

**CERTIFICATE**

*Of*

**PARTICIPATION**

**Maroua Chahmi**

has participated in 3rd International Conference on Applied Engineering and Natural Sciences on 20-23 July  
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**PAPER TITLE**

*Optimization study of perovskite-based solar cells using  
R-soft package*

**PRESENTATION  
TYPE**

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



A blue ink signature of the conference chairman, Asst. Prof. Dr. Umut Özkaya.