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Graduated :

- 2017 PhD from Cardiff university UK, Mechanical engineering in fluid dynamics.
- 2003 MSc from University of technology , Baghdad , mechanical engineering in fluid dynamics.
- 1999 BSc from University of technology , Baghdad , mechanical engineering in Air conditioning and refrigeration .

Affiliation:

- 2005-2017 Al-furat Al-awsat technical university , Najaf technical engineering college, Automobile department.
- 2017-2018 Al-furat Al-awsat technical university , Najaf technical engineering college, Laser and electroptics department.
- 2018- Al-furat Al-awsat technical university , Najaf technical engineering college , Aerontical technical engineering department.

Published work:

- 2016 “A Study of Fluid Flow Characteristics Using Micro Structured Surfaces Produced by WEDM”. 4M/IWMF2016 The Global Conference on Micro Manufacture : Incorporating the 11th International Conference on Multi-Material Micro Manufacture (4M) and the 10th International Workshop on Microfactories (IWMF).
- 2017 “Investigation of Boundary Layer Flashback Enhancement in Swirl Burner Using Woven Wire Mesh”. 8th European Combustion Meeting.
- 2017 “Experimental Study to Enhance Resistance for Boundary Layer Flashback in Swirl Burners Using Microsurfaces”. ASME Turbo Expo 2017: Turbomachinery Technical Conference and Exposition.
- 2017 “ASME Turbo Expo 2017: Turbomachinery Technical Conference and Exposition” Phd thesis.

- 2017 “Enhancement of the Performance Characteristics for Air-Conditioning System by Using Direct Evaporative Cooling in Hot Climates”. Energy Procedia 142:3998-4003.
- 2017 “ Enhancement flame flashback resistance against CIVB and BLF in swirl burners”. Energy Procedia 142:1071-1076.
- 2017 “Experimental study to enhance swirl burner against boundary layer flashback”. Energy Procedia 142:1534-1538.
- 2018 “INVESTIGATION THE EFFECT OF CALCINATIONS DEGREE AND ROTARY KILN GASES BYPASS OPINING IN THE PREHEATING SYSTEM FOR DRY CEMENT INDUSTRIES”.
- 2018 “Effects Of Different Nozzle Configurations On Swirl Flow Topology In Tangential Swirl Burners”. Applied Energy ICAE2018 At: Hong Kong, China.
- 2018 “Enhancing flame flashback resistance against Combustion Induced Vortex Breakdown and Boundary Layer Flashback in swirl burners” . Applied Energy 230:946-959.
- 2018 “Improving the performance of heat pipe-evacuated tube solar collector experimentally by using Al₂O₃ and CuO/acetone nanofluids”. Solar Energy 173:780-788.
- 2018 “Effect of Enhanced Evaporative Cooling on the Performance of Air-Conditioning in Severe Hot Weather”. Journal of Engineering and Applied Sciences 13(16):6814-6822.