

CURRICULUM VITA

• PERSONAL DETAILS

Hamzeh Taha Salman Alkasasbeh

Date of Birth: 25-1-1982

Place of Birth: Al-Karak

Marital status: Married

Nationality: Jordanian

Scopus ID: 56205135500

Google Scholar Citations:

<https://scholar.google.com.my/citations?user=sETY9Z8AAAAJ&hl=en>

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Amman, Jordan

Current address

Amman-Jordan



• ACADEMIC QUALIFICATIONS

Ph.D. Mathematics, Specialization, Optimization and Mathematical Modeling in Fluid Dynamic, February 2013 to April 2016, University Malaysia Pahang, (UMP) Malaysia

PhD Thesis Titled: *Numerical Solutions for Convective Boundary Layer Flow over a Solid Sphere of Newtonian and Non-Newtonian Fluids.*

M. Sc. Mathematics, February 2005 to August 2007, Mu'tah University, Al-Karak, Jordan. (Excellent)

Master Thesis Titled: *On the Cycles of Graphs*

B.Sc. Mathematics, September 2001 to February 2005, Mu'tah University, Al-Karak, Jordan (Good)

High secondary school, Scientific Stream, July 2001, Ayy secondary School, Jordan. 77.1%

• PROFESSIONAL EXPERIENCE

Associate Professor , September 2021 – Present, Ajloun National University, Ajloun, Jordan

Dean of the Faculty of Information Technology and Science, October 2019- Present, Ajloun National University, Ajloun, Jordan

Head of Mathematics Department, October 2018- Present, Ajloun National University, Ajloun, Jordan

Assistant Professor , September 2017 – April 2021, Ajloun National University, Ajloun, Jordan

- Teaching the following courses:

- Calculus I & II,
- Abstract Algebra I & II,
- Ordinary Differential Equations I & II
- Numerical Analysis I & II
- Complex Analysis,
- Real Analysis I & II
- Mathematics History
- Mathematical finance

-Member of several committees in the Mathematics Department.

Teaching Assistant, February 2013 – February 2015, University Malaysia Pahang, Malaysia

-Tutorial for the following courses:

- Ordinary Differential Equations
- Numerical Analysis

-Member of Applied & Industrial Mathematics Research Group, Faculty of Industrial Science & Technology, University Malaysia Pahang 26300 Kuantan, Pahang.

Lecturer, January 2011- January 2013, Northern Borders University, Saudi Arabia

Duties and Responsibilities:

-Teaching the following courses:

- Calculus I & II,
- Statistics,
- Linear Algebra,
- Abstract Algebra I & II,
- Applied Mathematics for Computer Science,
- Discrete Mathematics,

- Number Theory,
- Complex Analysis,
- Real Analysis
- Vector Analysis.

-Member of several committees in the Mathematics Department.

Part time Lecturer, October 2010- January 2011, Al-Balqa Applied University, Aqaba , Jordan

Duties and Responsibilities:

-Teaching the following courses:

- Calculus I,
- Statistics I,
- Discrete Mathematics.

-Member of several committees in the Computer Science Department.

Lecturer, February 2009 – July 2010, King Saud University, Saudi Arabia

Duties and Responsibilities:

-Teaching the following courses

- Calculus I & II

-Member of several committees in Department of Mathematics Skills the Preparatory Year.

8. Teacher, February 2005- February 2009 , Ministry of Education, Alkarak, Jordan

• International Published and Accepted Papers

A Journal

After Ph.D.

1. Alwawi F. A., **Alkasasbeh, H. T.**, Rashad A M., Idris. R (2021) Magneto-Combined Convection Flow of Casson Nanofluid about Circular Cylinder *Accepted in Propulsion and Power Research* (Scopus Indexed **Q1**).
2. Feras M. Al Faqih1, **Alkasasbeh, H.T.**, Mohammed Z. Swalmeh, Sulaiman M. Ibrahim, Hebah G. Bani Saeed, E. Al Sarairah, Mathematical modeling of the MHD Flow of Casson Nanofluid in the Presence of Oxides Nanoparticles Based C₂H₆O₂/H₂O Under Constant Heat Flux Boundary Condition, *International Review of Mechanical Engineering (IREME)* 15(3):1-11(Scopus Indexed **Q3**).
3. Mohamed, M. K. A., Hussanan, A., **Alkasasbeh, H. T.**, Widodo, B., & Salleh, M. Z. (2021). Boundary layer flow on permeable flat surface in Ag-Al₂O₃/water hybrid nanofluid with viscous dissipation. *Data Analytics and Applied Mathematics (DAAM)*, 2(1), 11-19.
4. Mohamed, M. K. A., Yasin, S. H. M., Salleh, M. Z., & **Alkasasbeh, H. T.** (2021). MHD Stagnation Point Flow and Heat Transfer Over a Stretching Sheet in a Blood-Based

