

NASIR SALIM HASSEN

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RESEARCH EXPERIENCE

PhD Research, College of Mechanical Engineering, University Technology Malaysia (UTM) (2011-2015)

- Agricultural Machinery Engineering

RELEVANT RESEARCH SKILLS

- Agricultural Mechanization and Automation
- Agricultural Machinery Design
- Ground and Aerial Spraying Application Systems

EDUCATION

- Bachelor of Science in Agricultural Mechanization, Baghdad University, Iraq.
- Master of Science in Agricultural Mechanization, Baghdad University, Iraq.
- Doctor of Philosophy in Mechanical Engineering, University Technology Malaysia (UTM).

TEACHING EXPERIENCE

- Level 1 course, Engineering Drawing
- Level 2 course, Agricultural Machinery
- Level 3 course, Field Crop Mechanization
- Level 1, 2, 3 and 4 courses, English Language

PUBLICATIONS

1. Hassen, N. S., & Sidik, N. A. C. (2021). Nozzle Type and Driving Speed Effects on Spray Density of Aerial Application According to the Wind Tunnel Measurements. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 84(1), 101-110.
2. Hassen, N. S., & Sidik, N. A. C. (2019). Laboratory investigation of nozzle type, size and pressure effects on spray distribution. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 61(1), 140-146.
3. Hassen, N.S., Sidik, N.A.C. Effect of nozzle angle, size and pressure on spray distribution based on laboratory conditions. *International Journal of Engineering and Advanced Technology*. 2019, 9(1), pp. 2522–2525.

4. Hassen, N.S., Almubarak, N.F.A. Development, fabrication and evaluation of semi-automatic field crop transplanter. *International Journal of Innovative Technology and Exploring Engineering*. 2019, 8(12), pp. 4595–4598.
5. Hassen, N. S., & Sidik, N. A. C. (2018). Wind tunnel measurements on the effect of sprayer speed on the droplet size spectra. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 43(1), 104-111.
6. Hassen, N.S. and Sidik N. A.C. Assessment of Atomization Parameters for Flat Fan Nozzles Based on Wind Tunnel Measurements. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*. 2017. (38)1: 1-9.
7. Hassen, N. S., Sidik N. A. C. and Sheriff J. M. Advanced Techniques for Reducing Spray Losses in Agrochemical Application System. *Life Science Journal*. 2014. (11)3:56-66.
8. Hassen, N. S., Sidik N. A. C. and Sheriff J. M. Effect of Nozzle Angles on Spray Losses Reduction. *Applied Mechanics and Materials*. 2014.564:216-221.
9. Hassen, N. S., Sidik N. A. C. and Sheriff J. M. Effect of Nozzle Type on Spray Drift in Banding Application. *Applied Mechanics and Materials*. 2014.465-466: 520-525.
10. Hassen, N. S., Sidik N. A. C. and Hassan F. Evaluation of Spatial Application Accuracy of Sensing-Spraying System for Variable Rate Application of Oil Palm Trees. *Advances in Environmental Biology*. 2014.8(10): 579-584.
11. Hassen, N. S., Sheriff J. M. and Sidik N. A. C. Effect of Cross Wind, Nozzle Angle and Height on the Performance of Broadcasting Spraying System. *Advances in Environmental Biology*. 2014. 8(3): 648-653.
12. Sidik, N. A. C., Hassen N.S. and Sheriff J. M. Nozzle Type, Height and Cross Wind Effects on Spray Drift. *Proceedings of the International Forestry Graduate Students' Conference*, 2-4 July 2013, Universiti Putra Malaysia (UPM). 2013.135-139
13. Hassen, N.S., Sidik N. A.C. and Sheriff J.M. Effect of Nozzle Type, Angle and Pressure on Spray Volumetric Distribution of Broadcasting and Banding Application. *Journal of Mechanical Engineering Research*. 2013.5(4): 76-81.