

Piezotronics boosted plasmonic localization and hot electron injection of coralline-like Ag/BaTiO₃ nanoarrays for photocatalytic application

Yongming Fu,^a Zeqian Ren,^a Lixia Guo,^a Xiu Li,^a Yuqing Li,^{a,b} Wenliang Liu,^{a,b} Peng Li,^a
Jizhou Wu^{*ab} and Jie Ma^{*a,b}

^a School of Physics and Electronic Engineering, Institute of Laser Spectroscopy, State Key Laboratory of Quantum Optics and Quantum Optics Devices, Shanxi University, Taiyuan 030006, China.

^b Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan 030006, China.

* Corresponding Authors.

E-mail: wujz@sxu.edu.cn (J. Wu), mj@sxu.edu.cn (J. Ma)

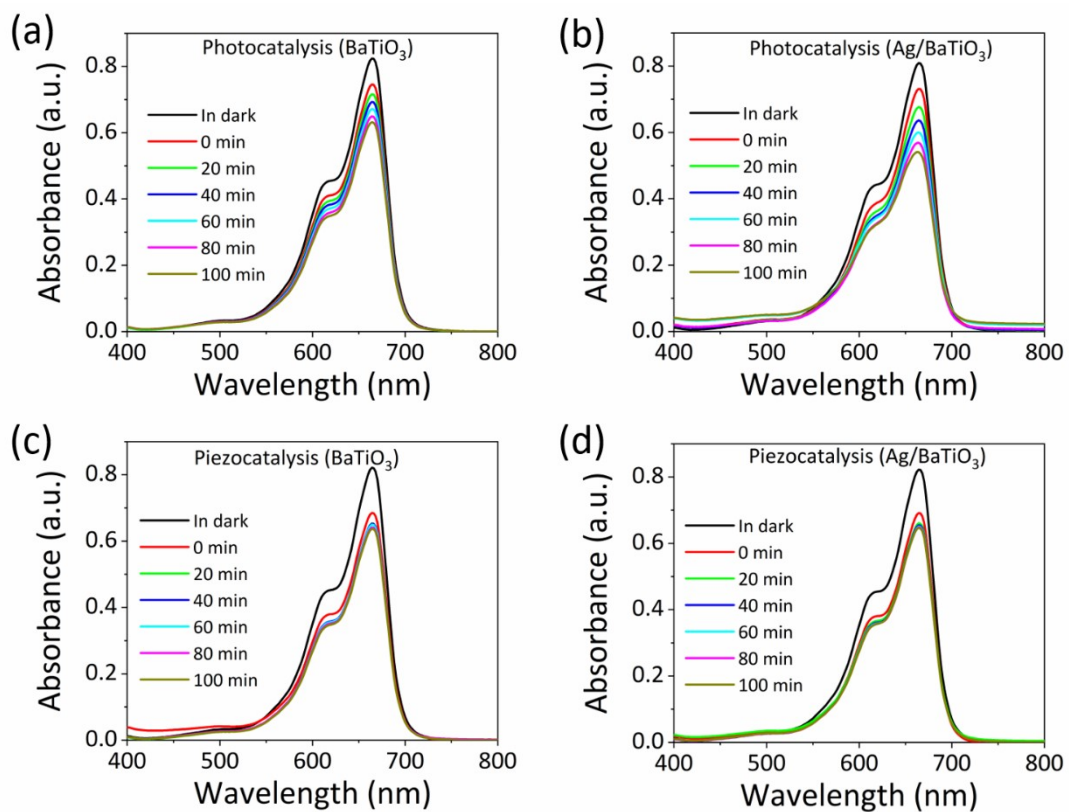


Fig. S1 The photocatalytic and piezocatalytic degradation performances of BaTiO_3 and Ag/BaTiO_3 nanoarrays. (a) Photocatalysis of BaTiO_3 . (b) Photocatalysis of Ag/BaTiO_3 . (c) Piezocatalysis of BaTiO_3 . (d) Piezocatalysis of Ag/BaTiO_3 .