Reviewer Journal

Iranian Journal of Chemistry and Chemical Engineering (IJCCE)

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Universities and research institutions in Iran

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Chemistry (miscellaneous)

Iranian Journal of Chemistry and Chemical Engineering

H-INDEX	PUBLICATION TYPE	ISSN
24	Journals	10219986

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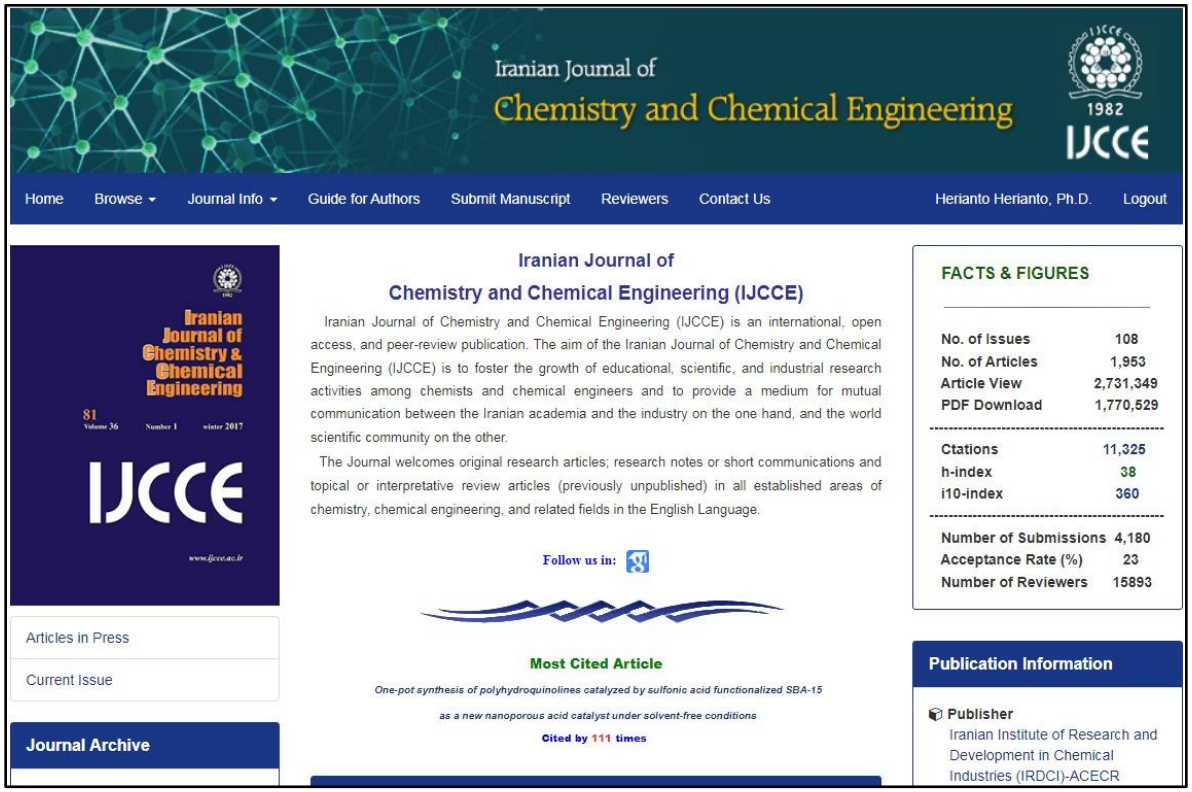

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Herianto Herianto, Ph.D.		Petroleum Engineering Department, Mineral Technology, Universitas Pembangunan Nasional Veteran Yogyakarta, Yogyakarta, Indonesia
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Jose Herráez		Department of Thermodynamics, Faculty of Pharmacy, University of Valencia, Burjassot (Valencia) 46100, Spain.

TITLE : "Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives"

