

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

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Potential competing interests: No potential competing interests to declare.

Reviewer's comments:

Reviewer # Dikra Bouras: Reviewer Comments for Manuscript

Re: Manuscript Number: **Qeios ID: Z57AR1**

Title: "**Experimental Behavior of Solar Still Using Mixed Oxides MnFe/Silicon Resin Composite as Selective Solar Absorber**," described by Carlos Eladio Juárez Salinas, Reyna Itzamara Ventura Reyes, Víctor Rentería Tapia, Carlos Leopoldo Fernández Rendón, Enrique Barrera, presents interesting study results and may be accepted for publication in Qeios after major revision.

Remarks

- 1- What is the novelty, and it should be given in the abstract.
- 2-What is the motivation, and it should be given in the abstract.
- 3-What are the important findings, and they should be given in the abstract.
- 4- The experimental section should be revised, and the experimental study should be given more detail.

Absorbance and spectral transmittance were evaluated, and X-ray diffraction patterns were obtained to determine their crystalline structure and study their morphology by measuring surface plates, in addition to evaluating the spectral transmittance of different samples of flat glass.

*What is the reason for choosing 0.1% of Fe₂O₃?

*It is necessary to compare with the pure Mn sample without addition and with the addition of different percentages of Fe to know the difference and the percentage of stimulation between them.

5- The XRD data curves had to be added with different addition ratios (2.3%, 4.9%, 9.1%, 13%).

6- Here is a major contradiction in the abstract. The ratio was mentioned as 0.1 % and its results were presented in spectral transmittance and XRD, while it was not mentioned in the other analyses (spectral solar absorptance, emittance,).

7- All AFM analyses should be set for all samples in different ratios.

8-Comparing the present results with the literature can be reported in a table or some lines.

After the revision, the manuscript can be accepted for publication.