



People's Democratic Republic of Algeria  
Ministry of Higher Education and Scientific Research  
Kasdi Merbah Ouargla University  
Department of Chemistry



1<sup>st</sup> international conference on chemical matters and environment preservation  
IC-CMEP'22 March 09-10, 2022, Ouargla, Algeria (virtuel conferenes)

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BMD Laboratory



## Certificate of participation

The organizing committee of the 1<sup>st</sup> international Conference on Chemical matters and Environment Preservation  
IC-CMEP'22 March 09-10, 2022, Ouargla – Algeria, certifies that:

**Deghfel Bahri**

Has successfully participated as a **POSTER** communication entitled:

**STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF CU-DOPED ZNO THIN FILMS PREPARED BY SOL-GEL  
SPIN COATING METHOD**

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