

Dr. Mohammad Tahir Hamza ALSadi
Ph.D. Materials Technologies



- *Date of Birth: 28 / 03 / 1984 / Iraq - Baghdad.*
- *Nationality: Iraqi.*
- *Religion: Muslim.*
- *Gander: Male.*
- *Languages: Arabic and English (Reading, Writing & Speaking).*
- *Mother Tongue: Arabic.*
- *Marital Status: Married.*
- *Permanent Address: Iraq / Baghdad.*
- *Mobile No. [+964 7703993009]*
- *E-mail Address. [mohammad_tahir_84@yahoo.com]*
- *G-mail Address. [dr.mohammad.tahir.1@gmail.com]*
- *Research Gate site as [Mohammad T. Hamza]*
- *https://www.researchgate.net/profile/Mohammad_Hamza5*

Academic Qualifications:

- *Ph.D. Materials Technologies / University of Technology / Applied Science Dep. 2019*
 - *M.Sc. Materials Science / University of Technology / Applied Science Department 2009*
 - *B.Sc. Materials Science / University of Technology / Applied Science Dep. 2005-2006*
- ✓ *Ph.D. Thesis Title : “Manufacturing Polymer Concrete by Using Reused Aggregates”*
- ✓ *M.Sc. Thesis Title: “The Effect of the time and temperatures of firing on the mechanical properties of aluminum compact which reinforced by silicone oxide”.*

Current Job Title

- *Senior Physicist / fifth grade / Ministry of Science and Technology / Environment and Water Directorate / Environmental Research Center.*
- *Scientific Researcher.*
- *Head of XRF Laboratory.*
- *Head of Environmental Impact Monitoring Division.*
- *Member of Quality Unit.*

Acknowledgment's (5).

Research

1. *“Recycle the construction and demolition waste to produce polymer concrete”, 2018, Journal of Physics IOP Publishing (UK)*
2. *“Manufacture of epoxy and polyester green polymeric mortar using recycled aggregates”, 2018, Published by the American Institute of Physics (US)*
3. *“Characteristics of polymer concrete produced from wasted construction materials”, 2018, ELSEVIER , Energy Procedia*
4. *“Influence of Recycled Construction Waste on the Physical and Mechanical Behaviour of Polymer Concrete-Composite Materials”, 2019, 6th International Scientific Conference on NANO Technology*
5. *“Reusing Iraqi construction and aggregates waste to manufacturing Eco-Friendly polymer concrete”, 2019, College of Science, Mustansiriyah University*
6. *“The effect of time and temperatures of firing in the mechanical properties of aluminum compact which reinforced by silicon oxide” 2011*
7. *The project in B.Sc. “Building a device for measuring the hardness of the material in a manner bounce” 2006*
8. *“Estimate the concentration of black carbon (soot) from different sources and the statement of the health on traffic police checkpoints in different areas in the city of Baghdad” 2014*
9. *“Assessment of the environmental impact caused by random damage for analyzer the dry batteries in landfill sites” 2016*
10. *Study “The Role of Nanotechnology in the reduction of environmental pollution” 2012*
11. *Study “The impact of industrial pollution events in the Tigris River water pollution in the city of Baghdad” 2013*
12. *Study “The environmental impact of air pollutants and noise in the holy Al-Kadhimiya Mosque and the statement of the health impacts on visitors” participant 2013*
13. *Study “Determination of concentration of heavy metals in soils and electricity station in Dora” 2015*
14. *“The environmental impact of broadcast television stations in the province of Baghdad” participant 2014*
15. *“Environmental and Health Assessment of exposure to electromagnetic fields of computers and Internet equipment” participant 2014*

The Committees and the Units

- 1- Head of XRF Laboratory / Environmental Research Center.*
- 2- Head of Environmental Impact Monitoring Division.*
- 3- Member of Unit Nanotechnology Research in Environmental Research Center*
- 4- Member of the science team for the inventory of e-waste and the development of methods of treatment and disposal.*
- 5- Member of the Committee to determine the technical specifications of scientific and specialized devices (nuclear, analytical, laboratory) and other devices of different measurements in circles and formations of the ministry.*
- 6- Member of Quality Unit in the Environment and Water Directorate.*

Certificates

- 1. “Analysis of Samples Using Bruker XRF S8 Tiger” Royal Scientific Society / Amman Jordan, 2019*
- 2. The 1st International Conference on Safety and Security of the Scientific Applications (ICSSSA) 26-27 September 2018, College of Science, Mustansiriyah University Baghdad, Iraq*
- 3. 6th International Scientific Conference on NANO Technology, Advance Materials and its Applications (ICNAMA 2018) 2-3 May 2018*
- 4. Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES18, 19–21 September 2018, held at Athens, Greece*
- 5. IBN AL-HAITHAM First International Scientific Conference, held at University of Baghdad, Iraq*
- 6. Joint International Conference on Nanoelectronics Engineering and Green Materials Conference, held at Bandung, Indonesia from 27 to 28 July, 2018.*
- 7. Workshop “prospects, foundations and requirements of sustainable development in Iraq”. Place in the University of Technology for the period 4- 03/08/2012*
- 8. Workshop “radioactive contamination potential and Threats”, 24-25 / 9/2013*
- 9. Women’s Second National Conference on Science. Ministry of Science and Technology in the Palestine Hotel.*
- 10. Participation in the Forum and the 2nd energy conference held in Baghdad University*
- 11. Participation in the 4th International Conference on Nano Technology held at the University of Technology*
- 12. Participation in the “2nd Scientific Conference of The Control Engineering, Computers and Electronics” University of Technology*
- 13. Second Conference of Design and Environment, Middle Technical University, 2015*

Lessons of B.Sc.

