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Set up, evaluation and optimization of flow capacitive deionization for desalination process

Due to drastic increase in world population and high demand for clean water for industrial and domestic purposes, desalination of saline water has become of the most demanded technologies. Capacitive de-ionization CDI has been proposed as an alternative over other desalination methods in use due to its low energy consumption and high performance. However, improvement of this method is important to overcome its challenges and that drives a move for a flow cell electrode FCDI. This is a method that has proven effective over the conventional CDI and we tend to focus in our project on its optimization for better efficiency.