

# 光触媒による三次元金属微細構造創成に関する研究

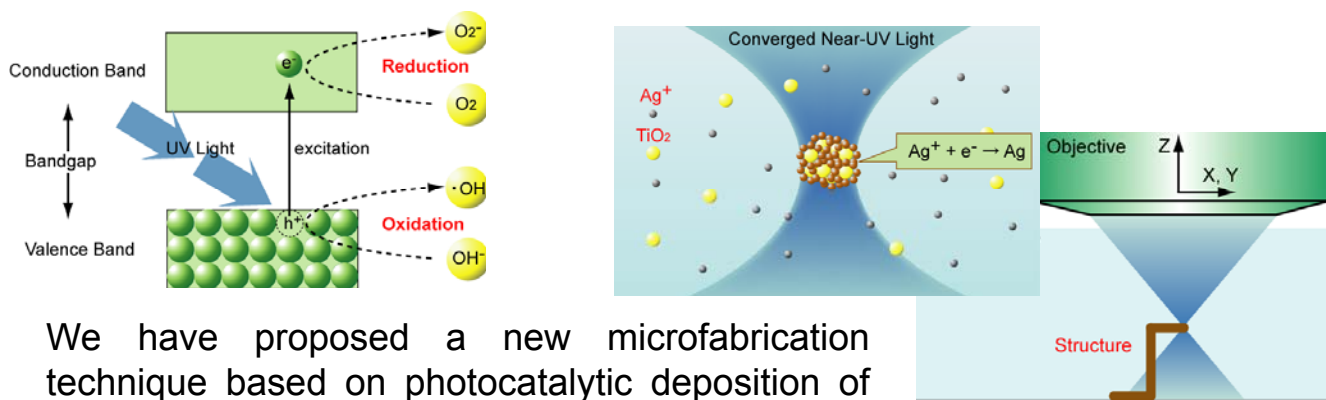
## A Novel Microfabrication Technique for Three-Dimensional Metal Structures by Photocatalysis

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### OBJECTIVES

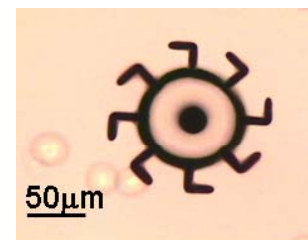
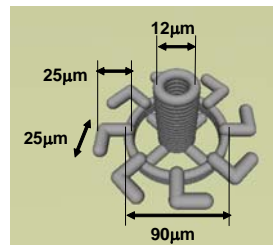
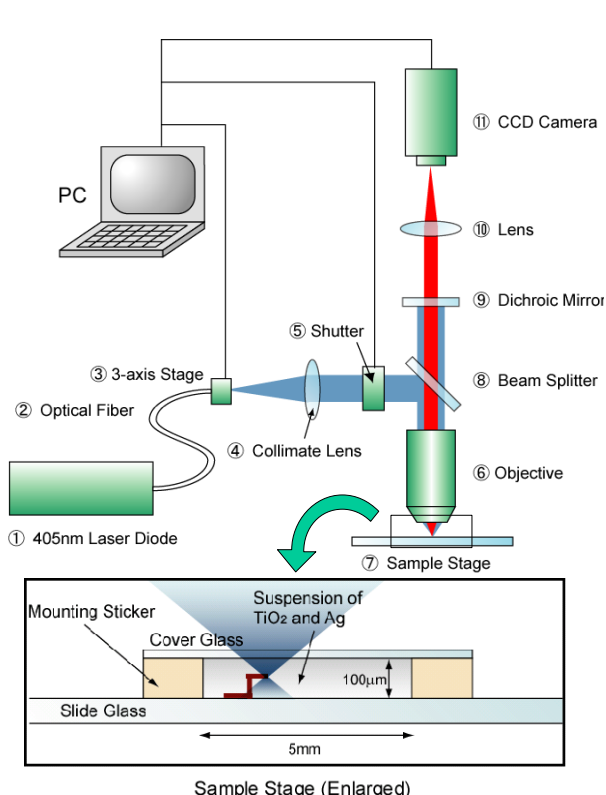
数十マイクロメートルのスケールを持つ、複雑な三次元金属微細構造を創成するための新しい手法として、光触媒を利用した手法を開発する。

### 3D Microfabrication technique by Photocatalysis

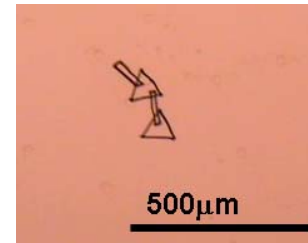
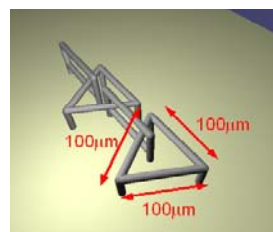


We have proposed a new microfabrication technique based on photocatalytic deposition of metal.

### Development of 3D microfabrication system



3D micro-rotor structures.



3D complex wire-framed structures.

The various fabrication results of 3-D microstructures with the size scale of several 10 µm confirmed the feasibility of the proposed method.