



C.V. and Academic work

PERSONAL INFORMATION

Name	Badiea Abdullah Mohamed Mahyoub
Place and date of birth	Taiz, Yemen, 28-08-1976
Social status	Married
Nationality	Yemeni , lives in in Kurdistan Region since 2020
Tel	+964 750 726 5941
E-mail	badiea.mahyob@cheme.soran.edu.iq badeea5@taiz.edu.ye

EDUCATIONAL ACADMIC QUALIFICATION

B. Sc. In Chemical Engineering, June 1998, Baghdad University, Iraq.
M.Sc. in Chemical Engineering, February 2003, Basrah University, Iraq.
Ph.D. In Corrosion Engineering, September 2010, University of Mysore, India.

Associate professor: March 2017
I have applied for professor in December 2023 and still in processing.

LANGUAGES

Arabic: mother tongue
English: Speaking, Writing, Reading and Listening : Fluently

POSITIONS

- **June 2022- Still:** Head of the department of Chemical Engineering, Soran University, Kurdistan Region.
- **September 2020 - Still:** Associate Prof. in Chemical Engineering Department, Soran University, Kurdistan Region.
- **August 2017 – October 2019:** Dean of Center of Postgraduate Studies, Tazi University, Yemen.
- **September 2013- August 2017:** Vice dean of Faculty of Engineering and IT, Taiz University, Yemen.

- **April 2012 – August 2013:** Head of the department of Industrial and Manufacturing System Engineering, Taiz University, Yemen.
 - **May 2011 – Still:** Manager of Water project in Taiz Governorate, Yemen.
 - **June 2010 – March 2012:** An Engineer in SEPOC (Safer Exploration and Production Oil Company), Yemen-Hunt oil company before, Petroleum and Gas processing.
 - **March 2010 – Still:** Trainer for Cathodic Protection and internal Corrosion.
 - **September 2004 – May 2005:** Assistance lecturer at Hadramout University, Yemen.
 - **Jan 2004 - Jul 2005:** Employee at PEPA, Ministry of Oil, Yemen as an Engineer in the field development, Yemen-Hunt Oil Company, Yeme
-

**EXPERIENCES
AND
SCIENTIFIC
COMMETTEES**

Teaching for the following courses for Undergraduate and Postgraduate:

September 2020 – Still: Associate professor at Soran University, Faculty of Engineering, Chemical Eng. Dept, Kurdistan Region:

- **For Ph.D:** Advanced Mass and Heat Transfer (Duhok University, Duhok)-
- **For M.Sc:** Advanced Chemical Process control – Advanced Mass Transfer.
- **For B. Sc:** Chemical Process Control - Dynamic Process Control -Natural Gas Processing – Mass Transfer - Separation Process – Unit Operation – Engineering Analysis - Equipment Design – Heat Transfer – Fluid flow for Chemical Engineering –Reactor Design - Refinery Engineering – Numerical and Optimization.

October 2011- Jan 2020: (2011-2017 Assistant professor – at 2017 Associate professor) at Taiz University, Faculty of Engineering and IT, Industrial and Manufacturing System Engineering dept, Yemen:

- **For For B.Sc:** Reliability and Safety Engineering – Plant Design – Experimental Design – Engineering Mechanics (Statistics and Dynamics) – Strength of materials - Fluid Mechanics - Machine element design - Hydraulic and pneumatic system design - Industrial process control - Materials science and engineering - Numerical Analysis - Heat transfer - Engineering Maintenance - Measurement and Instrumentation.
- **For M.Sc:** Engineering Methods

Postgraduate Evaluation and scientific committees:

- Evaluation 14 thesis for M.Sc and 7 Thesis for Ph.D.

- Supervisor for 10 M.Sc students, and 2 Ph.D students.
- Head/Member of Scientific Committee for 7 M.Sc students, and 4 Ph.D students.

