

## C.V



**Name:** Ali Mazin Abdul-Munaim

**Martial statues:** Married

**Specialization:** Tractor and Power

**Position:** Assistant Professor and Chairman of the Department of Agricultural Machines and Equipment

**Scientific Degree:** Ph.D.

**Work Address:** Dept. of Agricultural Machines & Equipment

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### **■ First, Scientific Certification:**

Degree science	University	College	Date
B.Sc.	Baghdad	Agriculture	1995
M.Sc.	Baghdad	Agriculture	1999
Ph.D.	Southern Illinois University Carbondale	Agriculture	2018

### **■ Second, University Teaching:**

No.	University	The (Institute / College)	From -To
1	Baghdad	College of Agricultural Engineering Sciences	Tenured Assistant: Professor 2010 to present
2	Baghdad	Agriculture College	Tenured Instructor: 2007 through 2009
3	Baghdad	Agriculture College	Assistant Instructor; 2003 through 2006

**Third, Courses Which You Teach:**

No.	Department	Subject	Year
١	Soil Sci.	Farm machinery	2004
٢	Agric. Economic	Farm machinery	2005
٣	Agric. Machines & Equipment	Engineering Mechanics static	2004/2005/2006/2007/2008/2009
٤	Agric. Machines & Equipment	Metallurgy	2005
٥	Agric. Machines & Equipment	Farm Building	2007/2008/2009/2010/2018
٦	Agric. Machines & Equipment	Hydraulics Machinery	2010
٧	Agric. Machines & Equipment	Thermodynamics	2004/2005/2006
٨	Agric. Machines & Equipment	Farm Machinery Management	2010/ 2018
٩	Agric. Machines & Equipment	Farm Machinery	2006/2007/2008

**Fourth, Conferences which you participated:**

No.	Conferences Title	Year	Place	Type of Participation
1	Annual International Conference ASABE	2015	U.S. A	Research paper
2	Annual International Conference ASABE	2016	U.S. A	Research paper
3	Pittcon Conference and Expo	2017	U.S. A	Poster Presentation
4	73rd International Symposium on	2018	U.S. A	Poster Presentation

## ■ **Fifth, Membership:**

- American Society for Biological and Agricultural Engineers Member (ASABE).
- Society of the Automotive Engineers International Member (SAE).
- Institute of Electrical and Electronics Engineers Member (IEEE).
- American Society for Testing and Materials Member (ASTM).

## ■ **Sixth, Scientific Activities:**

Within the College	Outside the College
<p><b>Co-editor</b> for Iraqi Journal of Agricultural Sciences –Baghdad, Iraq) from October 2018 to present.</p>	<p><b>Co-editor</b> for AMA (Agricultural Mechanization in Asia, Africa and Latin America/ international Journal –Tokyo, Japan) from October 2011 to present.</p>
<p><b>Chairman</b> of Agric. Machines Equipment Department, College of Agriculture, University of Baghdad, 2004 through 2006</p> <ul style="list-style-type: none"> <li>• Managed faculty and semester course assignments and decided class meeting times and locations.</li> <li>• Member of the Scientific Committee at the department of Agricultural Machines and Equipment.</li> <li>• Member of the committee of graduate students at the department of Agricultural Machines and Equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• Development and Continuing Education Center, Baghdad University, The educational developing methods of teaching &amp; university staff training, 2003.</li> <li>• Collage of Education\ Department Of Computer Science, Computer Application, Baghdad, Iraq 2002</li> <li>• College of Languages\ University of Baghdad, German language courses, Baghdad, Iraq 2001</li> </ul>