- Casson Ferrofluid with Newtonian Heating. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 82(1), 1-11. (Scopus Indexed **Q3**).
5. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2020) A numerical approach for heat transfer flow of CMC-water based Casson nanofluid from a solid sphere generated by mixed convection under Lorentz force influence. *Mathematics*, 8(7), 1094. (ISI and Scopus Indexed **Q1**).
 6. Hamarsheh A. S, Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2020). Heat Transfer Improvement in MHD Natural Convection Flow of Graphite Oxide/Carbon Nanotubes-Methanol Based Casson Nanofluids Past a Horizontal Circular Cylinder Processes, 8(11) 1-18, (ISI and Scopus Indexed **Q2**).
 7. Muhammad K.A. M, Ong, H. R, **Alkawasbeh, H. T.**, Salleh. M. Z., (2020). Heat Transfer of Ag-Al₂O₃ /Water Hybrid Nanofluid on a Stagnation Point Flow over a Stretching Sheet with Newtonian Heating *Journal of Physics Conference Series 1529:042085 DOI: 10.1088/1742-6596/1529/4/042085* (Scopus Indexed **Q2**).
 8. **Alkawasbeh, H. T.**, Swalmeh, M. Z, Bani Saeed, H, Al Faqih, F, Talafha, A (2020) Investigation on CNTs-water and human blood based Casson nanofluid flow over a stretching sheet under impact of magnetic field *Frontiers in Heat and Mass Transfer 14(15) 1-7* (Scopus Indexed **Q2**)
 9. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2020) Heat transfer analysis of ethylene glycol-based Casson nanofluid around a horizontal circular cylinder with MHD effect *Journal of Mechanical Engineering Science 0954406220908624* (ISI and Scopus Indexed **Q2**).
 10. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2020) MHD Natural Convection of Sodium alginate Casson Nanofluid over a Solid Sphere *16 (2020): 102818.Results in Physics* (ISI and Scopus Indexed **Q1**).
 11. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019). Numerical Study of Mixed Convection Heat Transfer in Methanol based Micropolar Nanofluid about a Horizontal Circular Cylinder *Journal of Physics Conference Series 1366:012003 DOI: 10.1088/1742-6596/1366/1/012003* (Scopus Indexed **Q2**).
 12. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2019) Natural convection flow of Sodium Alginate based Casson nanofluid about a solid sphere in the presence of a magnetic field with constant surface heat flux *Journal of Physics Conference Series 1366:012005 DOI: 10.1088/1742-6596/1366/1/012005* (Scopus Indexed **Q2**).
 13. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019). Microstructure and Inertial Effects on Natural Convection Flow of Water and Kerosene Oil Based Nanofluids about a Solid Sphere *International Journal of Ambient Energy.1-31 DOI:10.1080/01430750.2019.1665582*(Scopus Indexed **Q1**).
 14. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019) Influence of Microstructure and Inertial on Micropolar Nanofluid Free Convection Flow over a Heated Horizontal Circular Cylinder *Theoretical and Applied Mechanics (00),1-8: https://doi.org/10.2298/TAM181120008S* (Scopus Indexed **Q2**).
 15. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019) Numerical Investigation of Heat Transfer Enhancement with Ag-GO Water and Kerosene Oil Based Micropolar Nanofluid over a Solid Sphere *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 59(2):269-282* (Scopus Indexed **Q3**)
 16. **Alkawasbeh, H. T.**, Swalmeh, M. Z., Hussanan, A., Mamat, M. (2019) Numerical Solution of Heat Transfer Flow in Micropolar Nanofluids with Oxide Nanoparticles in Water and Kerosene Oil about a Horizontal Circular Cylinder *IAENG International Journal*

of Applied Mathematics **49**(3) 326-333 (Scopus Indexed **Q3**)