Academic Administration:

- 10 Years at Taiz University and 4 years Soran University

Trainer

- 2010 – 2012: CP trainer at Al shoroq center, Sanaa, Yemen.
- 2010 – 2013: NDT trainer at Al shoroq center, Sanaa, Yemen.

SCIENTIFIC PARTICIPATION

- **April 2020 - still:** Scientific committee member for proposal evaluation (Ph.D and M.Sc students) .
- **June 2021- still:** Examination Scientific committee member for postgraduate.
- **March 2021 -Still:** Scientific Promotion Committee at the university.
- **2021 – Still:** Scientific committee for postgraduate Evaluation.
- **March 2, 2021 - April 9:** Scientific and Organizing committee member at 2nd international Symposium on Applied Science and Engineering, Atatork University, Turkey (ISASE-2021)” held during April 7-9, 2021. <https://isase2021.atauni.edu.tr/committees/>
- **2021, April:** Scientific committee member at Seventh University Student Conference, Faculty of Engineering, Soran University, held during April 7th, 2021.
- **April 7, 2021:** Speaker on the 2nd International Symposium on Applied Science and Engineering, Atatork University, Turkey (ISASE-2021)” that will be held during April 7-9, 2021. <https://isase2021.atauni.edu.tr/speakers/>
- **March 2021 - Still:** Examination Committee member for postgraduate, Faculty of Engineering, Soran University.
- **8th April, 2021:** Seminar at Soran University, Utilization and Manufacturing plastic brick as alternative for conventional concrete brick.
- **2017: Founder** for many master programs at Taiz University (Master of Health management, Maser of Crisis and Disaster Management).
- **2013:** Participating for developing and description for the curriculum of undergraduate courses, Ministry of higher education, Yemen, Sponsor by international bank.
- **May 2023:** Preparing and Speaker at workshop “rule of Chemical Engineering and its effect on the society”.
- **June 2023:** Speaker at International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2023) held in Pune-India (15th-16th June 2023).

COMPUTER SKILLS

Professional: Word, Excel and PowerPoint.
MATLAB for Engineers, polymath

HOBBIES

Playing Football; Swimming; Traveling.

PUBLICATIONS

Research title	Publication date	journal name (publisher), Rank country	Author* and Co-authors
Corrosion Mechanism of A333 and API 5L in 0.02 M Acidic Crude Oil Using Sodium Sulfite- Ginger Extract as Inhibitor at different Temperature and Fluid Velocity of the Medium	2024	Annales de Chimie: Science des Materiaux Q3	Badiea A. M. , K.N. Mohana
Systematic fuzzy reliability centered maintenance decision making process	2024	Journal of Quality in Maintenance Engineering, Q2	A. A. Ahmed R. Ahmed, Badiea A M
A systematic reliability-centred maintenance framework with fuzzy computational integration—a case study of manufacturing process machinery	2024	Journal of Quality in Maintenance Engineering, Q2	A. A. Ahmed R. Ahmed, Badiea A M
Application of fuzzy failure mode, effect and criticality analysis (fuzzy FMECA) with extended rule of criticality ranking assessment: A case study in ghee and soap industry	2023	American Institute of Physics (AIP)	Adel, A. A. Ahmad, R. Badiea, A. M. Mustafa, S. A.
Utilization of Plastic and Glass Waste Mixed With Sand As An Alternative Brick Materials	2023	Journal Materials Protection Scopus, Q4	Badiea A. M. Amer hayel Adel Ali Ibtisam Kamal
Design of Nanofluid-Based Spring Water/Tap Water and Nanoparticles of Fe ₂ O ₃ /ZnO as a Coolant for the Engines	2023	Diyala Journal of Engineering Sciences	Kaiwan Muslih Badiea A. M
Environmentally Friendly Additives for Aqueous Drilling Fluid Systems: Optimum Flow Characteristics and Models	2023	E3S Web of Conferences	Ibtisam Kamal, Badiea Abdullah
Implementing Total Productive Maintenance in Companies for Industry and Commerce (YCIC)	2023	European Journal of Applied Sciences (EJAS)	Badiea A. M. Wael Bakeel Adel Ali

