



# CERTIFICATE OF PARTICIPATION

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

— THIS DIPLOMA IS PROUDLY PRESENTED TO —

Sabah Ali Hussein and Thair Abdulkareem Khalil Al-Aish

Numerical Simulation of Attosecond X-ray Pulse Generation via Echo-Enabled Harmonic  
Generation (EEHG) in FELs

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*In recognition of valuable participation and presentation at the  
TMREES26 International Conference on Technologies and Materials for  
Renewable Energy, Environment and Sustainability.*



n° 0426.48

BEIRUT, LEBANON  
16 – 18 APRIL 2026

  
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