17. Hani A Qadan, **Alkawasbeh, H. T.**, Nusayba Y Mohammad Z Alsawalmeh, Shaima I Alkhalafat (2019) A Theoretical Study of Steady MHD mixed convection heat transfer flow for a horizontal circular cylinder embedded in a micropolar Casson fluid with thermal radiation *Journal of Applied and Computational Mechanics* **50**(1)165-173 10.22059/jcamech.2019.278376.372 (ISI Indexed **Q2**)
18. Husein A. Alzgoool, **Alkawasbeh, H. T.** Sana Abu-ghurra, Mohammed Z. Swalmeh (2019) Numerical Solution of Heat Transfer in MHD Mixed Convection Flow Micropolar Casson Fluid about Solid Sphere with Radiation Effect *International Journal of Engineering Research and Technology* **12**(4) 519-529(Scopus Indexed **Q3**).
19. **Alkawasbeh, H. T.**, Sana Abu-ghurra, Husein A. Alzgoool, (2019) Similarity solution of Heat Transfer for the Upper-Convected Maxwell Casson Fluid over a Stretching/Shrinking Sheet with Thermal Radiation, *JP Journal of Heat and Mass Transfer* **17**(1) 1-17(Scopus Indexed **Q4**).
20. **Alkawasbeh, H. T.**, Swalmeh, M. Z., Hussanan, A., Mamat, M. (2019) Effects of mixed convection on methanol and kerosene oil based micropolar nanofluid containing oxide nanoparticles CFD Letters **11** (1) 70-83. (Scopus Indexed **Q3**)
21. **Alkawasbeh, H. T.**, (2018) Numerical Solution of MHD Free Convective Flow of Micropolar Casson Fluid about a Solid Sphere, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences.***50**(1) 55-66 (Scopus Indexed **Q3**)
22. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2018). Heat transfer flow of Cu-water and Al₂O₃-water micropolar nanofluids about a solid sphere in the presence of natural convection using keller-box method. *Results in Physics* **9**(2018) 717-728 (ISI and Scopus Indexed **Q1**).
23. Hussanan, A., Salleh. M. Z., **Alkawasbeh, H. T.**, Khan, I., (2018). MHD flow and heat transfer in a Casson fluid over a nonlinearly stretching sheet with Newtonian Heating. *Heat Transfer Research Journal* **49**(12):1185–1198 (2018) (ISI and Scopus Indexed **Q2**)
24. **Alkawasbeh, H. T.**, (2018). Numerical Solution on Heat Transfer Magnetohydrodynamic Flow of Micropolar Casson Fluid over a Horizontal Circular Cylinder with Thermal Radiation, *Frontiers in Heat and Mass Transfer* **10**(32) 1-7 (Scopus Indexed **Q2**)

Before Ph.D.

25. **Alkawasbeh, H. T.**, Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with convective boundary conditions. *Walailak Journal of Science and Technology.* **12**(9): 849-861 (Scopus Indexed **Q3**)
26. **Alkawasbeh, H. T.**, Sarif, N. M., Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with Newtonian Heating in a micropolar fluid. *AIP Conference Proceedings* (1643): 662-669. (ISI Indexed)
27. **Alkawasbeh, H. T.**, Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with convective boundary conditions in a micropolar fluid. *Malaysian Journal*

of Mathematical Sciences **9**(3): 463-480 (Scopus Indexed **Q4**)

- 28. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Numerical solutions of Mixed convection boundary layer flow about a solid sphere in a micropolar fluid with convective boundary conditions. *World Applied Sciences Journal* **33**(9): 1472-1481. (Scopus Indexed **Q4**)
- 29. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M. and Nazar, R. (2014). Numerical solutions of free convection boundary layer flow on a solid sphere with convective boundary condition, *Journal of Physics: IOP Publishing.* **495**(1): 012025 (ISI, Scopus Indexed **Q2**)
- 30. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2014). Mixed convection boundary layer flow about a solid sphere with convective boundary conditions. *Wulfenia Journal*, **21**(3): 386-404. (ISI, Scopus Indexed)
- 31. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. 2014. Free convection boundary layer flow on a solid sphere with convective boundary conditions in a micropolar fluid. *World Applied Sciences Journal.* **32**(9): 1942-1951.(Scopus Indexed **Q4**)
- 32. Alkawasbeh, H. T.,** Salleh. M. Z., Nazar, and Pop, I. (2014). Numerical solutions of effect of radiation and magnetohydrodynamic free convection boundary layer flow a solid sphere with Newtonian heating. *Applied Mathematical Sciences Journal.* **8**(140): 6989-7000.(Scopus Indexed)
- 33. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M. and Nazar, R. (2014). Effect of radiation on magnetohydrodynamic free convection boundary layer flow near the lower stagnation point of a solid sphere with Newtonian heating. *Journal of Engineering and Technology.* **5**(1): 77-88.(Scopus Indexed)
- 34. Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, R. and Pop, I. (2013). Free convection boundary layer flow near the stagnation point of a solid sphere with convective boundary conditions in a micropolar fluid. *AIP Conference Proceedings,* (1602): 76-82..(ISI Indexed).

