

Optimization Of Coagulation Flocculation Process With

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The results were in agreement with the experimental data with a maximum removal efficiency of 67.84 %, 98.6 %, and 99.3%, for COD, color, and SS, respectively. Overall, this study verified that the RSM method was viable for optimizing the operational condition of the coagulation-flocculation process.

[Optimization of Coagulation Flocculation Process of ...](#)

The main aim of the present research is optimizing the coagulation-flocculation process and examining the effects of experimental factors with each other, for example, pH, the concentration of two different coagulants (FeCl₃ and alum), rapid mixing rate, and settling time.

[Optimization of the Coagulation Flocculation Process for ...](#)

Optimization of Coagulation–Flocculation Process for Palm Oil Mill Effluent Using Response Surface Methodology | Environmental Science & Technology. The coagulation–flocculation process incorporated with membrane separation technology will become a new approach for palm oil mill effluent (POME) treatment as well as water reclamation and reuse.

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Both turbidity and total suspended solids removal was approximately 98% at the optimal condition. This study has demonstrated that optimized coagulation-flocculation can produce treated water of high quality that can be reused to reduce mains water consumption and hence contribute to the industry's sustainability.

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This paper compares performance of alum, polyaluminum chloride (PAC), and polelectrolyts (PE) as coagulants to remove suspended solids from wastewater of medium density fiberboard (MDF) manufacture. Response surface methodology was used to optimize coagulation-flocculation (CF) process of MDF wastewater. In the treatments with alum, results revealed that full quadratic model was more adequate for chemical oxygen demand removal and total suspended solids removal, whereas linear squares ...

[Optimization of coagulation flocculation process for ...](#)

A coagulation-flocculation process was used to treat a paper-recycling wastewater with aluminum chloride as coagulant and a modified natural polymer, chitosan- g -PDMC (poly (2-methacryloyloxyethyl) trimethyl ammonium chloride), as flocculant. To minimize turbidity and sludge volume index (SVI), the experiments were carried out using jar tests and response surface methodology (RSM) was applied to optimize this process.

[Optimization of coagulation flocculation process for a ...](#)

Optimization of coagulation-flocculation process for treatment of industrial textile wastewater using okra (*A. esculentus*) mucilage as natural coagulant Author links open overlay panel T.K.F.S. Freitas a V.M. Oliveira a M.T.F. de Souza a H.C.L. Geraldino a V.C. Almeida a S.L. Fávaro b J.C. Garcia a

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Optimization of mixing speed and time. Coagulation is performed in two stages: first the coagulant is rapidly mixed and then flocculation is enhanced by slow mixing. Hence, the optimized dosages were further optimized for varied mixing speed and time for each stage of coagulation.

[Analysis and optimization of coagulation and flocculation ...](#)

Efficiency and mechanism of coagulation-flocculation process depend on several factors, the most relevant being initial turbidity, pH, reagents (coagulant, adjuvant) dosage and type, system hydrodynamics in coagulation and flocculation

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stages, temperature, alkalinity [8-10].

~~OPTIMIZATION OF COAGULATION-FLOCCULATION PROCESS WITH ...~~

Biological sludge flocculation is a complex process that can be influenced by several different factors. Amongst these factors, are the flocs' biological components such as microbial communities therein, and their activities and products (EPS). These are central to the promotion and maintenance of optimal sludge flocculation.

~~Understanding and optimization of the flocculation process ...~~

In the coagulation process, the number of carboxylic and hydroxyl functional groups of organic compounds, the pH of the medium and the coagulant dosage are the most important factors controlling...

~~Optimisation of the Coagulation-Flocculation Process of ...~~

Although much information is available about the coagulation process, little research has focused on the combined application of performance optimization of PPAC, RBF network model and the fractal structure of the flocs formed by the coagulation-flocculation process. This study covered the following: 1.

~~Investigations of coagulation-flocculation process by ...~~

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The coagulation and flocculation process requires a great amount of attention to detail along the way. An operator cannot just set a dose and "hope" everything works out. Water quality can change frequently and operators must ensure they are on top of changing conditions. One way an operator can achieve this is through jar testing.

~~1.4: Coagulation and Flocculation – Workforce LibreTexts~~

In this study, coagulation-flocculation process was optimized using PFS, PFPD 1, PFPD 2 and PFPD 3. The response surface methodology was used to investigate the effect changes in the level of coagulant dose and coagulation pH have on turbidity and COD removal.

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This study was conducted to assess the optimization of the coagulation-flocculation process and to investigate the interactive effects of experimental factors in automotive wastewater treatment.

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The optimal coagulation conditions with coagulant dosage of 7.57 mg Al/L, pH of 5.42 and initial algal cell density of 3.83×10^6 cell/mL led to removal of 96.76%, 97.64%, 40.23% and 30.12% in term of cell density, turbidity, DOC and UV 254 absorbance, respectively, which were in good agreement with the validation experimental results.

~~Optimization and modeling of coagulation-flocculation to ...~~

Moringa oleifera is a plant coagulant, which has a potential for use on a large-scale, for treatment of turbid waters in developing countries. In this study, the results of laboratory based investigations into the effects of various forms of *Moringa oleifera* coagulant on its coagulation effectiveness using low, medium and high turbidity water samples are presented.

~~Optimisation of physical parameters of coagulation ...~~

The main objective of this study is to optimize the coagulation-flocculation treatment process by employing OFAT in order to obtain water of high quality suitable for reutilization – to date, there is limited study on this area of research.

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