<p><b>Chairman</b> of Agricultural Machines &amp; Equipment Department, college of Agriculture, University of Baghdad from 16 November 2008 until 21 November 2011</p> <ul style="list-style-type: none"> <li>• Member of the Scientific Committee at the department of Agricultural Machines and Equipment.</li> <li>• Member of the committee renewing curriculum for undergraduate students at the department of Agricultural Machines and Equipment.</li> <li>• Member of the committee renewing curriculum for graduate students at the department of Agricultural Machines and Equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Member</b> of the committee renewing curriculum for students of agricultural high school in Iraq, 2010 through 2013</li> </ul>
<p><b>Chairman</b> of Agricultural Machines &amp; Equipment Department, college of Agriculture, University of Baghdad from 1 July 2018 to present</p> <ul style="list-style-type: none"> <li>• Member of the committee renewing curriculum for undergraduate students at the department of Agricultural Machines and Equipment.</li> <li>• Managed faculty and semester course assignments and decided class meeting times and locations.</li> <li>• Member of the Scientific Committee at the department of Agricultural Machines and Equipment.</li> </ul>	

■ **Seventh, languages:**

- ✓ Arabic
- ✓ English
- ✓ Germany

## LIST OF PUBLICATIONS

1. Abdul-Munaim, Ali Mazin, Lutfy, H.M.Ali and Ahmed y. 1998. Study of suitability for use of engine oil sold on city streets. *The Iraqi J. Agric. Sci.* 29 (1):393-397.
2. Al-Kazzaz, K.M.A. and Abdul-Munaim, Ali Mazin. 2000. Studying the suitability of using the improved diesel oil type S-3 in the agricultural tractors during tillage operation with different gear speed. *Iraqi J. Agriculture* 5 (5):130-136.
3. Al-Kazzaz, K.M.A. and Abdul-Munaim, Ali Mazin. 2001. Studying the suitability of use the improved diesel oil type s-3 in the agricultural tractors during the operation of land leveling with different gear speeds. *The Iraqi J. Agric. Sci.* 32 (6):183-187.
4. Al-Kazzaz K.M.A and Abdul-Munaim, Ali Mazin. 2003. Studying the suitability of use the improved diesel oil type S-3 in the agricultural tractors during disk harrows working operation with different gear speeds. *The Iraqi J. Agric. Sci.* 34 (2):251-256.
5. Abdul-Razak Falah J, and Abdul-Munaim, Ali Mazin. 2006. The effect of adding water to tractor tires and tillage depth on some mechanized characteristics using disk plow. *The Iraqi J. Agric. Sci.* 37 (3):171-174.
6. Abdul-Munaim, Ali Mazin. 2006. Influence of pad type and time in the performance of evaporative cooling unite for poultry house. *The Iraqi J. Agric. Sci.* 37 (3):175-180.
7. Abdul-Munaim, Ali Mazin. 2006. Influence of pad type and water flow rate on the performance of evaporative cooling unite for poultry house. *The Iraqi J. Agric. Sci.* 37 (6):85-90.
8. Abdul-Munaim, Ali Mazin. 2007. Comparison among three kinds of fillings on the performance of evaporative cooling pads for poultry house. The 10th scientific conference for foundation of technical education March: 65-74.
9. Abdul-Munaim, Ali Mazin and H. Alhadithey. 2007. Effect of tire's inflation pressure, tillage's depth, and speeds using chisel plow on some machine characters. The 10th scientific conference for foundation of technical education March: 418-429.
10. Abdul-Munaim, Ali Mazin. 2008. Determination of the performance of local pad in direct evaporative cooling system for poultry house. *The Iraqi J. Agric. Sci.* 37 (6):122-128.
11. Abdul-Munaim, Ali Mazin and M.T. AL-Hadidy. 2008. The effect of two type of plows with four speeds on the field capacity and bulk density. *AM4, Agricultural Mechanization in Asia, Africa and Latin America* 39(4):39-41.
12. Abdul-Munaim, Ali Mazin .2009. Influence of pad mass and thickness on the performance of evaporative cooling unite for poultry house. *The Iraqi J. Agric. Sci.* 40 (2):172-179.
13. Abdul-Munaim, Ali Mazin. 2009. Cooling poultry house by using pad made of palm rachis. *Dila J. Agric. Sci.* 1(2):95-103.
14. Al-Ani, F.S. and Abdul-Munaim, Ali Mazin. 2009. Comparing the effect of using white wood shaving and reed as pad cooling materials in evaporative cooling of poultry houses. *Yemeni J. Biol. Sci.* 5(2):37-42.
15. Abdul-Munaim, Ali Mazin, A.N. Abed and Oday M. Abdul-Munaim. 2010. Determination the performance for two kinds of evaporative cooling pads using in Iraq. *J of college of basic education.* 16 (61):875-883.
16. Abdul-Munaim, Ali Mazin. 2010. The extent of using alternative materials instead of wooden pads in evaporative cooling system for poultry house. Ministry of higher Education

