



Ahmad M. A. Abu Alrub C.V.



CURRICULUM VITAE

Ahmad M. A. Abu Alrub

June 2021

You



PERSONAL

<i>Place of Birth</i>	Jordan
<i>Date of Birth</i>	November 13, 1968
<i>Marital Status</i>	Married
<i>Nationality</i>	Jordanian
<i>Work Address</i>	Department of Physics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan. Phone: +962-3-2179000 Ext.: 6309 , E-mail: AhmadAlrub@ahu.edu.jo
<i>Academic Rank (date)</i>	Associate Professor (2016)
<i>Permanent Address</i>	11118 Amman, Jordan. Cell Phone:+962-0796500368, E-mail: abuqais98@gmail.com

ACADEMIC QUALIFICATIONS

2005 - 2009	Ph. D. Theoretical condensed matter, University Science Malaysia, Malaysia.
1992 - 1995	M. Sc. Nuclear physics, The University of Jordan, Amman, Jordan
1987 - 1991	B. Sc. Physics, The University of Jordan, Amman, Jordan

SPECIALTY

<i>General Specialization:</i>	Theoretical condensed matter
<i>Specialization :</i>	Landau theory of ferroelectric and multiferroics



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CAREER HISTORY

Sep 2020 - present	Associate Prof. Physics dep. Alhussein bin Talal University
Sep 2018-Sep 2020	Associate Prof /physics department/ Jouf university\Saudi Arabia
Feb 2016 – Sep .2018	Associate Prof. Physics dep. Alhussein bin Talal University
Sep 2009 – Feb.2016	Assistant Professor , Department of Physics, Faculty of Science, Al-Hussein Bin Talal University, Ma'an, Jordan
Sep 2008-Sep 2009	Physics Tutor – Malaysia University Science Malaysia (USM)
Sep 1996-Sep 2005	Physics Teacher -The Ministry of Education–Kingdom of Saudi Arabia
Sep 1992- Sep 1996	Physics Teacher. The Ministry of Education – Jordan
Sep 1991-Sep 1993	Teaching Assistance in Lab University of Jordan – Jordan

ADMINISTRATIVE EXPERIENCE

Positions

Des 2020- Present	Deputy Dean of the College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan
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Sep 2016 - Sep 2018

Deputy Dean of the Deanship of Scientific Research and Postgraduate Studies Al-Hussein Bin Talal University, Ma'an, Jordan

Sep 2012 - Sep 2013

Chairman of Physics Department, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan

Committees

Different committee in physics department and science college

HONORS, SCHOLARSHIPS, AWARDS AND GRANTS_____

1. SAGA grant, Academy of Sciences Malaysia (Grant No: 304/PFIZIK/653018/A118) from 1-9-2006 to 31-12-2007.
2. University Science Malaysia Fellowship from 1-1-2008 to 31-12-2008

RESEARCH INTEREST_____

- Ferroelectrics
- Multiferroics

PUBLICATIONS_____

Peer-reviewed journal articles

1- Emad A. M. Farrag **Ahmad Musleh Alrub**, Adeeb G.Talafha Rateb M. K. Al-Rjoob . A Study on the mechanism of switching dynamic of ferroelectric bilayers by using Landau theory accepted in (2021) **Ferroelectrics Jornal**



