Journal of Optimization

Hindawi

Special Issue on

Optimization by Response Surface Methodology in Water Treatment

CALL FOR PAPERS

Response Surface Methodology (RSM) is a collection of statistical and mathematical techniques applicable to product or process development, improvement, and optimization. Recently, optimization by RSM has attracted a great deal of interest and attention among researchers owing to its outstanding features such as ability to explore the experimental domain rapidly and accurately until its optimization, ability to locate the optimum conditions with a minimum number of experiments, and ability to provide a graphical interpretation of the functional between the response and experimental variables. Specifically, application of RSM in water treatment is of paramount importance, as it addresses global issues such as unsafe drinking water, water pollution, irregular water supply, and water scarcity. It also promotes water conservation, recycling and reuse, healthy aquatic ecosystem, and public health as well as the sustainable economy with reliable and quality water supplies.

The present special issue aims to publish high-quality research articles and reviews that address recent advances in product or process optimization by RSM, as well as the relevant prospect on opportunities and challenges in all areas of water and wastewater treatment.

Potential topics include but are not limited to the following:

- Optimization of novel materials for water treatment
- Optimization of novel oxidation and separation processes for water treatment
- Optimization of nanotechnology and biotechnology for water treatment
- Optimization of advanced membrane processes (except those for desalination)
- Optimization of advanced oxidative and catalytic processes
- Optimization of integrated and hybrid process technology
- Optimization of emerging environmentally, economically, and socially sustainable technologies for potable and wastewater treatment
- Optimization in water reuse and recycling
- Optimization in wastewater minimization
- Optimization in drinking water treatment
- Optimization in domestic/industrial wastewater treatment and reuse

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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