

2nd Algeria - German
International Conference
on
New Technologies and their
Applications



CERTIFICATE OF PARTICIPATION

This is to certify that **M. Hadjab**

Attended the Second Algerian German International on new Technologies and their Applications „AGICNT 2019“ held at the university Ferhat Abbas- Sétif 1, Algeria, on September 22-23, 2019 and presented in poster session a communication entitled :

«**First-principles calculations and numerical modeling on the structural and optoelectronic properties of chalcopyrite materials for solar cell application**»

Authors: M. Hadjab, J.-M.Wagner, F.Bouzid, M.Ibrir, A. HadjLarbi, S.Boudour, H.Bennacer, M. I.Ziane

On behalf of the steering committee

Prof. Mohamed Bouafia
UFA Sétif1, Algeria

Prof. Stefan Krischok
TU- Ilmenau, Germany