- 2- **Ahmad Musleh Alrub**, Study of switching phenomenon of weak magnetoelectric coupling in proper multiferroics using Landau theory. **J. Appl. Phys.** **126**, 154102 (2019)
Elsevier (ISI Clarivate Analyitics, Scopus Q1)
3. **Ahmad Musleh Alrub**, Study the surface effect on BiMnO₃ multiferroic thin film by using Landau theory. **Surface Science.** **681** (2019) 70–75
Elsevier (ISI Clarivate Analyitics, Scopus Q1)
4. **Ahmad Musleh Alrub**, Kok-Geng Lim Khian-Hooi Chew. Effect of magnetic and electric fields on electrical and magnetic properties of multiferroic BiMnO₃ films. **Journal of Magnetism and Magnetic Materials** . 458 (2018) 285–291.
Elsevier (ISI Clarivate Analyitics, Scopus Q1)
5. **Ahmad Musleh Alrub**, Lye-Hock Ong, K.-H. Chew, J.M. Khoshman, Ghadeer N. Al Shabaan, Rawa'ah Abu Hilaleh: “ phase transition of BiMnO₃ multiferroic thin film by Landau theory” **International Journal of Modern Physics B.** Vol. 30 (2016) (Singapore).
(ISI Clarivate Analyitics, Scopus Q3)
6. Ghadeer N. Al Shabaan, Salem F. El-Nimri, **Ahmad Musleh Alrub**” Impact and Recommendations for AHU 2MW PV Plant” **Innovative Systems Design and Engineering** www.iiste.org ISSN 2222-1727 (Paper) ISSN 2222-2871 (Online)Vol.6, No.1, 2015 (USA)
7. **Ahmad Musleh Alrub**, Lye-Hock Ong : " Switching properties of first-order ferroelectric thin films" **Eur. Phys. J. B** (2015) 88: 9 (France).
(ISI Clarivate Analyitics, Scopus Q2)
8. L.-H. Ong, **A. M. Alrub** and K.-H. Chew: "EFFECT OF STRAIN ON BARIUM TITANATE EPITAXIAL FILMS" **Key Engineering Materials** Vol. 547 (2013) pp 139-144 (Switzerland). **(Scopus Q3)**
9. **Ahmad Musleh Alrub**, Lye-Hock Ong : " Thickness Dependence of Switching time and Coercive Field in Ferroelectric thin Films", **J. Appl. Phys.** **109**, 084109 (2011) (USA).
(ISI Clarivate Analyitics, Scopus Q1)
10. **Ahmad Musleh Alrub** : " The Effect of Electric Filed on Surface and Center of Ferroelectric Film-**Jordan Journal of physics**", **3**, Issue 1, 2010, pp.31-40 Jordan.
(ISI Clarivate Analyitics)
11. **Ahmad Musleh** and Ong Lye Hock : " Temperature and Electric Field Influences on Polarization Reversal of Ferroelectric Thin Film", **AIP Conf. Proc.** -- July 7, 2009 -- Volume



1150, pp. 274-277 FRONTIERS IN PHYSICS: 3rd International Meeting;
doi:10.1063/1.3192253 (USA).

12. **Ahmad M. Musleh**, Lye-Hock Ong, and D. R. Tilley: " Effects of Extrapolation Length δ on Switching Time and Coercive Field", **Journal of Applied Physics** **105**, (2009), p. 061602 (USA). **(ISI Clarivate Analyitics, Scopus Q1)**

13. Lye-Hock Ong and **Ahmad Musleh** : "Tilley-Zeks Model in Switching Phenomena of Ferroelectric Films", **380**, Issue 1,(**2009**) pp.150-159 **Ferroelectrics** (UK). **(ISI Clarivate Analyitics, Scopus Q3)**

14. Lye-Hock Ong, **Ahmad Musleh** and Junaidah Osman:" Surface Effects on Switching in Ferroelectric Films", **Jurnal Fizik Malaysia** **29** (1&2) (2008), p. 11(Malaysia).

15. Lye-Hock Ong, **Ahmad Musleh** and Junaidah Osman:" Switching Behaviours of Ferroelectric Systems of Finite Size **Ferroelectrics**, **375**, Issue 1, (2008), pp. 115-121. ", (UK) **(ISI Clarivate Analyitics, Scopus Q3)**

16. Yoshihiro Ishibashi, Makoto Iwata and **Ahmad M.A. Musleh** : "Exact Expressions for Some Dielectric Properties of Ferroelectric Thin Films Based on the__Tilley-Zeks Model". **Journal of the Physical Society of Japan**, **76** (10), (2007), p. 104702. (Japan). **(ISI Clarivate Analyitics, Scopus Q1)**

Books and book chapters

Patents

- N.A.