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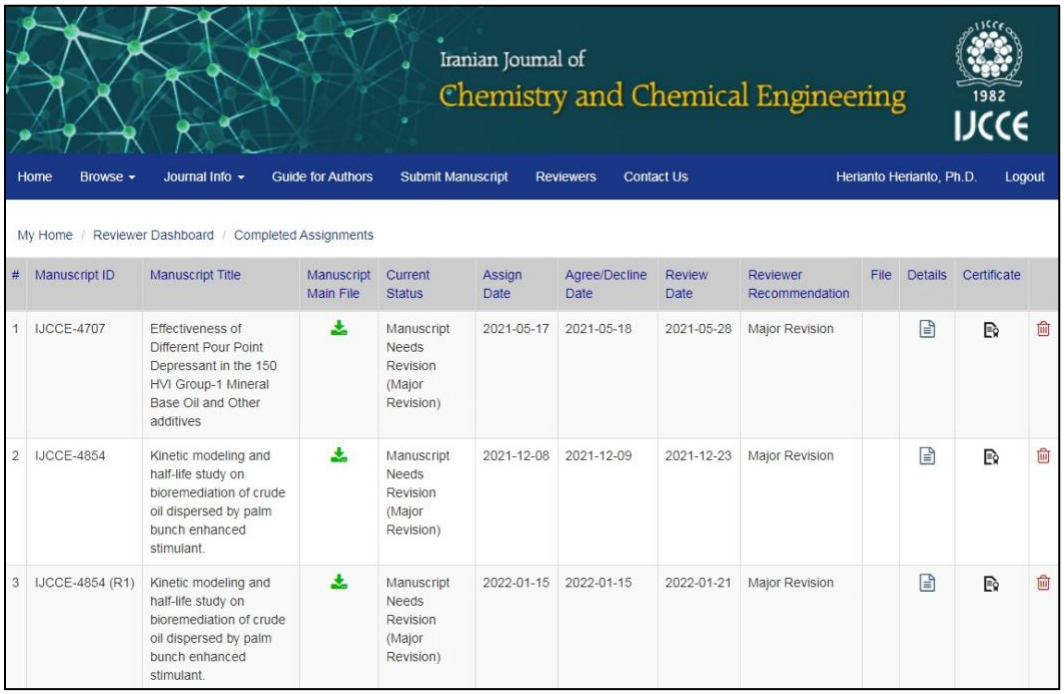

#	Manuscript ID	Manuscript Title	Manuscript Main File	Current Status	Assign Date	Agree/Decline Date	Review Date	Reviewer Recommendation	File	Details	Certificate	
1	IJCCE-4707	Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives		Manuscript Needs Revision (Major Revision)	2021-05-17	2021-05-18	2021-05-28	Major Revision				
2	IJCCE-4854	Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.		Manuscript Needs Revision (Major Revision)	2021-12-08	2021-12-09	2021-12-23	Major Revision				
3	IJCCE-4854 (R1)	Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.		Manuscript Needs Revision (Major Revision)	2022-01-15	2022-01-15	2022-01-21	Major Revision				

Manuscript Title	Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives		
Manuscript ID	IJCCE-4707		
Reviewer Name	Herianto, Ph.D., Herianto	Email Address	herianto_upn_ina@yahoo.com
Position	Associate Professor , Degree: Ph.D.	Phone: 08122741965	Mobile:
Specialty		Specific Field of Study	Drilling, Production, and Reservoir of Petroleum Engineer
Affiliation	Petroleum Engineering Department, Mineral Technology, Universitas Pembangunan Nasional Veteran Yogyakarta, Yogyakarta, Indonesia		
Assign Date	2021-05-17 20:02:34	Review Due Date	2021-06-07
Agree/Decline	Agree	Agree/Decline Date	2021-05-18 02:37:54
Reviewer Recommendation	Major Revision	Review Date	2021-05-28 12:03:33

Editor Comment for Reviewer

Reviewer Comment For Editor/Editor-in-Chief
Manuscript quality research is quite good, it's just that the author does not read a lot of references and does not follow the correct writing references, especially, on abstracts, methodology as well as pictures and tables.

Manuscript ID	IJCCE-4854 (R2)
Manuscript Title	Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.
Manuscript Type	Research Article
Running Title	Kinetics of bioremediation of crude oil polluted water
Main Subjects	**Chemical Engineering** / Water & Wastewater Treatment - Offered Subjects: Bioremediation
Abstract	The work focused on the kinetic modelling and half-life study of the bioremediation of crude oil dispersed by palm bunch enhanced stimulant. In this study, three bioremediation processes, namely; palm bunch enhanced stimulant (PES) stimulation, modified crude oil dispersant (MCD, stimulation and natural attenuated stimulation (NAS), were carried out at various petroleum hydrocarbon concentrations in polluted water media. Bacterial culture, isolations, and identification were done to isolate and identify the bacterial involved in bioremediation. The process kinetics and half-life were investigated. Characterization of PES showed that PES has an appreciable quantity of potassium, phosphate, nitrate, sulphate and calcium required for cell growth and development. Four bacteria isolates were isolated from the culture. They include Micrococcus luteus, Micrococcus roseus, Bacillus pumilus, and Pseudomonas putida. The optimum bio-stimulation efficiency of PES occurred on day 6, with BE values of 93.23 %. A first-order kinetic model satisfactorily described the biodegradation of the crude oil contaminants using PES. The degradation rate constants for the PES stimulated process decreased as the crude oil concentration increased from 100 to 300 mg/L. The result showed that the degradation constants for PES stimulated remediation were 0.11, 0.04 and 0.03 at 100, 200 and 300 mg/L of crude oil, respectively. The MCD stimulated remediation showed degradation rate constants of 0.04, 0.03 and 0.018, at crude oil concentrations of 100, 200, and 300 mg/L, respectively. The trend was the same for NAS. The longest half-life for 100 mg/L of crude oil was achieved after 79.67 days during the NAS stimulation. These results indicate that PES improved the crude oil biodegradation rate. Therefore, the application of PES to remediation of crude oil polluted soil could be an indispensable tools for bioremediation considering the low costs of PES and its high % TPH removal.
Keywords	PES, bioremediation, biostimulant, palm bunch, crude oil.
Submit Date	2021-07-26 12:10:20
Revise Date	2022-02-20 06:10:33

“Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives”

[1]Zain Khalid,[2*]Ghufran Alam [3*]Engineer Aqeel*
[1]Student, Department of Petroleum, University of Karachi*
[2]Assistant Professor, Department of Petroleum, University of Karachi*
[3]Plant Engineer, Well Lubricant*

1. Abstract:

All over the world lubricant is one of the fluid that is used in all type of machinery either it is related to industrial sector or automotive sector. Only one lubricant is not suitable for all the machinery, so lubricant is required to prepare according to the usage of machinery. But in some cases, environment is also the main reason for change in the lubricant formulation. Like if the environment is too cold that the lubricant ceases its flow ability and unable to reached to the parts of machinery where the lubrication is required. Lubricant ceases its flow ability due to the crystallization of wax present in the base oil. one method is to remove the wax completely in order to get rid of this ceasing of flow ability but it requires a great process that would not be economical for that type of lubricant so the other method is to add the additive that would solve this problem. In this research paper, effectiveness of the three different additives were investigated and results shows that PPD coded 7745 performed ever best among other additives.

2. Key Words:

- PPD: Pour Point Depressant
- Polymethacrylate: 7745
- Phenyltristearyloxysilane: 720
- Pentaerythritol tetrastearate: 649

3. Introduction:

Lubricant is widely used whenever reduced friction and wear is needed. The most important function of lubricant is to introduce a shear-able or viscous layer or film of oil between sliding surfaces. As long as the solid to solid contacts are introduced by the solid to lubricant contact, the shear strength between the interfaces is decreased(1).

Mineral oils are the most commonly used lubricants throughout industry. They are petroleum based and are used in applications where temperature requirements are moderate. Typical applications of mineral oils are to gears bearings, engines, turbines etc. All liquids will provide lubrication of a sort, but some do it a great deal better than others. The difference between one lubricating material and another is often the difference between successful operation of a machine and failure. For almost every situation, petroleum products have been found to excel as lubricants(2).

The ability of a lubricant to flow under low-temperature, low-shear conditions is crucial to the operation of engines and equipment expected to run in cold climates. Without the proper selection and treat rate of a pour point depressant, a mineral oil lubricant formulation will exhibit poor low-temperature properties, leading, in the worst case, to lubrication “starvation” and equipment failure. Virtually all paraffinic mineral oil base stocks contain small amounts of waxy materials. As the temperature of the oil is decreased, some

Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.

Matthew N. Abonyi*, Matthew C. Menkiti., Joseph T. Nwabanne.
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Godfrey K. Akpomie
Department of pure and industrial chemistry, University of Nigeria, Nsukka, Nigeria.

Abstract

The work focused on the kinetic modelling and half-life study of the bioremediation of crude oil dispersed by palm bunch enhanced stimulant. In this study, three bioremediation processes, namely; palm bunch enhanced stimulant (PES) stimulation, modified crude oil dispersant (MCD) stimulation and natural attenuated stimulation (NAS), were carried out at various petroleum hydrocarbon concentrations in polluted water media. Bacterial culture, isolations, and identification were done to isolate and identify the bacterial involved in bioremediation. The process kinetics and half-life were investigated. Characterization of PES showed that PES has an appreciable quantity of potassium, phosphate, nitrate, sulphate and calcium required for cell growth and development. Four bacteria isolates were obtained from the culture. They are Micrococcus luteus, Micrococcus roseus, Bacillus pumilus, and Pseudomonas putida. The optimum bio-stimulation efficiency of PES occurred on day 6, with BE values of 93.23 %. A first-order kinetic model satisfactorily described the biodegradation of the crude oil contaminants using PES. The degradation rate constants for the PES stimulated process decreased as the crude oil concentration increased from 100 to 300 mg/L. The result showed that the degradation rate constants for PES stimulated remediation were 0.11, 0.04 and 0.03 at 100, 200 and 300 mg/L of crude oil, respectively. The MCD stimulated remediation showed degradation rate constants of 0.04, 0.03 and 0.018, at crude oil concentrations of 100, 200, and 300 mg/L, respectively. The trend was the same for NAS. The longest half-life for 100 mg/L of crude oil was achieved after 79.67 days during the NAS stimulation. These results indicate that addition of PES improved the crude oil biodegradation rate. Therefore, the application of PES to remediation of crude oil polluted soil could be an indispensable tools for bioremediation considering the low costs of PES and its high % TPH removal.

