



CERTIFICATE OF PARTICIPATION

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

THIS DIPLOMA IS PROUDLY PRESENTED TO

Sorour M. Morad and Kareem A. Jasim

Application of Scherrer, Williamson–Hall, Size–Strain Plot, and Halder–Wagner Methods to Calculate Crystal Size and Microstrain of $\text{Hg}_{1-x}\text{Al}_x\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ Compound

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