Dr. Dheya Najm Abdulamer
Assistant Professor

Affiliation: Scientific Affairs Department, University of Technology- Iraq

Official Email: Dheya.N.Abdulamer@uotechnology.edu.iq

1) Biography:

Dr. Abdulamer awarded his B.Sc & M.Sc degrees in Materials Engineering from University of Technology- Iraq in 2004 & 2012, respectively. He gained his Ph.D degree in Materials Engineering from TU-Bergakademie Freiberg, Germany in 2020. He currently works with the academic staff of the Scientific Journals Division, Scientific Affairs Department, Vice President of University for Scientific & Postgraduate Affairs Office, University of Technology- Iraq.

2) Education

B.Sc degree in Materials Engineering, University of Technology- Iraq, 2004.
M.Sc degree in Materials Engineering, University of Technology- Iraq, 2012.
Ph.D degree in Materials Engineering, TU-Bergakademie Freiberg, Germany, 2020.

3) Research interest

Sand Moulding,
Powder Technology,
Functionally Graded Materials FGMs,
Renewable Energy & Cathodic Protection

4) Publications:

1. Utilizing Taguchi Method and Regression Analysis for Optimizing Sand Mould Flowability, Archives of Foundry Engineering, 2024, 24(3), pp. 5–9.
2. Numerical simulation of the bentonite-bonded sand mould compaction process using micro-mechanical parameter relationships, Canadian Metallurgical Quarterly, 2024, 63(4), pp. 1712–1719
3. Study on the impact of moulding parameters on the flow property of green sand mould, Canadian Metallurgical Quarterly, DOI: 10.1080/00084433.2023.2287797, 2023.
4. Optimizing Sand Moulding Process through Regression Models and Destructive Testing, Archives of Foundry Engineering, 2023, 23(4), pp. 163–168.
5. Utilizing of the Statistical Analysis for Evaluation of the Properties of Green Sand Mould, Archives of Foundry Engineering, 23(3), pp. 67–73, 2023, DOI: 10.24425/afe.2023.146664, 2023.

6. Impact of the Different Moulding Parameters on Properties of the Green Sand Mould, Archives of Foundry Engineering, 10.24425/afe.2023.144288, vol 23, issue 2, 2023.
7. Simulation of weather and metal of absorber plate impact on the characteristics of flat plate solar collector, Bilad Alrafidain Journal for Engineering Science and Technology,1(1),https://doi.org/10.56990/bajest/2022.010102, 2022.
8. Investigation of flowability of the green sand mould by remote control of portable flowability sensor, Archives of Materials Science and Engineering, vol 112, issue 2, 2021.
9. Impact of Asphalt Layer and Glass Thickness on the Thermal Storage of Pavement, 2021 International Conference on Communication & Information Technology (ICICT), 27 June 2021, DOI: 10.1109/ICICT52195.2021.9568449.
10. Simulation of the Moulding Process of Bentonite Bonded Green Sand, Archives of Foundry Engineering, vol 21, issue 1, 2021.
11. Utilising Flowability Sensor for Green Sand Mould Characterisation, Ziggurat Journal of Materials Technology (ZJMT), DOI: 10.36533/zjmt.v1i1.30 , vol 1 issue 1 (2020) .
12. Development of Mathematical Relationships for Calculating Material-Dependent Flowability of Green Molding Sand," Journal of Materials Engineering and Performance, vol. 28, no. 7, pp. 3994-4001, 2019.
10. New Investigation of Material- dependent-control of Flowability in Green Sand Molding, 73rd world foundry congress, 23-27.09.2018, Krakow, Poland.
13. Development of Mathematical Relationships for Calculating of Material-Dependent- Flowability of Green Molding Sand, 73rd world foundry congress, 23-27.09.2018, Krakow, Poland.
14. Optimization Performance of Solar Collector Based on the Fractional Factorial Design, Journal University of Kerbala , Vol. 15 No.4 Scientific , 2017.
15. Study of Nano powder for Improvement the Mechanical Properties of Armor, Journal of Babylon University/Engineering Sciences/ No.(1)/ Vol.(24), 2016.
16. Simulation Effect of Brick Materials on the Micro Thermo Mechanics Behavior of Electrical Furnace, published in Iraqi journal of mechanical engineering and materials Engineering, Babylon University, 2014
17. Fabrication of Ceramic-Metal Functionally graded materials, Eng. and Tech. Journal, Vol.31, No.3, 2013.
18. Study the parameters effect on the design of solar energy system for impressed current cathodic protection for oil pipelines, proceeding of national renewable energies conference and their applications 2013.
19. Modeling and design of flat plate solar collector using different physical and geometrical conditions, proceeding of national renewable energies conference and their applications 2013.
20. Effect of plate materials and ambient conditions on the design of flat plate solar collector, Paripex- Indian Journal of research, Vol. 2, issue. 9, 2013.

21. Effect of soil resistivities for different geometrical anodes on design photovoltaic for cathodic protection system, Global Research Analysis, Vol.2, Issue.11, ISSN No. 2277-8160, 2013.
22. Effect of soil resistivity on the design of sacrificial cathodic protection system, published in Journal of petroleum researches and studies, ISSN. 2220-5381, No.9, Dec 2013.
23. Poster, (Development of mathematical relationships for calculating of Material-dependent Flowability of green moulding sand, 73rd world foundry congress, 2018, Krakow.
24. Poster, (Sensoren zur Bestimmung der Formstoffdichte direkt inn jeder Form), International Deutsches Formstoff-Forum 2016, Gießerei- Institute der Universität Duisburg- Essen.
25. Poster, (Neue methode zur Fließbarkeitsbestimmung tongebundener Formstoffe), International Deutsches Formstoff-Forum 2016, Gießerei-Institute der Universität Duisburg- Essen.

4)Teaching

Powder Metallurgy,
Materials Inspection,
Materials Selection,
Phase Transformation,
Failure Theories.

5) Honors, Awards & Recognition Letters

- Membership in the German Engineers Association/ Saxony State,
- Recognition letter, Iraq Education Expo, Baghdad, 2023,
- Recognition letter, DAAD, Iraq, 2023,
- (2) Recognition letters, 73rd world foundry congress, Krakow, Poland, 2018.
- Recognition letter, National renewable energies conference and their applications, Iraq, 2013.

5) Academic Profiles Links:

- **Google Scholar:**

https://scholar.google.com/citations?user=Sgf1XkgAAAAJ&hl=en&oi=ao

- **ResearchGate:**

https://www.researchgate.net/profile/Dheya_Abdulamer

- **Orcid:**

https://orcid.org/0000-0002-3579-4467

- **Web of Science:**
https://www.webofscience.com/wos/author/record/46711620

- **Scopus**
https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=57207189581&zone=