Keywords: PES, bioremediation, biostimulant, palm bunch, crude oil.

INTRODUCTION

Crude Oil is a key and important energy source that is widely used in various fields, such as industries, transport, and daily human activities [1]. Nevertheless, the prevalent distribution and the overexploitation of crude oil have become a serious problem, causing harmful impacts on the environment and human health due to their toxicity, carcinogenic and mutagenic properties [2].

Environmental pollution by oil spill have occurred in different parts of the world in both aquatic and terrestrial environments. These are caused by drilling, refining, and transportation of crude oil products [3]. Most of these spills are associated with negligence and sabotage, corrosion of pipes, and oil tanker accidents [4]. Since crude oil-derived

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Date: Monday, May 17, 2021, 10:32 PM GMT+7

Manuscript ID: IJCCE-4707

Manuscript Title: **Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives**

Date: 2021-05-02

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I cordially invite you to review the manuscript which has been submitted to the **Iranian Journal of Chemistry and Chemical Engineering (IJCCE)**.

The abstract appears at the end of this letter. Please let me know as soon as possible if you will be able to accept my invitation to review BY CLICKING ON ONE OF THE OPTIONS AT THE END OF THIS LETTER -- AGREED, DECLINED. Please click the appropriate link at the bottom of the page to automatically register your reply with our online manuscript submission and review system.

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MANUSCRIPT DETAILS

TITLE: **Effectiveness of Different Pour Point Depressant in the 150 HVI Group-1 Mineral Base Oil and Other additives**

ABSTRACT:

All over the world lubricant is one of the fluid that is used in all type of machinery either it is related to industrial sector or automotive sector. Only one lubricant is not suitable for all the machinery, so lubricant is required to prepare according to the usage of machinery. But in some cases, environment is also the main reason for change in the lubricant formulation. Like if the environment is too cold that the lubricant ceases its flow ability and unable to reached to the parts of machinery where the lubrication is required. Lubricant ceases its flow ability due to the crystallization of wax present in the base oil. one method is to remove the wax completely in order to get rid of this ceasing of flow ability but it requires a great process that would not be economical for that type of lubricant so the other method is to add the additive that would solve this problem. In this research paper, effectiveness of the three different additives were investigated and results shows that PPD coded 7745 performed ever best among other additives.

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Date: Sunday, December 19, 2021, 07:53 AM GMT+7

Manuscript ID: IJCCE-4854

Manuscript Title: **Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.**

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Date: Saturday, January 15, 2022, 12:50 PM GMT+7

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To: herianto_upn_ina@yahoo.com

Date: Friday, January 21, 2022, 09:53 PM GMT+7

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Manuscript Title: **Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.**

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final and comparative reviewing of {manuId} (#IJCCE-4854 (R2))

From: Iranian Journal of Chemistry and Chemical Engineering (IJCCE) (editorial@e-mail.sinaweb.net)

To: herianto_upn_ina@yahoo.com

Date: Sunday, February 20, 2022, 01:09 PM GMT+7

Dear Prof. Herianto Herianto, Ph.D.

With respect, thanks for your valuable cooperation in the assessment of the manuscript IJCCE-4854 (R2).

This article attached to the final comparative review. The final decision will depend on your judgment.

NOTE:

Your comments and "Manuscript Evaluation Form" will be sent to the author without any correction or polishing. If you want to attach your comments and/or reviewed manuscript, please avoid merging your name as well as your signature. Upload PDF files of them.

Article Details:

Manuscript Title: Kinetic modeling and half-life study on bioremediation of crude oil dispersed by palm bunch enhanced stimulant.

Manuscript Abstract: {manuAbstract}

Direct Link to Reviewer Page: http://www.ijcce.ac.ir/reviewer?_ad=WeIRcZ_CHCUfvprCR0kpBUbmM43nykOCtdNVac1wBjiDmtFSMv7DbJ9AakKDYRc0

Best Regards

Editor-in-Chief of Iranian Journal of Chemistry and Chemical Engineering (IJCCE)