

Review Form 1.6

Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	Ms_JENRR_80666
Title of the Manuscript:	Evaluating the effectiveness of Red Onion Skin Extract Derivatives as oilfield scale inhibitors
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljenrr.com/index.php/JENRR/editorial-policy>)

Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>The work deals with the synthesis and investigation of some bio compound obtained from red onion skin able to play a role of inhibitors of some pollutant chemicals like CaSO₄ and CaCO₃ usually present in the oilfield. The samples were investigated by FTIR and SEM techniques in function of temperature, time and protocol of fabrication. The investigations shows a good inhibition rate for calcium sulphate scale and barium sulphate scales, good stability at higher temperatures and performs a continuous CaSO₄ and CaCO₃ inhibition along the time.</p> <p>The new product also show a relatively close performance rate when compared to an existing commercial inhibitor that should offers a high potential for use in the oil industry. What are these commercial inhibitor?</p> <p>How were measured m₂, m₁, mo. the mass concentration of Ca²⁺ and Ba²⁺. How was estimated the solubility?</p> <p>It is suitable to discuss comparatively the FTIR spectra of ROSAC and (b) ROS, referring to theirs structural differences. Also the assignment of vibration peaks, in the text, must be done separately for each sample. So it is much easier to observe the differences between the spectra.</p> <p>How can be explained the dependence of the inhibition efficiency in function of concentration?</p> <p><i>For barium sulfate (Figure 6), I think it is figure 7!</i></p> <p>The numbering of figures is ambiguously, For barium sulfate (Figure 6), <i>Figure 7: Effects of Temperature on the inhibition performance of ROS on barium sulphate</i></p> <p><i>Effect of inhibition time on the performance of scale inhibitor is shown in Figure 7.</i></p> <p>How can be explained the time dependence of the inhibition?</p> <p>In SEM images must be indicated which are the inhibitors and which are CaSO₄, CaCO₃ BaSO₄</p> <p>How can be correlated the SEM images with the structures of ROSAC and ROS?</p> <p>The temperature and time stability (as was claimed in conclusions), can be appreciated by recording the FTIR spectra at different temperatures and different time intervals! I suggest these measurements be done~</p>	
Minor REVISION comments		
Optional/General comments		

Review Form 1.6

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	<i>Mihai Todica</i>
Department, University & Country	<i>Babes-Bolyai University, Romania</i>