



University of Ghardaia



ESAIPME'2024

1st international conference on
"Energy Systems, Artificial
Intelligence, Plasma, Materials
and Environment"

October 16 and 17, 2024,
Ghardaia, Algeria

<https://esaipme2024.sciencesconf.org>



The Research Laboratory:

Materials, Energy Systems Technology
and Environment

<http://mestel.univ-ghardaia.dz>

CERTIFICATE OF ATTENDANCE

This Certificate is delivered to:

RAMDANI Halima

For his/her participation to 1st international conference on: "Energy Systems, Artificial Intelligence, Plasma, Materials and Environment" from 16-17 October 2024 at university of Ghardaia,
Presenting an oral paper entitled:

Investigation of the Dielectric and Thermodynamic Properties of Transition-metal Ions Doped in Zinc Sodium Phosphate Glass.

Co-authors:

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Chairman of ESAIPME'2024

Pr. AR. BELLAOUAR



October 17, 2024