Implementing an integrated maintenance management system for monitoring production lines: a case study for biscuit industry.	2021	Journal of Quality in Maintenance Engineering, Emerald (Q2), UK	Mokhtar omrani Mansour A Badiea A. M.
Effect of Preventive Maintenance on the Production Line Machines and Systems Reliability.	2020	Current Journal of Applied Science and Technology, Sciedom ain (Scopus), India	A. M. Badiea A. A. Adel H. A. Aamer,
Techniques and Assessment of Lean Manufacturing Implementation: An Overview.	2020	International Journal of Engineering and Artificial Intelligence Malaysia	A. A. Adel A. M. Badiea 3. M. K. Albzeirat
Implementing an integrated maintenance management system for monitoring production lines: a case study for biscuit industry.	2020	Journal of Quality in Maintenance Engineering, Emerald (Q2), UK	Mokhtar A. Mansour Alhomdi Badiea A. M.
Production of Biodiesel Fuel from Cooking Oil Waste.	2016	Journal International Research Journal of Engineering and Technology Science domain, India	B. G Mohammed, A. M Badiea, S. Q Moad
Glass-Polymer- Concrete Composite and Its Mechanical, Chemical and Thermal Properties	2016	Current Journal of Applied Science & Technology, (sciedomain) India	A. M. Badiea B. G. Mohammed A. Albadran Firas
Effect of 3 wt% Al Content and Rapid Solidification on the Erosion-corrosion Behavior of 92 wt% Cu and 5 wt% Ni Alloy in Seawater	2016	Chemical Science International Journal (sciedomain) India	A. S. Abdulghani A. M. Badiea B. G. Mohammed
Inhibition of Low carbon steel of Heat Exchangers in industrial water medium by some plants extract	2013	Journal of Materials and Environtal Science Morocco	A. M. Badiea* K. N. Mohana
Inhibition of Mild Steel Corrosion in 0.25 M Sulphuric Acid Solution, by Imatinib Mesylate, Badiea	2011	Journal of the Korean Chemical Society South Korea (Q3)	K. N. Mohana S. S. Shivakumar, A. M. Badiea
Energy losses by aluminum: India, International Journal of chemical Engineering Research.	2009	Journal of chemical Engineering Research India	Hany A. D. Badiea A. M.
Effect of fluid velocity and temperature on the corrosion mechanisms of low carbon steel in industrial water in absence and presence of 2-hydrazino -4,7- dimethylbenzothiazole	2009	Corrosion Science (Science direct), Elsevier (Q1), UK	Badiea A. M. K. N. Mohana,
Corrosion mechanism of low-carbon steel in industrial water and adsorption thermodynamics in the presence of plant extracts.	2009	Journal of Materials Engineering and Performance Springer (Q2)	Badiea, A. M. Mohana, K. N.

USA

The effect of sodium benzoate and sodium 4-(phenylamino) benzenesulfonate on the corrosion behavior of low carbon steel	2009	Monatshefte Fur Chemie Springer (Q3) Austria	A. M. Badiea K. N. Mohana
Effect of fluid velocity and temperature on the corrosion mechanism of low carbon steel in industrial water in the absence and presence of 2-hydrazino benzothiazole.	2008	Korean journal of Chemical Engineering Springer (Q2) South Korea	A. M. Badiea K. N. Mohana
Effect of sodium nitrite–borax blend on the corrosion rate of low carbon steel in industrial water medium.	2008	Corrosion Science (Science direct) Elsevier (Q1) UK	Badiea A. M. K.N. Mohana
New study of passivation as an isotherm on metals surfaces: theoretical and experimental approaches.	2008	ZAŠTITA MATERIJALA Metals Protection Croatia	A. M. Badiea K. N. Mohana
Thermal conductivity characteristics of polymer composites based on polyethylene wastes filled with post—industry wood wastes.	2002	Petroleum and chemical engineering Journal, (Baghad University) Iraq	Ibtisam M. K. Badeea A. M.

