

## **Water Treatment via Coagulation and Flocculation: Mechanisms and Case Studies**

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The main mechanisms for removing soluble, colloidal and suspended materials from water will be highlighted. They will then be applied to the treatment of waters where recycling could be of benefit, including in the food, feed, paper, mining, textile and de-oiling sectors related to surface interactions and solubility, with an orthogonal dimension being the size of the impurity to be removed. From this, series of examples of the clarification of various organic and inorganic waters from different industries will be highlighted (food, paper, metal, oil, construction).