

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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Permanent address

Amman, Jordan

Current address

Amman-Jordan



• ACADEMIC QUALIFICATIONS

Ph.D. Mathematics, Specialization, Optimization and Mathematical Modeling in Fluid Dynamic, February 2013 to April 2016, , (UPM) 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:

A) Undergraduate Level

- 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

B) Postgraduate Level

- Ordinary Differential Equations Theory
- Advance Numerical Analysis

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. **Alkasasbeh, H. T.**, Feras M. AlFaqih, Abedalrahman S Shoul (2022) Computational Simulation of Magneto Convection Flow of Williamson Hybrid Nanofluid with Thermal Radiation Effect **Accepted in** *CFD Letters* (**Scopus Indexed Q3**).
2. Firas Alwawi, Mohammed Swalmeh, Ibrahim Sulaiman, Nusayba Yaseen, **Alkasasbeh, H. T.**, Tarik Al Soub. (2022) Numerical investigation of heat transfer characteristics for blood/water-based hybrid nanofluids in free convection about a circular cylinder. *Journal of Mechanical Engineering and Sciences* 16(2) 8931-8942 (**Scopus Indexed Q2**).

3. **Alkasasbeh, H. T., (2022)** Mathematical Modeling Of MHD Flow Of Hybrid Micropolar Ferrofluids About A Solid Sphere *Frontiers in Heat and Mass Transfer* **18(43)** 1-9 (**Scopus Indexed Q2**)
4. **Alkasasbeh, H. T., (2022)** Numerical Solution of Heat Transfer Flow of Casson Hybrid Nanofluid over Vertical Stretching Sheet with Magnetic Field Effect. *CFD Letters* 14(3) 39-52 (**Scopus Indexed Q3**).
5. Alwawi, F. A., Hamarsheh, A. S., **Alkasasbeh, H. T., & Idris, R. (2022).** Mixed Convection Flow of Magnetized Casson Nanofluid over a Cylindrical Surface. *Coatings*, 12(3), 296. (**ISI and Scopus Indexed Q2**).
6. 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**).
7. Mohammed Z Swalmeh, Abid Hussanan, Ibrahim M Sulaiman, **Alkasasbeh, H.T.,** Mustafa Mamat. Boundary Layer Analysis of Micropolar Nanofluid with GO Nanoparticles in Water, Methanol and Kerosene over a Horizontal Circular Cylinder 63(3): 907-915 *Petroleum and Coal* (**Scopus Indexed Q4**).
8. 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.
9. 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**).
10. Alwawi F. A., **Alkasasbeh, 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**).
11. Hamarsheh A. S, Alwawi F. A., **Alkasasbeh, 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**).
12. Muhammad K.A. M, Ong, H. R, **Alkasasbeh, 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**).
13. **Alkasasbeh, 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**)
14. Alwawi F. A., **Alkasasbeh, 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**).
15. Alwawi F. A., **Alkasasbeh, 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**).
16. Swalmeh, M. Z., **Alkasasbeh, 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**).
17. Alwawi F. A., **Alkasasbeh, 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**).
 18. Swalmeh, M. Z., **Alkasasbeh, 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**).
 19. Swalmeh, M. Z., **Alkasasbeh, 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**).
 20. Swalmeh, M. Z., **Alkasasbeh, 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**)
 21. **Alkasasbeh, 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**)
 22. Hani A Qadan, **Alkasasbeh, 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**)
 23. Husein A. Alzgool, **Alkasasbeh, 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**).
 24. **Alkasasbeh, H. T.**, Sana Abu-ghurra, Husein A. Alzgool, (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**).
 25. **Alkasasbeh, 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**)
 26. **Alkasasbeh, 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**)
 27. Swalmeh, M. Z., **Alkasasbeh, 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).

28. Hussanan, A., Salleh. M. Z., **Alkasasbeh, 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**)
29. **Alkasasbeh, 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.

30. **Alkasasbeh, 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**)
31. **Alkasasbeh, 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**)
32. **Alkasasbeh, 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**)
33. **Alkasasbeh, 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**)
34. **Alkasasbeh, 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**)
35. **Alkasasbeh, 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**)
36. **Alkasasbeh, 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**)
37. **Alkasasbeh, 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**)
38. **Alkasasbeh, 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**)

39. **Alkasasbeh, 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

40. The Malaysian Technical Universities Conference on Engineering and Technology (MUCET, 2013) was hold between 3 -4 December 2013 in Kuantan, Pahang.
41. The 3rd International Conference on Mathematical Sciences (ICMS3, 2013)
42. The 2014 International Conference on Science and Engineering in Mathematics, Chemistry and Physics, (ScieTech, 2014) Jakarta-Indonesia, 13-14 January 2014.
43. The 2nd ISM International Statistical Conference 2014 (ISM-II): Empowering the Applications of Statistical and Mathematical Sciences
44. **Alkasasbeh, 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*
45. The International Conference on Fractional Differentiation and its Applications was hold between 16 -18 July 2018 in Amman, Jordan.
46. **Hamzeh T. Alkasasbeh,** 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

2) Master student name: Abedalrahman S Shoul,

Date of Register: 20/9/2021

Main supervisor: Prof. Feras M. Al Faqih

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

Thesis Titled: Mathematical Modeling Of Williamson Hybrid Nanofluid Over A Stretching Sheet

• 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 : shahermmm@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