



# CERTIFICATE OF PARTICIPATION

**TMREES INTERNATIONAL CONFERENCE**  
TECHNOLOGIES AND MATERIALS FOR RENEWABLE ENERGY,  
ENVIRONMENT AND SUSTAINABILITY

THIS DIPLOMA IS PROUDLY PRESENTED TO

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Abbas

Study of the Photovoltaic Properties and Efficiency of Ruthenium Black Dye-Sensitive Solar  
Cells Based on Titanium Dioxide Electrode

**Speaker: Rola Abbas**

*Affiliation: University of Technology*

*In recognition of valuable participation and presentation at the  
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