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## **Dual Functional Asymmetric Plasmonic Structures for Solar Water Purification and Pollution Detection**

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## ABSTRACT

In the past decade, various rational designed plasmonic structures have demonstrated extraordinary functionalities from information, photothermal therapy to solar energy conversion. Recently, plasmon enhanced solar steam generation is attracting a lot of attention for its great potential in desalination, sterilization, *etc*. Here for the first time we demonstrate an asymmetric plasmonic structure (APS) formed by self-assembly of close packed silver

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