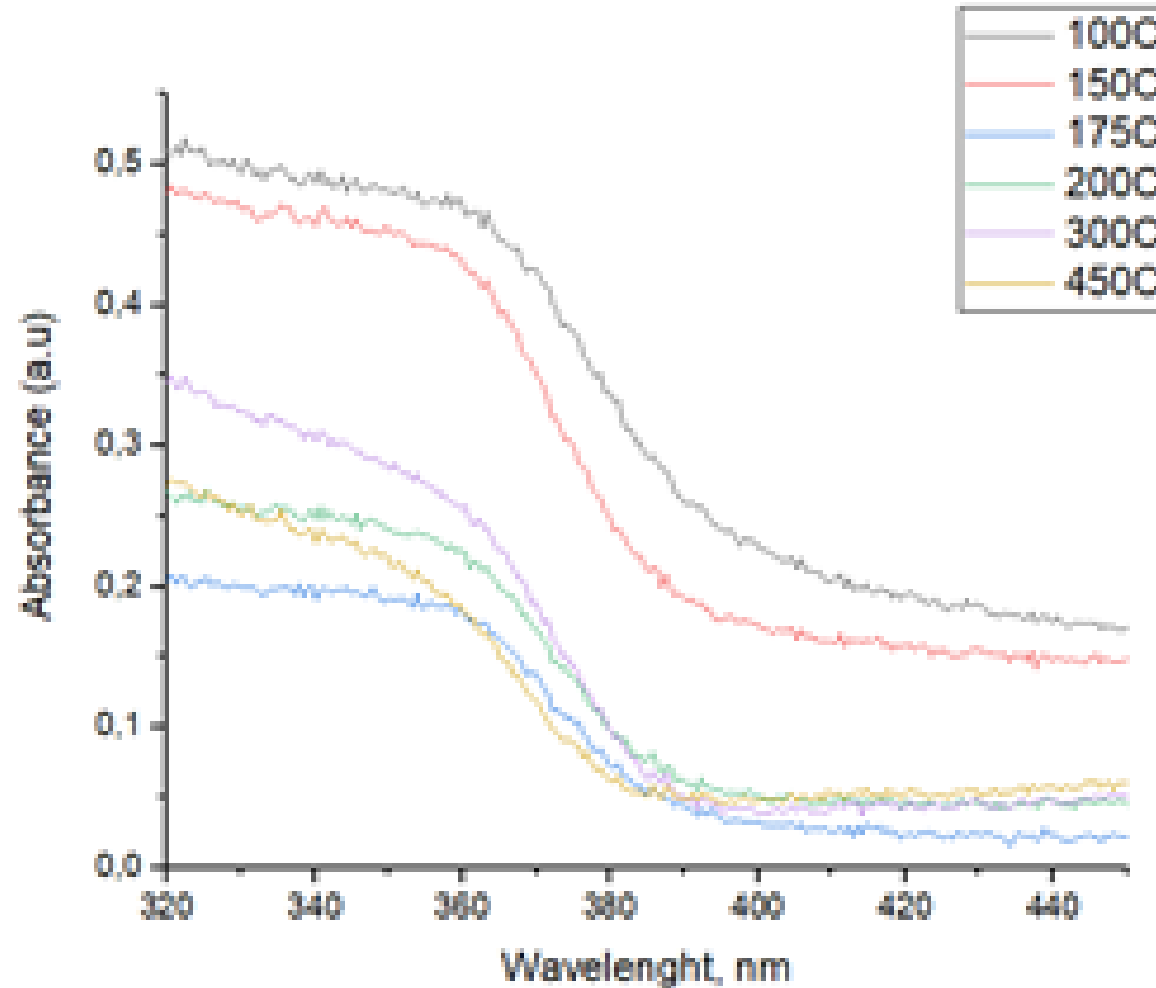


# **Influence of pre-annealing on the optical characteristics of ZnO thin films**

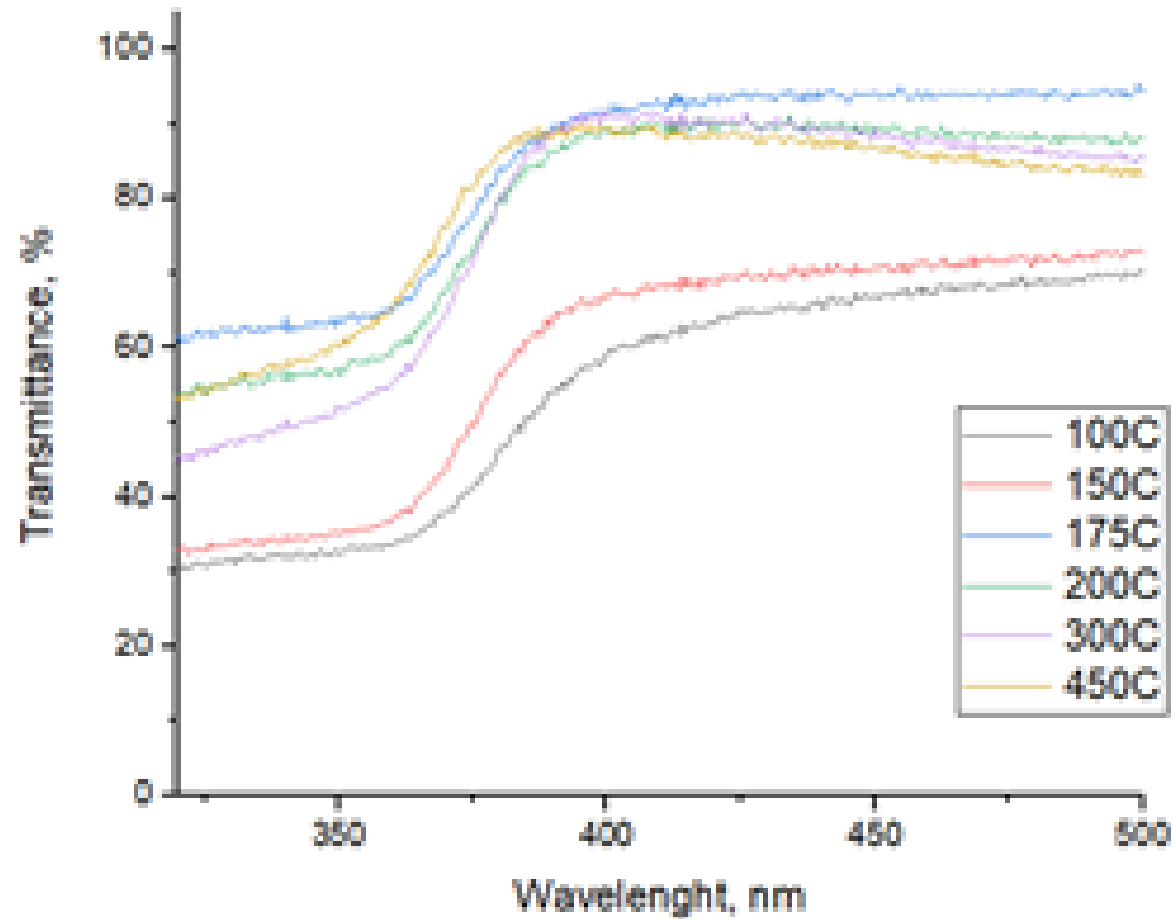
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- The optical characteristics of thin films are closely related to the crystallite size and orientation, which are affected by thermal treatment of the film. It is known that heat treatment has a significant effect on various properties of the film, in particular on photoluminescence.
- In this work, we investigated the effect of preliminary annealing on the optical properties of ZnO films obtained by the sol-gel method.
- It was found that the temperature of preliminary annealing affects the surface morphology. Accordingly, the change in morphology affected the optical properties of thin films, such as light transmission and absorption, which are key factors in the use of the material in the manufacture of solar cells.

# Absorption spectra of ZnO films



# Transmission spectra of ZnO films



# References

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