Aysha Shawkat Hasan
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https://scholar.google.com/citations?user=4X1kzu0AAAAJ&hl=en
https://www.researchgate.net/profile/Aysha_Hasan3
https://orcid.org/0000-0002-1293-8018
http://www.researcherid.com/rid/D-3794-2019
https://publons.com/researcher/1699857/aysha-shhasan/
https://www.scopus.com/authid/detail.uri?authorId=57205097286

Academic Qualification

MSc.Eng. (Production & metallurgy), University of Mosul, Iraq, 2003.

Bachelor of Mechanical Engineering , University of Mosul, Iraq, 2000.

Brief Profile

Mr. Aysha Shawkat Hasan obtained Bachelor of Mechanical Engineering in 2000 and a Master of Science in Mechanical Engineering in 2002 from the Department of Mechanical Engineering / College of Engineering at Mosul University, Iraq. She has published many technical papers in very reputable journals and international conferences in the area of metallurgy, welding, corrosion, engine performance and alternative green fuels. In addition, Mr. Aysha Shawkat Hasan worked as a lecturer at the Kirkuk Technical College of Technical Education, Iraq from year 2004 to 2014, and currently lecturer at the Northern Technical University, Iraq. Her present research interests are Materials Casting Corrosion, Welding of mechanical parts, alternative future green fuels.

Working Experiences / Appointment

February 2005 – December 2005	Senior Lecturer, Faculty of Engineer, University of Kirkuk.
December 2005– Present	Senior Lecturer, Kirkuk Technical College, Northern Technical University.

Expert Area

Materials Casting, Renewable Energy, Corrosion, Welding Of Mechanical Parts, Ls-Dyna program.

Research Interest

Materials Casting, Corrosion, Welding Procedure, Alternative fuels,.

Professional Qualification / Membership / Affiliation / Experience

1. Member of Iraqi Engineers Society.

Organizing Committee Member

1. Administrative Committee member, 1-st International Conference on Renewable Energy and Resources. March 7-8, 2017 Iraq, Kirkuk, Northern Technical College, Al-Hawiija Technical Institute. **Iraq**.
2. Administrative Committee member, International Conference on Engineer, Medicine and Applied Science (**ICMAS**) Turkey-Antalya 24-25 Sep. 2018. **Turkey**.

As a Reviewer

1. Reviewer, Conference Paper on IConMEAS .
2. Reviewer, «2nd Current Advances in Materials Applications» in the journal "Materials Science Forum.
3. Reviewer, «3nd Current Advances in Materials Applications» in the journal "Materials Today: Procedding.
4. Reviewer, 2nd International Conference on Renewable Energy- (2nd ICRE 2022), AIP.
5. Reviewer First International Conference on Sustainable Development Techniques 2022, AIP.
6. Reviewer, «5th Current Advances in Materials Applications» in the journal "Materials Today: Procedding.
7. Reviewer, NTU Journal of Renewable Energy,vol, 2, No. 1, 2022.

Teaching Experience

Northern Technical University – Kirkuk, Iraq. (2004-present)

Courses: Engineerin Thermodynamic; Numerical and Engineering Analysis; Engineering Statistics; Mathematics: Industrial Safety & Pollution; Property of Engineering Materials; Control & Measurements.

Under Graduate Projects

- Iron Corrosion (2008).
- Jib Crane (2009).
- Water Pollution and its Treatment (2009).
- Diffusion Bonding (2012).
- The Effect of Quenching Mediums on Microstructure and Mechanical Properties (2014).
- The Effect of Adding Antimony (Sb) to the Lead Base Alloys on Corrosion (2016).
- The Effect of Ozone on Corrosion of Aluminum, Brass, Carbon Steel and Pure Copper (2016).
- Production of Biofuel from Waste Cooking Oils (2018).

- Coating materials (2019).

List of Publications

1. Studying the corrosion of brass weldments by weight losses method(2014).

2. The impact of corrosion (Cu_37Zn) alloys welded by oxy_acetylene with three types of filler rods by weight losses method(2015).

3. Studying the effect of adding copper to aluminum in mechanical properties and thermal conductivity(2015).

4. Practical study on the corrosion rates of alloys (aluminium, medium carbon steel, copper & brass) using dissolved ozone(2017).

5. The effect of heat treatments on the corrosion rates of hypo-eutecoid steel in the water and salt environments(2017).

6. Effect of welding current on weldments properties in MIG and TIG welding (2018).

7. Effect of spot welding current cycle for medium carbon steel and stainless steel on mechanical properties (2018).

8. Studying the Effect of Adding Antimony (Sb) To The Lead Base Alloys On Corrosion In Acidic Mediums (2019).

9. Improvement of AISI 1018 Carbon Steel Gr 1018 mechanical properties by liquid carburizing in salt bath (2019).

10. Evaluation of SI engine performance and emissions using local gasoline fuel and ethanol additive (2020).

11. Effect of Antimony addition with Lead in H_2SO_4 Acidic Medium on corrosion behavior (2020).
12. Comparative Study on the Elongation of Low-Carbon Steel and Stainless Steel at Different Creep Temperatures (2022).
13. Modelling of SI Engine Performance and Emission with Ether Additives Artificial Neural Network (2024).

Conference Papers

1. Aysha Hasan,17-18 March, 2018.
2. Improvement of Gr 1018 steel mechanical properties by liquid carbunizing in salt bath, 26-27 Sep., 2019.
3. Investigation of the different material combination used in roof isulation for optimum cost. 28-30 Des.,2020.
4. Effect of AISI 4140 carbon steel heat treatments on specified mechanical properties (2022)

List of Course / Training Attended

1- Spot Welding Process.

2- MIG Welding Process.