PAPERS PRESENTED AT CONFERENCES

Research title	Year	Conference name	Author* and Co-authors
Environmentally Friendly Additives for Aqueous Drilling Fluid Systems: Optimum Flow Characteristics and Models	2023	International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2023) held in Pune-India	Ibtisam Kamal Badiea A. M.
Utilization of Plastic and Glass Waste Mixed With Sand As An Alternative Brick Materials	2021	2nd International Symposium on Applied Science and Engineering (ISASE-2021), Atatork University, Turkey	Badiea A M Amer Hayel Adel Ali

Comprehensive Recycling of Paper Waste in Yemen	April 2019	Hult Prize Cairo, Egypt	Badiea A M Amer Hayel Husam Abdullah
Building Bricks decoration	June 2019	One Belt, One Road Chania	Badiea A M Amer Hayel Husam Abdullah
The effect of some plant extracts on the corrosion behaviour of low carbon steel in industrial water Conference on	2008	Frontiers in Chemical Research (ICFCR) held at Department of studies in Chemistry, Mangalore, India	Badiea A M Badiea A M , K. N. Mohana
Novel study on surface dynamics with passivation as an isotherm on metals surfaces: Theoretical and experimental approaches.	25-27 November 2008	<i>International Conference of Corrosion Challenges in Industries (ICCC)</i> held in Egypt	Badiea A M K. N. Mohana

THESIS EXCERPT

Thesis Title	Level	Year	Faculty /University
Evaluation of effectiveness of marble waste as a major component on concrete and its effect on thermal, mechanical and physical properties	Master	2021-2023	Center for Graduate Studies- Engineering/ Taiz University, Yemen
Lean implementation in manufacturing and services at Bokhamseen Aluminum factory, Al-Ahsa, Kingdom of Saudi Arabia	Master	2021-2022	Center for Graduate Studies- Engineering/ Taiz University, Yemen
Design of Nanofluid as a coolant for engine, and its effect on heat transfer and friction factor	Master	2022-2023	Engineering/ Soran University, Kurdistan region, North of Iraq, Iraq
Modeling and Optimization the Effect of some Operating Variables Including Feed Water Temperature and Pressure on Salt Rejection % and Water Flux of Reverse Osmosis Process	Master	2021-2023	Engineering/ Soran University, Kurdistan region, North of Iraq, Iraq
Implementing an integrated maintenance management system for monitoring production lines: a case study for biscuit industry	Master	2017-2019	Center for Graduate Studies- Engineering/ Taiz University, Yemen

Recycle the Produced Water from Oil and Gas Operations at Masila Block and Greening the Desert: Case Study	Master	2017-2019	Center for Graduate Studies- Engineering/ Taiz University, Yemen
Implementing Total Productive Maintenance in Yemeni Company for Industry and Commerce (YCIC): Case Study	Master	2017-2019	Center for Graduate Studies- Engineering/ Taiz University, Yemen
The Impact of New Nanomaterials on CO ₂ Diffusion Coefficients and Surface Properties of CO ₂ -nanofluid in CO ₂ Sequestration Process.	Ph.D	2024	Engineering/ Soran University, Kurdistan region, North of Iraq, Iraq
Applications of green nano-surfactant solution in enhanced oil recovery	Ph.D	2023	Engineering/ Soran University, Kurdistan region, North of Iraq, Iraq
Enhancing desulfurization of crude oil using green oxide metals nanoparticles: Characterization and Thermodynamic adsorption isotherm	Ph.D	2024	Engineering/ Soran University, Kurdistan region, North of Iraq, Iraq