B Conferences

- 35.** The Malaysian Technical Universities Conference on Engineering and Technology (MUCET, 2013) was hold between 3 -4 December 2013 in Kuantan, Pahang.
- 36.** The 3rd International Conference on Mathematical Sciences (ICMS3, 2013)
- 37.** The 2014 International Conference on Science and Engineering in Mathematics, Chemistry and Physics, (ScieTech, 2014) Jakarta-Indonesia, 13-14 January 2014.
- 38.** The 2nd ISM International Statistical Conference 2014 (ISM-II): Empowering the Applications of Statistical and Mathematical Sciences
- 39. Alkawasbeh, H. T.,** Sarif, N. M., Salleh. M. Z., Tahar R. M. 2015. Mixed convection boundary layer flow of nanofluid near the lower stagnation point about a solid sphere with convective boundary conditions *Proceeding of the 4th ICoGOIA 2015 International Conference 10 -11 August 2015 in Kuantan, Pahang*
- 40.** The International Conference on Fractional Differentiation and its Applications was hold between 16 -18 July 2018 in Amman, Jordan.

41. Hamzeh T. Alkawasbeh, Mohammed Z. Swalmeh. 2019 Numerical Study of Stagnation Point Flow over a Sphere with GO/ Water and Kerosene Oil Based Micropolar Nanofluid *IACMC2019 (2019): 22. Proceeding of International Arab Conference on Mathematics and Computations will be hold between 24 -26 April 2019 in Zarqa, Jordan.*

Reviewer in International Journals

- 1) Journal of Porous Media (ISI and Scopus Index IF 1.151)
- 2) Computers & Fluids. (ISI and Scopus Index IF 2.610)
- 3) Special Topics and Reviews in Porous Media-An International Journal (Scopus Index)
- 4) Mathematical Methods in the Applied Sciences (ISI and Scopus Index IF 2.860)
- 5) Propulsion and Power Research (ISI and Scopus Index IF 2.2)
- 6) Nonlinear Engineering. Modeling and Application (ISI and Scopus Index IF 0.72)

Editors of International Journals

1. *SCIREA Journal of Mathematics*
(<http://www.scirea.org/journal/Mathematics>).
2. International Journal of Applied Mathematics and Theoretical Physics
<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=322>
3. Journal of Applied Numerical in Engineering (JANE)
<https://journal.scientiaca.org/index.php/jane/about/editorialTeam>
- 4- Journal Of Advanced Research In Numerical Heat Transfer
http://www.akademiabaru.com/arnht_editorialboard.html

Master – Co-Supervisor

1) Master student name: Hebah Ghazi Mohammad Bani-Saeed,

Date of Register: 25/10/2019

Main supervisor: Prof. Feras M. Al Faqih

Department of Mathematics, Al-Hussein Bin Talal University, Jordan

Thesis Titled: Mathematical Models For Convective Heat Transfer and MHD Effects on Casson Nanofluid Flow

2) Master student name: Haneen abdulateef Salleh,

Date of Register: 20/2/2020

Main supervisor: Prof. Feras M. Al Faqih

Department of Mathematics, Al-Hussein Bin Talal University, Jordan

Thesis Titled: Numerical Solution of Convective Boundary Layer Flow in Casson Nanofluid

• RESEARCH INTEREST

- Graph Theory
- Applied Mathematics
 - Optimization and computational fluid dynamics
 - Mathematical modeling

• LANGUAGES

Language	Reading	Listening	Speaking	Writing
Arabic	Native	Native	Native	Native
English TOEFL, ETS 99/120	Very good	Very good	Very good	Very good

• COMPUTER SKILLS

- The International Computer Driving License (ICDL).
- Mathematic Program (Matlab, Maple)
- Mathematical Typing (Latex)

• AWARDS

- Doctoral Scholarship Scheme(DSS) University Malaysia Pahang, for 36 months
- First class honors in Master Degree, 2007-2008.

• REFERENCES

- 1) Prof. Dr. Shaher Momani , Department of Mathematics, Jordan University, Amman, Jordan P.O. Box: 7, Mobile: +962-799774979, E-mail : shahermm@yahoo.com,
- 2) Prof Dr. Mohd Zuki Ben Salleh, Futures and Trends Research Group, Faculty of Industrial Science and Technology Universiti Malaysia Pahang, 26300 UMP Kuantan, Pahang, Malaysia, Mobile: +60199040710, E-mail: zukikuj@yahoo.com
- 3) Prof Dr Roslinda Nazar; School of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia, Email: rmn72my@yahoo.com
- 4) Prof Dr Ioan Pop; Department of Mathematics, Babeş-Bolyai University, R-400084 Cluj-Napoca, Romania, E-mail: popm.ioan@yahoo.co.uk