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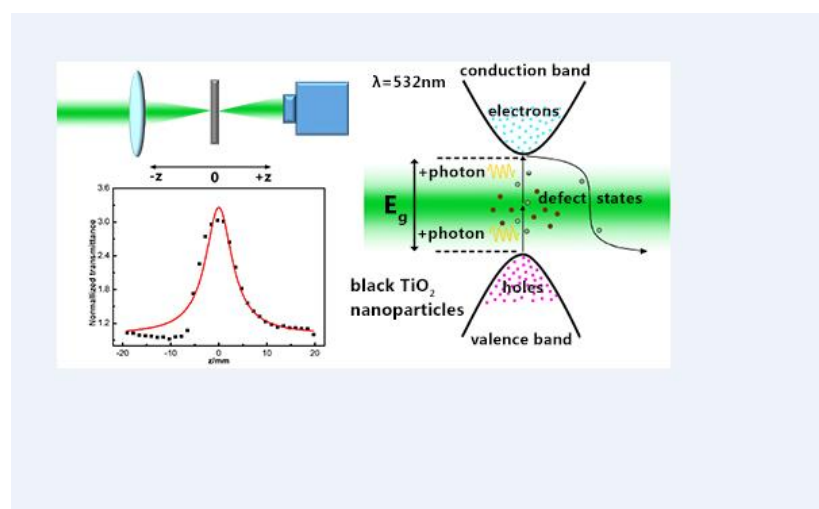
# Strong saturable absorption of black titanium oxide nanoparticle films

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Graphical abstract



## Highlights:

- Black  $\text{TiO}_{2-x}$  nanoparticles with diameter 8-70 nm are synthesized using cathodic plasma electrolysis method.

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