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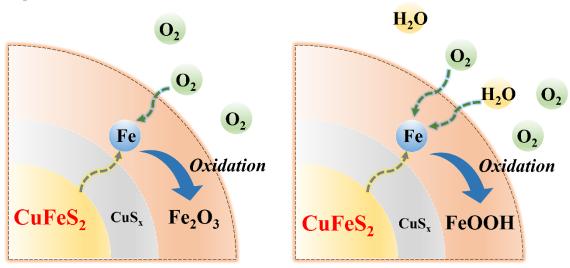
### ACCEPTED MANUSCRIPT

# Oxidation Mechanism of Chalcopyrite Revealed by X-ray Photoelectron Spectroscopy and First Principles Studies

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#### **Graphic abstract**



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