



Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities <u>www.demeaumed.eu</u>

ELECTROCOAGULATION-ELECTROFLOTATION (ECEF)

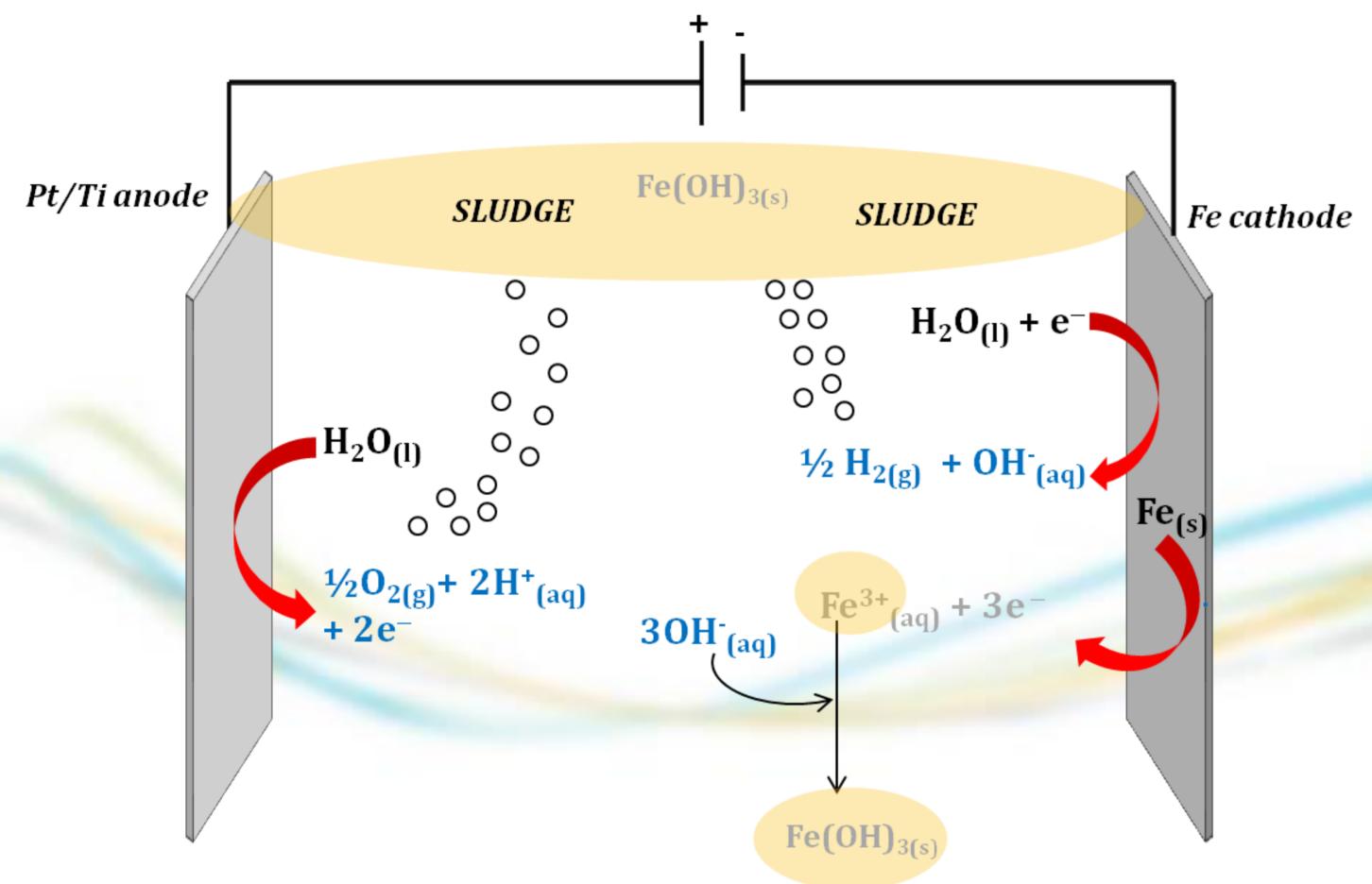


C. Perez, I. Montero-Castro, M. Aliaguilla, D. Galí, J. García - LEITAT





Electrocoagulation-electroflotation (ECEF) is an electrochemical process used as an **alternative** to conventional **coagulation/ flotation processes**.



- Simple one-step process.
- No coagulants addition.
- Easy sludge management and disposal.
- Substantial reduction of oils and fats, suspended solids, organic matter and microbiological charge.

Market uptake

- Estimated total cost: 0,26 €/m³
- Operational cost: 0,15 €/m³
- Maintenance cost: 0,12 €/m³

Applicability

- Primary treatment for black/wastewater streams.
- Capable of treating grinded wastewater, without needing pre-filtration.

Results from demEAUmed demonstration



- COD Reduction: >70%
- NTU Reduction: >90%



"This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement N° 619116. The contents of this material are the sole responsibility of demEAUmed Consortium and can in no way be taken to reflect the views of the European Union."