CONFERENCES AND PROCEEDINGS

1. **Ahmad Musleh Alrub**. ICE 2017 19th International Conference on Electroceramics **London** United Kingdom August, 20-21, 2017.
2. **Ahmad Musleh Alrub**. Conference of ICTAM-AMF10- **Delhi** University.-7-11 November-2016. Susceptibility and pyroelectric coefficients of BiMnO₃ Multiferroics.
3. **Ahmad Musleh Alrub**, Conference on Long-Range-Interacting Many Body Systems: from Atomic to Astrophysical Scales (25/07/2016 - 29/07/2016). **Abdus Salam International Centre for Theoretical Physics, Italy**.



4. **Ahmad Musleh Alrub**, Lye-Hock Ong, K.-H. Chew Surface effect on Multiferroic BiMnO_3 "Eighth International Petra School in Physics" . Amman **Jordan** (11-14 April, 2016)
5. **Ahmad Musleh Alrub**, Lye-Hock Ong" Switching Properties of First-Order Ferroelectric Thin Films" AMF-AMEC-2014 The Joint Conference of 9th Asian Meeting on Ferroelectrics & 9th Asian Meeting on Electroceramics Oct. 26-30, 2014, **Shanghai, China**.
6. **Ahmad Musleh Alrub**, Lye-Hock Ong" Landau Theory for Investigating Switching Properties of First- Order Ferroelectric Thin Film" Oral Presentation at the 8th Asian Meeting on Electroceramics 2012 (AMEC-8), held at Shangri-La 's Rasa Sayang Resort and Spa, **Penang, Malaysia** on 1-5 July,2012.
7. **Ahmad Musleh** Lye-Hock Ong : " Phase Transitions of Strained Barium Titanate Epitaxial Films has been accepted for an Poster presentation at IMF-ISAF-2009", which will be held in Shaanxi Zhangbagou Guesthouse, in Xi'an, **China** during August 23 to 27, 2009.
8. **Ahmad Musleh** Lye-Hock Ong: "Temperature and Electric Field Influences on Polarization Reversal of Ferroelectric Thin Film",Third international Meeting Frontiers of Physics (IMFP), Awana Genting Highlands Resort, **Kuala Lumpur, Malaysia** on the 12-16th January 2009.
9. **Ahmad Musleh**, Lye-Hock Ong, and Junaidah Osman: " *Effects of Extrapolation Length delta on Switching Time and Coercive Field*", Proceedings of International Symposium on Integrated (ISIF 2008), Biopolis, **Singapore**.
10. **Ahmad Musleh**, Lye-Hock Ong, and Junaidah Osman: " *Effects of Compressive Stress on Ferroelectric Epitaxial Films*, Proceedings of National Physics Conference PERFIK (2007), **Kuala Lumpur**.
11. Lye-Hock Ong, **Ahmad Musleh**, and Junaidah Osman:" *Polarization Profiles of Bilayered Ferroelectric Films*, Proceedings of National Physics Conference PERFIK (2006), **Kuala Lumpur**.
12. **Ahmad Musleh**, Lye-Hock Ong, and Junaidah Osman: " *Electric Effects on Polarization Profiles of Ferroelectric Thin Film*, Proceedings of National Physics Conference PERFIK (2006), **Kuala Lumpur**.

TEACHING



Courses Taught-undergraduate

- Solid state physics
- Statistical mechanics
- Physics of semiconductor
- Thermodynamics
- Classical mechanics I and II
- Electrodynamics I and II
- Mathematical physics I and II
- Quantum Mechanics I and II
- General physics II
- Wave and vibrations
- Advance lab
- Optical lab
- Mechanical, electrical and magnetic first year labs

Courses Taught-postgraduate

- Classical Mechanics for master student

Theses committee discussion

No.	Thesis Title	Degree		University	Year	Collage	Department
		M.Sc.	Ph.D.				
1	Lagrangian Formulation of Yang-Higgs Field in Fractional D Dimensional space time	yes		Muta University	20-4-2017	Science	physics
2	Caffeine Detection with Doped Boron Nitride Nanotube	yes		Al al-Bayt University	12-2020	Science	physics
3	Drug delivery/ Boron Nitride nanotube	yes		Al al-Bayt University	12-2020	Science	physics



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SKILLS

Languages

- Arabic (native)
- English (excellent)

Computer Programs

- Fortran Language
- Mathematica