**Research Publication**

1. Mahmoud, Adel K., Zaid S. Hammoudi, and Samah Rasheed. "Evaluation of the residual stresses in 95wt% Al2O3-5wt% SiC wear protection coating using X-Ray diffraction technique." *IOP Conference Series: Materials Science and Engineering*. Vol. 311. No. 1. IOP Publishing, 2018.

2. Mahmoud, Adel K., Zaid S. Hammoudi, and S. R. Hassan. "EVALUATION OF THE RESIDUAL STRESSES IN ADVANCED COMPOSITE CERAMIC COATINGS USING X-RAY DIFFRACTION AND FINITE ELEMENT TECHNIQUES." *Materials Science. Non-Equilibrium Phase Transformations.* 3.5 (2017): 184-187.

3. Mahmoud, Adel K., Salim Farman, and Samah R. Hassan. "Evaluation of the residual stresses in advanced composite ceramic coatings using x-ray diffraction techniques." *Machines. Technologies. Materials.* 12.11 (2018): 466-468.