

Review of: "Experimental Behavior of Solar Still Using Mixed Oxides Mn-Fe/Silicon Resin Composite as Selective Solar Absorber"

Khaleel I. Hassoon¹

¹ University of Technology - Iraq

Potential competing interests: No potential competing interests to declare.

Reviewer's Comments

I have read the manuscript '*Experimental Behavior of Solar Still Using Mixed Oxides Mn-Fe/Silicon Resin Composite as Selective Solar Absorber*'. The authors used a black pigment of mixed Mn and Fe oxides in silicone resin for the construction of a two-slope passive solar still. I think the work is interesting. However, the manuscript needs extensive revision for language, grammar, and typesetting. I have shown some examples below. I also have the following recommendations:

1. The authors should discuss the novelty of their work and give more details about what is new in their current work compared with previous works.
2. On page 3 (line 2), "usually very pure; This technique ..." should become "usually very pure. This technique ..." with a full stop (.) instead of (;).
3. On page 3, paragraph 3 (line 9), please add a reference to the use of steel for the manufacture of the solar still.
4. On page 4 (line 2), "One most important ..." should become "One of the most ..."
5. On page 5, paragraph 4 (line 4), "sodium hydroxide NH_4OH " should become "ammonium hydroxide NH_4OH ".
6. On page 7, Miller indices in Fig. (1) should be written between two brackets (200), (211), ...etc. Also, Scherrer's analysis should be used to calculate the crystallite size and defects density.
7. In the conclusions part, T is 82.59%, and this gives Absorptance $A = \log 100/T = \log 100/82.59 = 0.0827$, while in line 2 of the conclusions, the absorptance is 91.82%. Please check this value.
8. Some references such as [17] and [18] have a different style with "Duffie" before "J. A.," while the first reference, Y. Zhang, has "Y." before "Zhang". Moreover, in reference [13], there is no space after each full stop "C.D.," while there is a space in the other references. Please use the same style for all your references. Please use Mendeley to manage the style of your references. You can also use, for example, APA or Chicago style from Google Scholar Citation.

