



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



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

N° :CP-5



Certificate of participation

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

Guermat Noubeil

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

Evolution of structural and optoelectronic properties in magnesium doped and magnesium-manganese-fluorine co-doped zinc oxide thin films

Co-author(s): Noubeil Guermat, Warda Darenfad and Kamel Mirouh

Dean of the Faculty
Pr. Djamel BECHKI



Coordinator of
IC-CMEP'22

Dr. Belfar Med lakhdar



Chairman of
IC-CMEP'22

Dr : Hedef Derradj

