Kirkuk Technical Engineering College | **Northern Technical University** | **Department of Power Mechanical Techniques Engineering**

Curriculum Vitae

Personal Information			
Name	Jawdat Ali Yagoob	**Employee ID**	
Degree	PhD	**Academic title**	Professor
Workplace	Northern Technical University	**Faculty**	Technical Engineering College, Kirkuk
Department	Power Mechanical Techniques Engineering	**Position**	-
General specialization	Metallurgy Engineering	**Specific Specialization**	Metallurgy Engineering
Country	Iraq	**Province**	Kirkuk
Academic email	jaw209662@ntu.edu.iq	**phone number**	+964-770-125-2461

Academic Qualifications

Degree	University Name	Date of granting the Degree	Specialization	Granting Country
PhD	Technology University	2019	Metallurgy Engineering	Iraq
Master's	Technology University	2002	Metallurgy Engineering	Iraq
Bachelor's	Technology University	1988	Metallurgy Engineering	Iraq

Research Activity

Published Papers	**38**	
Conferences and seminars	**Yes**	
Memberships in Scientific Associations and Journals	**Yes**	
Member of the Iraqi Engineers Union		
Board Member of Al-Thurwah Foundation for Sustainable Development		
H-Index in Scopus	**2**	

Academic Profiles on Research Platforms		
Clarivate, Web of Science	Web of Science	
Scopus	Scopus	
Resurgence Gate	Research Gate	
Orchid	ORCID ID	
Google Scholar	Google Scholar	

Awards and Innovations	
Granting Body	**Title of Awards or Innovation**
C.O.S.Q.C. IQ	**1- A patent entitled: Manufacture of metallic -composite materials based on (aluminum - silicon) supported with graphite particles mechanically alloyed with copper.**
C.O.S.Q.C. IQ	**2- Improvement of Corrosion Resistance and Bioactivity of Biomedical CoCrMo Alloy by Addition of Yttria Stabilized Zirconia in Ringer's Solution.**
C.O.S.Q.C. IQ	**3- Heat Transfer Enhancement for Cooling of Computer Using Nanofluid (Yttrium Oxide Nanoparticles-Distilled Water).**

Scientific and Teaching Experiences	
Undergraduate Studies	Yes
Postgraduate Studies	Yes

Supervision of Master's or Doctoral Dissertation:		
Thesis or Dissertation Title	**Program**	**Year**
Fabrication and Characterization of Magnesium Based (AZ31) and (Mg-Zn) Composites by Powder Metallurgy for	**PhD**	**2023**

Biomedical Applications		
Characterization and effect of nano and micro TiC reinforcement particles on the properties of Copper matrix composites	**PhD**	**2021**
Effect of receiver tube surface and reflective mirrors on improving the performance of parabolic trough collectors	**Master**	**Till Now**
Numerical validation of hybrid nanofluid (TiO2-ZnO//Water) mixed convection flow in a backward facing step channel	**Master**	**2022**
Experimentally heat transfer enhancement for cooling CPU of computer using nanofluids	**Master**	**2022**
A comparative study of a hybrid voltaic system using a phase changing material and a nanofluid	**Master**	**2022**
Improvement the thermal performance of the heat exchanger with nanoparticles coated on the surface	**Master**	**2021**
The effect of welding pass number on the mechanical and metallurgical properties of similar welds of pure aluminum (AA 1050-H14) produced by friction stir welding	**Master**	**2021**
Performance Evaluation of a shell and tube heat exchanger by using different types of metals and flow solutions	**Master**	**2017**
of Mechanical and physical properties Behavior of hybrid copper-graphite composite reinforced with Y_2O_3 and Sn particles prepared via powder metallurgy technique	**Master**	**2016**

Research Interests

Powder metallurgy, corrosion engineering, nanomaterials, composite materials, tribology, casting, biomaterials

