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Advanced electrocatalytic pre-treatment to improve the biodegradability of real wastewater from the electronics industry – a detailed investigation study

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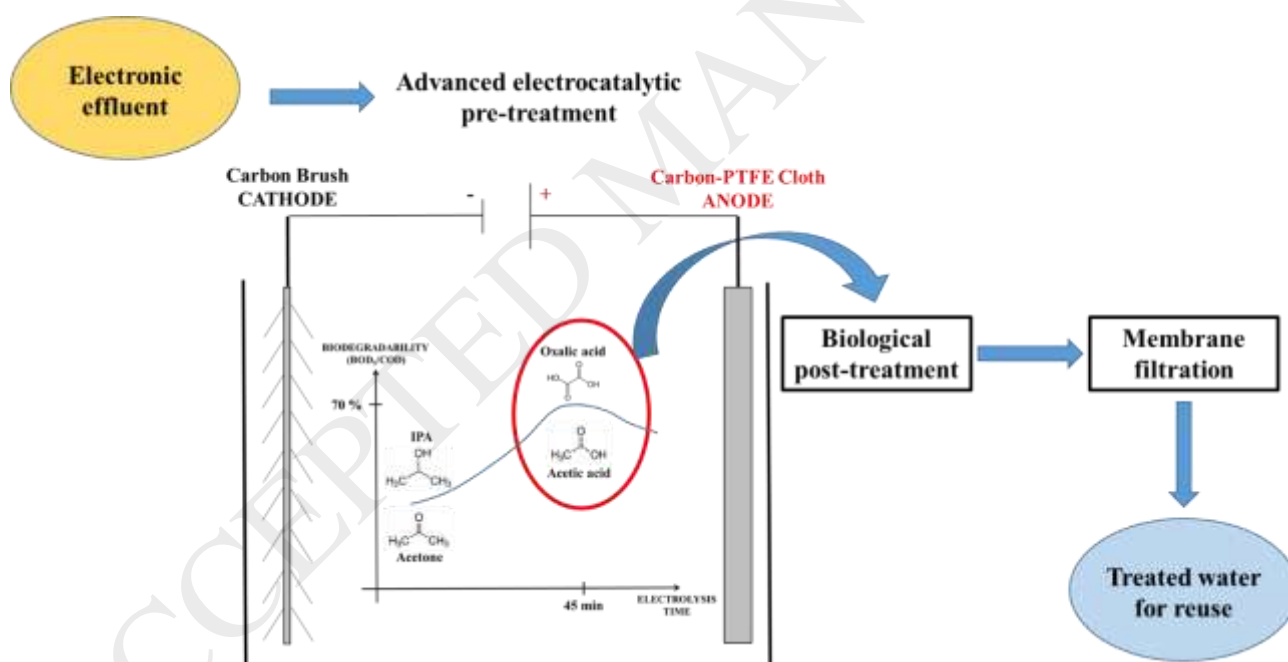
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Graphical abstract



Highlights

- First time investigation of electrochemical treatment of electronics wastewater
- A complete mass balance was obtained after quantifying the main compounds
- An oxidation pathway including IPA, acetone and by-products is proposed
- 23% increase of mineralization with BDD anode compared to carbon-PTFE cloth anode
- Quickest increase of BOD₅/COD ratio with the novel carbon-PTFE cloth anode

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