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

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Potential competing interests: No potential competing interests to declare.

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

In general, after going through all paragraphs of the submitted manuscript, it was found that the whole manuscript must be well revised. Thereby, some major revisions needed should be carried out to refine the manuscript, and the manuscript needs to rearrange figures of the optical properties.

1. At first, the research title must be "Experimental Behavior for Mixed Oxides Mn-Fe/Silicon, a Solar Resin Composite Still Implemented as a Selective Solar Absorber," instead of the title in the manuscript.
2. The abstract of the manuscript should be revised to include the main results of the manuscript, like XRD and morphological properties.
3. In the introduction, some sentences need to be revised.
4. In the introduction, the author needs new references in recent years talking about the coating of Mn-Fe/Silicon resin.
5. The equation must be revised, and the author can write it in the best way.
6. At the end of the introduction, the author should briefly add the methods of work and the characterization of the work that is used in the coating of Mn-Fe/Silicon resin.
7. Figure (1), XRD needs more explanation for the analysis of the crystallization patterns.
8. Figures (2-4) need more analysis of the optical properties.
9. In the conclusion, the author should revise and explain the best results of the manuscript to contain the main results of the manuscript.
10. The author should review the references of the manuscript, and they should be in the style of the journal.
11. The author can review the language of the manuscript once again because there are many grammatical mistakes.
12. The author can benefit from these references and divide the manuscript as these references below and add them to the manuscript to help him for more details to arrange its manuscript:

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- R. N. Abed, E. Yousif, A. R. N. Abed, A. A. Rashad, A. Hadawey, A. H. Jawad, Optical properties of PVC composite modified during light exposure to give high absorption enhancement, J. Non-Crys. Solids 570 (2021) 120946 1-11
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- Zeena Mowafaq Al-Azzawi, Mohammed Al-Baidhani, Abdul Rahman N. Abed, Rasheed N. Abed, Influence of Nano Silicon Carbide (SiC) Embedded in Poly(Vinyl Alcohol) (PVA) Lattice on the Optical Properties, Silicon, https://doi.org/10.1007/s12633-021-01325-8
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https://doi.org/10.1016/j.jnoncrysol.2023.122257

- R. N. Abed, A. R. N. Abed and A. N. Abed, Electrical conductivity of carbon ash surface immersed with nanoparticles (Co_3O_4-Cr_2O_3) for spectroscopic selective surfaces. Poly. Bull. 80 (2023) 11207–11224, DOI:10.1007/s00289-022-04601-8
- R N Abed, M H Al-Mashhadani, E Yousif, H Hashim, R M Yusop, M Bufaroosha, Organosilane-doped PVC lattice thin film for optoelectronic applications. J Opt, 2023, https://doi.org/10.1007/s12596-023-01351-2
- R N Abed, M A Sattar, S S Hameed, D S Ahmed, M Al-Baidhani, M Kadhom, Al H Jawad, K Zainulabdeen, M H Al-Mashhadani, A A Rashad, E Yousif, Optical and morphological properties of poly(vinyl chloride)-nano-chitosan composites doped with TiO_2 and Cr_2O_3 nanoparticles and their potential for solar energy applications. *Chem. Papers.* 77, (2023) 757–769, https://doi.org/10.1007/s11696-022-02512-6
- A Ahmed, R N Abed, M Kadhom, H Hashim, E Akram, A Jawad, E Yousif, Modification of poly (vinyl chloride) thin films with organic compound and nanoparticles for solar energy applications. *J Polym Res* 30, 274 (2023). https://doi.org/10.1007/s10965-023-03654-1
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