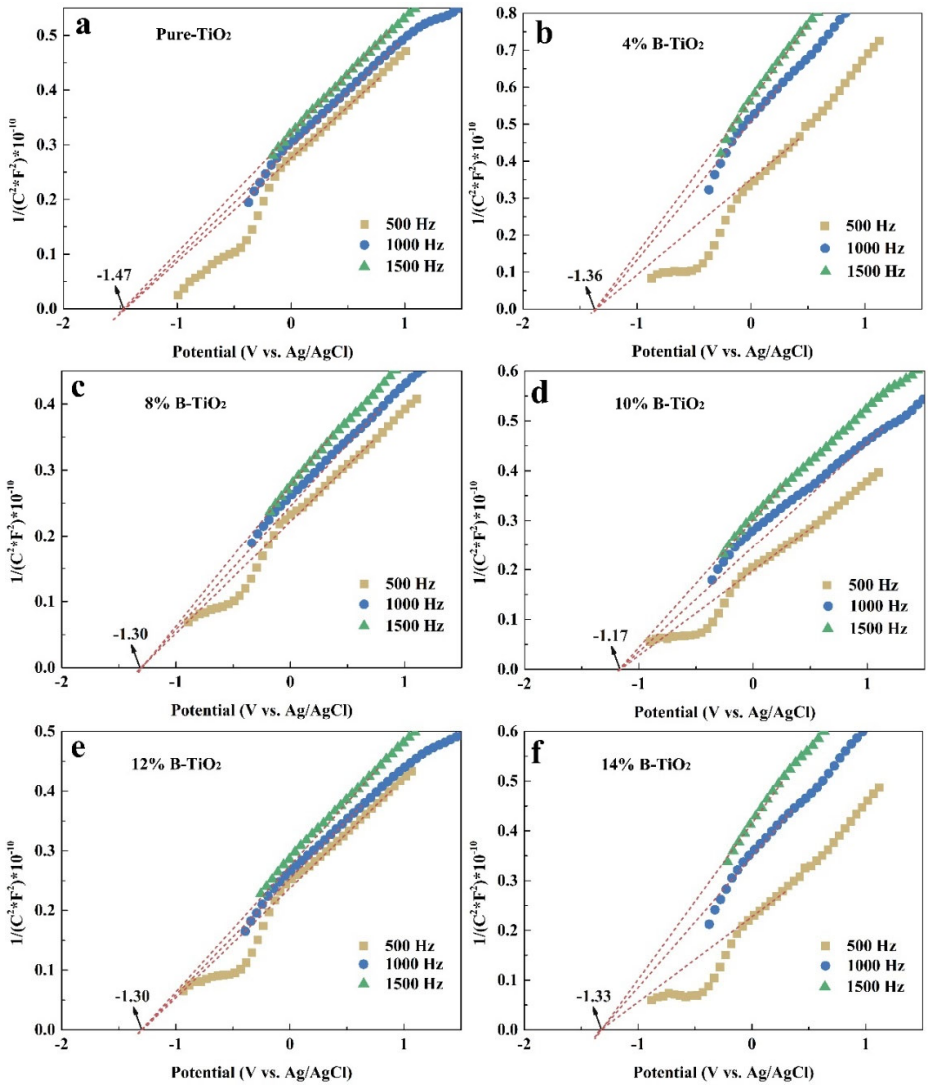

Figure S3. Mott-Schottky curves of all the prepared catalysts (**a**) pure TiO_2, (**b**) 4% B-TiO_2, (**c**) 8% B-TiO_2, (**d**) 10% B-TiO_2, (**e**) 12% B-TiO_2, (f) 14% B-TiO_2.