Published Papers

Title	Year
Investigation the effect of TiC on some properties of ZA-27 alloy prepared by powder metallurgy method	2024
Experimental and optimization study of powder metallurgy process parameters of magnesium base AZ31 alloy using taguchi method	2024
Evaluation of Parameters for Magnesium Fabrication by Powder Metallurgy Route	2023
Numerical investigation of hybrid nanofluid flow through backward facing step	2023
Assessment of thermal performance of PV/T collectors under different enhancement methods: A review study	2023
Influence of Al2O3 nanoparticles on the corrosion behavior of biomedical cocrmo alloy in Ringer's solution	2023
Heat Transfer Enhancement for Cooling CPU of Computer Using Nanofluid Yttrium Oxide Nanoparticles-Distilled Water/ [Patent][	2023
Analysis of generated wear debris of brass during dry sliding	2023
Improvement of Corrosion Resistance and Bioactivity of Biomedical CoCrMo Alloy by Addition of Yttria [Patent[	2022
Improvement the wear resistance of pure copper fabricated by powder metallurgy by nano and micro size TiC additions	2022
Heat Transfer Enhancement using Nanofluids for Cooling Computer Device: A Review	2021
Prediction of the solidification mechanism of ZA alloys using Ansys fluent	2021
Study the effect of welding pass number on the mechanical and metallurgical properties of Aluminum type Al 1050 H14 produced by friction stir welding	2021
The effect of micro and nano size TiC additions on some properties of copper fabricated by powder metallurgy	2021
Characterization of the Effect of Some Parameters on the Properties of Copper Fabricated by Powder-Metallurgy	2021
Influence of mould thickness on microstructure, hardness and wear of al-cu cast alloys	2021
Wear Behavior and Mechanism of CoCrMo Alloy Fabricated by Powder Metallurgy Route	2019
Corrosion Behavior and Mechanisms of Co-Cr-Mo Alloy Fabricated by Powder Metallurgy Route in Ringer's Solution	2019
Characterization of cobalt based CoCrMo alloy fabricated by powder metallurgy route	2018
Effect of tube material on the fouling resistance in the heat exchanger	2018
Mechanical and Physical Properties of Hybrid Cu-Graphite Composites Prepared via Powder Metallurgy Technique	2018
Effect of Some Factors on the Thermal Performance of Shell and Tube Heat Exchanger	2017
Study the Increasing of the Cantilever Plate Stiffness by Using Stiffeners	2015
Experimental Investigation of Convection Heat Transfer for Laminar Flow in an Inclined Annulus	2014
دراسة التضرر تحت السطحي للبراص عند ظروف الانزلاق الجاف	2013
دراسة تاثير معدل التبريد على بعض خواص و بلى البراص	2012
THE EFFECT OF SOME HEAT TREATMENTS ON THE PROPERTIES OF MEDIUM CARBON STEEL	2010
دراسة تاثير استخدام المواد العازلة في المباني على توفير الطاقة	2010

2010	دراسة البلى و الاحتكاك للبراص سهل القطع تحت ظروف الانزلاق الجاف
2010	The Effect of Using Insulation on the Energy Saving in Building
2008	CORROSION OF COPPER WELDMENTS IN SALTY AND ACIDIC SOLUSIONS
2008	دراسة تاكل ملحومات من التحاس في اوساط ملحية و حامضية
2005	تاثير بعض المعاملات الحرارية على خواص الفولاذ المتوسط الكاربون
2005	تأثير المعاملة الحرارية على مقاومة البلى لسبيكة ذات اساس (المنيوم 8%سيليكون)
2004	The Effect of Adding Ytteria Particles on The Mechanical Properties and Wear Resistance of (Al-8wt%Si)
2002	]Patentتصنيع مواد مركبه معدنية ذات اساس (المنيوم - سليكون) مدعمة بدقائق الكرافيت المسبك ميكانيكيا بالنحاس [
2001	تاثير بعض المعاملات الحرارية على مقاومة التاكل للصلب الكربوني في ماء الاسالة
1998	الانتشار بين الالمنيوم و الحديد