First Year	Second Year	Third Year	Fourth Year
<i>Extraction of Materials</i>	<i>Properties of Materials</i>	<i>Metallurgy & Phase Transformation</i>	<i>Coating Technology</i>
<i>Analysis Chemistry</i>	<i>Organic Chemistry</i>	<i>Nondestructive & Materials Testing</i>	<i>BIO Materials</i>
<i>Mathematics</i>	<i>Mathematics</i>	<i>Polymer</i>	<i>Solid State Physics</i>
<i>Engineering Drawing</i>	<i>Computers</i>	<i>Applied Mathematics</i>	<i>Spectroscopy</i>
<i>Computers</i>	<i>Heat & Thermodynamic</i>	<i>Crystallography & Crystalline defects</i>	<i>Composite Materials</i>
<i>Workshop</i>	<i>Modern Physics</i>	<i>Ceramics & Glasses</i>	<i>Insulating Materials</i>
<i>Electrical & Magnetic</i>		<i>Quantum Mechanics</i>	<i>Computers</i>

Subjects of M.Sc.

Class one	Class two
<i>Solid state physics</i>	<i>Physical analysis technique</i>
<i>physical metallurgy</i>	<i>Applied mathematics</i>
<i>Polymers</i>	<i>Applied metallurgy</i>
<i>Ceramics</i>	<i>Glass & composite materials</i>
<i>vacuum physics</i>	<i>Plasma physics</i>
<i>Thin films</i>	<i>English language</i>
<i>Computers</i>	

Subjects of Ph.D.

Class one	Class two
<i>Advance Ceramic</i>	<i>Nano technology</i>
<i>Magnetic Material</i>	<i>Advance polymer</i>
<i>Composite Material</i>	<i>Surface protection</i>
<i>Alloys for advance technology</i>	<i>Computational</i>
<i>Thin film and vacuum technology</i>	<i>Insulating materials</i>
<i>English skill</i>	<i>English skill</i>

Computer Skills:

<i>Windows NT</i>	<i>ANSIS</i>
<i>Microsoft Office:-</i>	<i>Computational Complexity</i>
<i>Word</i>	<i>Photo Editor</i>
<i>Excel</i>	<i>computer languages:-</i>
<i>Power Point</i>	<i>MATLAB</i>
<i>Paint</i>	<i>Visual Basic</i>
<i>Excellent use of the Internet Publishing</i>	<i>Excellent use of the electronic mail</i>

Courses:-

<i>Analysis of Samples Using Bruker XRF S8 Tiger</i>	<i>Royal Scientific Society / Amman Jordan</i>
<i>Radiation Safety</i>	<i>Ministry of science and technology</i>
<i>Occupational Safety</i>	<i>Ministry of science and technology</i>
<i>Nano Materials and it's Application</i>	<i>Ministry of science and technology</i>
<i>Using Atomic Absorption measurement models</i>	<i>Ministry of science and technology</i>
<i>Sustainable Development (work shop)</i>	<i>University of technology</i>
<i>XRF , X-ray Fluorescence Device</i>	<i>Ministry of science and technology</i>
<i>English Skill</i>	<i>Ministry of science and technology</i>
<i>Writing research papers for scientific publishing</i>	<i>Ministry of science and technology</i>
<i>Environmental pollution with RF radiations , TV, Wi-Fi, mobile towers.</i>	<i>Ministry of science and technology</i>
ISO: 9001, 10013, 17025, 18001, 26001, 14001.	<i>Ministry of science and technology</i>

Employments

1	<i>B.Sc. Study (2002-2006)</i>	<i>University of Technology</i>
2	<i>M.Sc. Study (2006-2009)</i>	<i>University of Technology</i>
3	<i>Super Visor (2009-2010)</i>	<i>Natural Center for Economic Research</i>
4	<i>Lecturer (2010-2011)</i>	<i>University of Arab Academics</i>
5	<i>Physicist (2011-2016)</i>	<i>Ministry of Science and Technology</i>
6	<i>Ph.D. Study (2016-2019)</i>	<i>University of Technology</i>
7	<i>Senior Physicist (2019 till now)</i> <i>Scientific Researcher.</i> <i>Head of XRF Laboratory.</i> <i>Head of EIM Division.</i> <i>Member of Quality Unit.</i>	<i>Ministry of Science and Technology</i>