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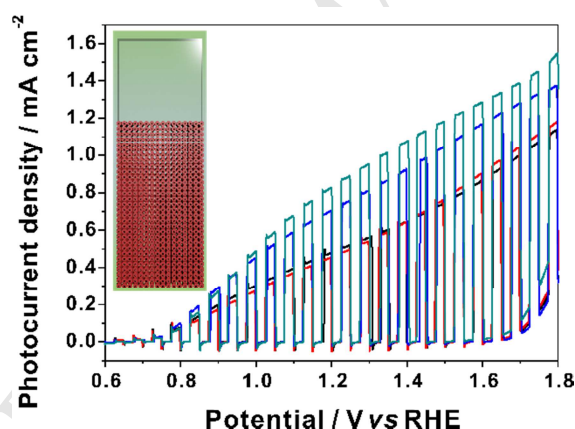
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Graphical abstract



Highlights

- A one-step low temperature phosphidation process is proposed.
- The P doping and CoPi decoration is simultaneously implemented on hematite
- The modified hematites present enhanced photoelectrochemical performance

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