

[BSJ] Article Review Request

Inbox



Prof. Dr. Fikrat M. Hassan <bsj-info@csw.uobaghdad.edu.iq>

Thu, Jul 16,
2020, 8:26
PM

to me

Dilshad Ganjo:

I believe that you would serve as an excellent reviewer of the manuscript, "Optimization of Pyrene Biodegradation Rate by Response Surface Methodology," which has been submitted to Baghdad Science Journal. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2020-07-23 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The web site is <http://bsj.uobaghdad.edu.iq/index.php/BSJ>

The review itself is due 2020-08-06.

If you do not have your username and password for the journal's web site, you can use this link to reset your password (which will then be emailed to you along with your username). <http://bsj.uobaghdad.edu.iq/index.php/BSJ/login/lostPassword>

Submission

URL: <http://bsj.uobaghdad.edu.iq/index.php/BSJ/reviewer/submission?submissionId=4735>

Thank you for considering this request.

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"Optimization of Pyrene Biodegradation Rate by Response Surface Methodology"

The application of Response Surface Methodology (RSM) in the biodegradation process can result in improved removal, reduced process variability and reduced development time and overall costs. In this study, the non-linear response behavior was analyzed using the star points and center points runs. The response was the biodegradation rate of pyrene; a 4-ring of polycyclic aromatic hydrocarbon by fungi that identified as *Rhizoctonia zeae* SOL3 in batch experiments. Factors like glucose concentration, NaCl concentration, initial pyrene concentration, pH, temperature and agitation were investigated to determine the optimum parameters for the biodegradation rate of

pyrene. The quadratic model predicted that the maximum biodegradation of pyrene was 44.7% in 15 days, when the factors glucose concentration, temperature, NaCl concentration and initial pyrene concentration were 19.6 g/l, 28°C, 9.9 g/l and 24 mg/l respectively. Validation experiment was performed in duplicate to verify the predicted results. Under the optimal medium conditions, the biodegradation was 44% in 15 days, which was in good agreement with the predicted values.

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