

**CERTIFICATE**

*Of*

**PARTICIPATION**

**Abdelhafid Mahroug**

has participated in 1st International Conference on Innovative Academic Studies on 10-13 September in 2022  
at Konya/Turkey.

**PAPER TITLE**

*Elaboration and characterization of Zinc Oxide thin films by sol-gel  
spin coating technique*

**PRESENTATION TYPE**

*Oral*



**ICIAS 2022 CONFERENCE CHAIRMAN**  
**Asst. Prof. Dr. Umut ÖZKAYA**

A blue ink signature of the conference chairman, Umut Özkaya, written in a cursive style.