**Intensification of iron-boron complex association in silicon solar cells …**

by Olikh et al.

This paper presents the application of the ultrasound (US) waves; both longitudinal and transverse for reducing the light induced degradation in Si solar cells by dissociating the iron (Fe) – boron (B) pair. The authors have discovered that the longitudinal US waves are more effective for this dissociation than the transverse waves. They have measured the short circuit current *Isc* as a function of the illumination time with and without the application of US waves and found that it gets enhanced when US waves are applied. The results are new and may be considered for publication, however, the presentation of the contents is very poor and hence it is unacceptable in its present form. I guess, the main problem is with the English language used; many unconventional or unusual technical words, which make it difficult to understand what some descriptions mean. Some of these. I have listed below, and authors may consider revising their manuscript with these in mind.

1. Page 3, line 28, “Fig. 1 Scheme of the sample…” should be changed to, “Fig. 1 Schematic structure of the sample…”. And also in lines 33 -34, this should be changed as, “The schematic structure of SC …”.
2. Fig. 2, presents the measured *Isc* as a function of time of illumination *t*. Thus the y-axis of Fig. 2 should be labelled as Isc ( and the x-axis as . Also it is not explained what the red and green curves represent? The should explain Red with US and Green without US? Thus, the figure captions of Fig. 2 in lines 26-27 on page 4, should be changed to, “Measured *Isc* plotted as a function of the illumination time *t*; red curve- with US and green curve without US. ….”
3. The second paragraph, on page 4, lines 36-40, does not make any sense to me. It needs to be rewritten. It should emphasize how *Isc* in Eq. (1) is obtained to represent the measure *Isc* in Fig. 2.
4. In Eq. (1) , please define all the symbols used. For example, what is *Pph* ? Also if Eq. (1) represents the measured *Isc*, why does it not depend on the time *t*? This needs to be carefully explained.
5. Page 5, line 53, “… where is the characteristic time of the complex association.” This does not make sense to me. Do you mean, ““… where is the characteristic time of the formation of Fe-B complex ?” This needs to be fixed.
6. On page 6, lines 33-37, “ … the values of …1380 for T = 330 K … 1.26 0.02) 104  for T = 300 K …”. Something is wrong here? How can a 30 degree difference in temperature can give such a big value of from Eq. (10).
7. Page, 6 lines 53-57, the first sentence of Results and Discussion does not make any sense. Please rewrite it.
8. Page 6, lines 60-61, “ The figure also shows values…” but figure 3 does not show any ? Please check it and fix it carefully.

There are many more but it is very time consuming to list them all in this report. Hope these can be fixed.