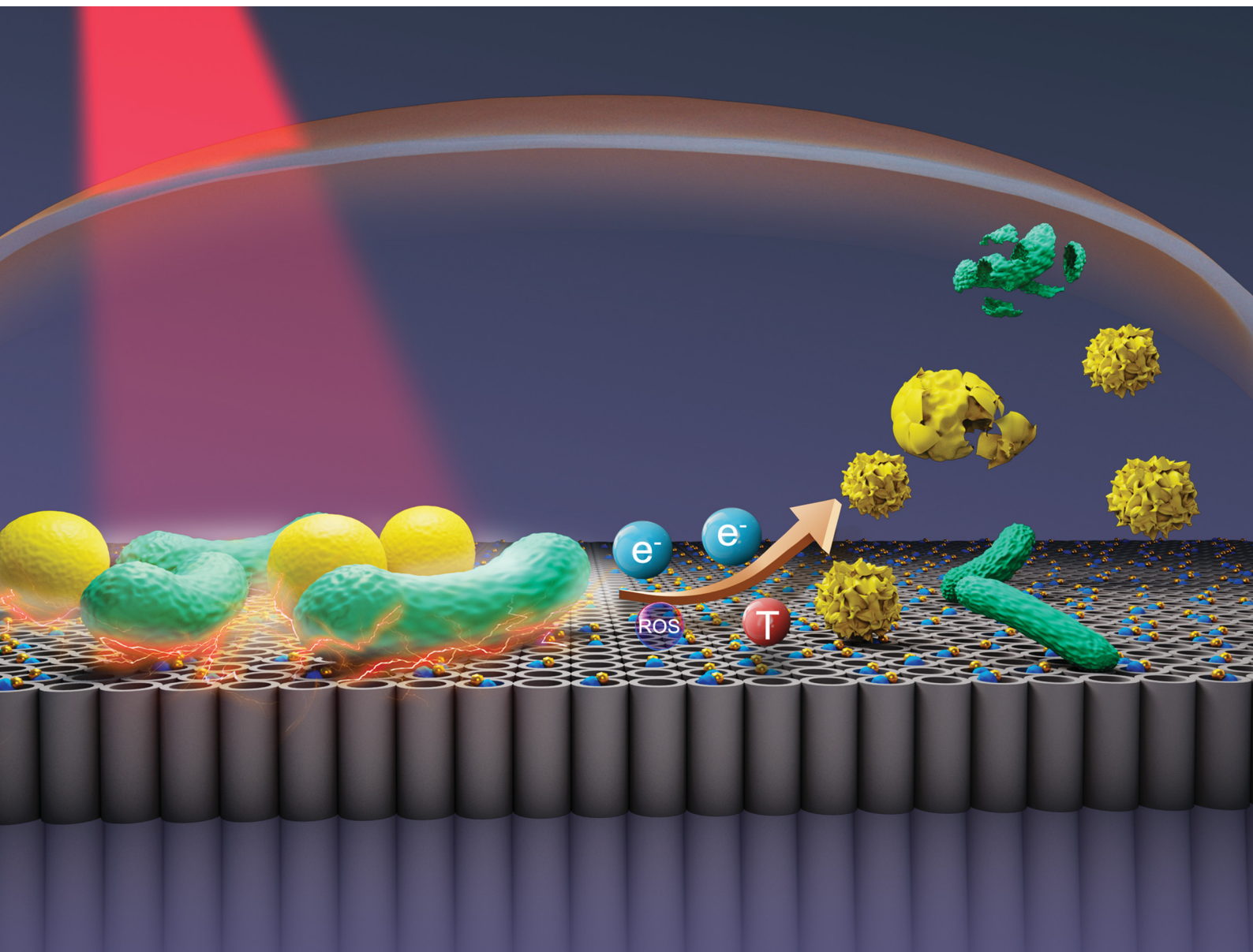


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## PAPER

Lin Xiang, Xuemei Zhou *et al.*  
Regulation of the upconversion effect to promote the  
removal of biofilms on a titanium surface *via* photoelectrons