and Scientific Research/ University of Baghdad/ Center of Revival of Arabian Science Heritage/ Symposium of Agriculture between heritage and contemporary, pp:174-178.

17. Abdul-Munaim, Ali Mazin, A.S.Al-najjr., N.S.Kadum., H.M.Al-Shkry.and A.Abdulsda. 2011. Agricultural Mechanization A Textbook for students. Ministry of Education, Baghdad, Iraq, pp107.
18. Abdul-Munaim, Ali Mazin, A.S.Al-najjr., N.S.Kadum., H.M.Al-Shkry, and A. Abdulsda. 2012. Agricultural Tractors A Textbook for students. Ministry of Education, Baghdad. Iraq. Under publication.
19. Abdul-Munaim, Ali Mazin. 2013. Which Plow is More Suitable for Tillage Farming in Iraq? *AMA, Agricultural Mechanization in Asia, Africa and Latin America* 44(4):10.
20. Abdul-Munaim, Ali Mazin and Lutfi Hussain Md.Ali. 2014. Determination of the Suitability Period of S-3 Diesel Oil When Used in Tractor Engines. *AMA, Agricultural Mechanization in Asia, Africa and Latin America* 45(1):20-22.
21. Abdul-Munaim, A. M., Reuter, M., Koch, M., & Watson, D. G. (2015). Distinguishing Gasoline Engine Oils of Different Viscosities Using Terahertz Time-Domain Spectroscopy. *Journal of Infrared, Millimeter, and Terahertz Waves*, 1-10.
22. Abdul-Munaim, A. M., Reuter, M., Abdulmunem, O. M., Balzer, J. C., Koch, M., & Watson, D. G. (2016). Using Terahertz Time-Domain Spectroscopy to Discriminate among Water Contamination Levels in Diesel Engine Oil. *Transaction of the ASABE*, 59(3), 795-801.
23. Abdul-Munaim, Ali Mazin., Aller, Mario Méndez., Preu, Sascha and Watson, Dennis G. (2018). Discriminating Gasoline Fuel Contamination in Engine Oil by Terahertz Time-Domain Spectroscopy. *Tribology International*. 119, 123-130.
24. Holland, T., Abdul-Munaim, A. M., Watson, D. G., & Sivakumar, P. (2018). Importance of Emulsification in Calibrating Infrared Spectroscopes for Analyzing Water Contamination in Used or In-Service Engine Oil. *Lubricants*, 6(2), 35.
25. Méndez Aller, M., Abdul-Munaim, A., Watson, D., & Preu, S. (2018). Error Sources and Distinctness of Materials Parameters Obtained by THz-Time Domain Spectroscopy Using an Example of Oxidized Engine Oil. *Sensors*, 18(7), 2087.
26. Abdul-Munaim, Ali Mazin, Jan Ornik, Martin Koch, and Dennis G. Watson. (2019). "Terahertz Time Domain Spectroscopy to Detect Oxidation Levels of Diesel Engine Oil." *Lubricants* 7, no. 2.
27. Holland, Torrey, Ali Mazin Abdul-Munaim, Dennis G. Watson, and Poopalasingam Sivakumar. (2019). "Influence of Sample Mixing Techniques on Engine Oil Contamination Analysis by Infrared Spectroscopy." *Lubricants* 7, no. 1: 4.
28. Abdul-Munaim, Ali Mazin, Torrey Holland, Poopalasingam Sivakumar, and Dennis G. Watson. (2019) "Absorption Wavebands for Discriminating Oxidation Time of Engine Oil as Detected by FT-IR Spectroscopy." *Lubricants* 7, no. 3: 24.