



# Dr. Moayad Husein Alhaj Mahmoud Flaifel

Assistant Professor

## Personal Data

Nationality | Jordanian

Date of Birth | 21/June/1979

Department | Physics

Official IAU Email | [mhflaifel@uod.edu.sa](mailto:mhflaifel@uod.edu.sa)

## Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Others			

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2012	Ph.D. in Materials Science	National University of Malaysia (UKM), Malaysia	National University of Malaysia (UKM), Malaysia
2003	M.Sc. in Physics	Aligarh Muslim University (AMU), India	Aligarh Muslim University (AMU), India
2001	B.Sc. in Physics	Aligarh Muslim University (AMU), India	Aligarh Muslim University (AMU), India

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Preparation, physical, thermal, magnetic and microwave absorption properties of thermoplastic natural rubber composite impregnated with NiZn ferrite nanoparticles
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## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant Professor	Department of Physics, College of science, IAU Saudi Arabia	Sep/2016-till present
Assistant Professor	Department of Materials science, Faculty science & Technology, National University of Malaysia (UKM)	Malaysia Jul/2012-Jun/2015
Lecturer	Department of Mechanical & Automotive Engineering, Infrastructure University of Kuala Lumpur (IUKL)	Malaysia Jun/2010-Jul/2011
Research Assistant	Department of Materials science, Faculty science & Technology, National University of Malaysia (UKM)	Malaysia Jul/2007-Jun/2012



## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Naif Mohammed Al-Hada, Elias Saion, Halimah Mohamed Kamari, <b>Moayad Husein Flaifel</b> , Abdul H Shaari, Zainal Abidin Talib	Structural, morphological and optical behaviour of PVP capped binary $(\text{ZnO})_{0.4}(\text{CdO})_{0.6}$ nanoparticles synthesised by a facile thermal route	Materials Science in Semiconductor Processing-Elsevier (2016)
2	H Baqiah, NB Ibrahim, SA Halim, <b>Moayad Husein Flaifel</b> , MH Abdi	The role of cobalt doping on magnetic and optical properties of indium oxide nanostructured thin film prepared by sol-gel method	Materials Research Bulletin-Elsevier (2015)
3	Naif Mohammed Al-Hada, Elias B Saion, Abdul H Shaari, Mazliana A Kamarudeen, <b>Moayad Husein Flaifel</b> , Salahudeen A Gene	Synthesis, Structural and Morphological Properties of Cadmium Oxide Nanoparticles Prepared by Thermal Treatment Method	Advanced Materials Research-Trans Tech Publications (2015)
4	Naif Mohammed Al-Hada, Elias B Saion, Abdul Halim Shaari, Mazliana A Kamarudin, <b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Adamu Gene	A facile thermal-treatment route to synthesize the semiconductor CdO nanoparticles and effect of calcination	Materials Science in Semiconductor Processing-Elsevier (2014)
5	Naif Mohammed Al-Hada, Elias B Saion, Abdul Halim Shaari, Mazliana A Kamarudin, <b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Salahudeen A Gene	A facile thermal-treatment route to synthesize ZnO nanosheets and effect of calcination temperature	PloS one- Public Library of Science (2014)
6	L.J. YU, S. H. Ahmad, Sivanesan Appadu, I. Kong, Mou'ad A Tarawneh and <b>Moayad Husein Flaifel</b>	Comparison of magnetic and microwave absorbing properties between multiwalled carbon nanotubes nanocomposite, nickel zinc ferrite nanocomposite and hybrid nanocomposite	World Journal of Engineering-Emerald Group Publishing Limited (2014)
7	Abdullah Ahmed Ali Ahmed, Zainal Abidin Talib, Mohd Zobir Hussein, <b>Moayad Husein Flaifel</b> , Naif Mohammed Al-Hada	Influence of Zn/Fe Molar Ratio on Optical and Magnetic Properties of ZnO and $\text{ZnFe}_2\text{O}_4$ Nanocrystal as Calcined Products of Layered Double Hydroxides	Journal of Spectroscopy- Hindawi Publishing Corporation (2014)
8	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustaffa Hj Abdullah, Rozaidi Rasid, Abdul Halim Shaari, Ayman A El-Saleh, Sivanesan Appadu	Preparation, thermal, magnetic and microwave absorption properties of thermoplastic natural rubber matrix	Composites Science and Technology-Elsevier (2014)



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
		impregnated with NiZn ferrite nanoparticles	
9	Sivanesan Appadu, Sahrim Hj Ahmad, Chantara Thevy Ratnam, Meor Yahaya Razali, <b>Moayad Husein Flaifel</b> , Lih Jiun Yu	Magnetic properties of irradiated nickel ferrite thermoplastic natural rubber nanocomposite	Advanced Materials Research-Trans Tech Publications (2014)
10	Dalila Shahdan, Sahrim Hj Ahmad, <b>Moayad Husein Flaifel</b>	Effect of ultrasonic treatment on tensile properties of PLA/LNR/NiZn ferrite nanocomposite	AIP Conference Proceedings (2013)
11	Bandar Ali Al-Asbahi, Mohammad Hafizuddin Haji Jumali, Chi Chin Yap, <b>Moayad Husein Flaifel</b> , Muhamad Mat Salleh	Photophysical properties and energy transfer mechanism of PFO/Fluorol 7GA hybrid thin films	Journal of Luminescence-Elsevier (2013)
12	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Aziz Hassan, Shamsul Bahri, A Tarawneh Mou'ad, Lih-Jiun Yu	Thermal conductivity and dynamic mechanical analysis of NiZn ferrite nanoparticles filled thermoplastic natural rubber nanocomposite	Composites Part B: Engineering-Elsevier (2013)
13	Mothanna Sadiq Al-Qubaisi, Abdullah Rasedee, <b>Moayad Husein Flaifel</b> , SH Ahmad, Samer Hussein-Al-Ali, Mohd Zobir Hussein	Cytotoxicity of nickel zinc ferrite nanoparticles on cancer cells of epithelial origin	International Journal of Nanomedicine-Dove press (2013)
14	Mothanna Sadiq Al-Qubaisi, Abdullah Rasedee, <b>Moayad Husein Flaifel</b> , SH Ahmad, Samer Hussein-Al-Ali, Mohd Zobir Hussein	Induction of apoptosis in cancer cells by NiZn ferrite nanoparticles through mitochondrial cytochrome C release	International Journal of Nanomedicine-Dove press (2013)
15	Lih-Jiun Yu, Sahrim Hj Ahmad, Ing Kong, Mouad A Tarawneh, <b>Moayad Husein Flaifel</b>	Preparation and characterisation of NiZn ferrite/multiwalled nanotubes thermoplastic natural rubber composite	International Journal of Materials Engineering Innovation-Inderscience Publishers Ltd (2013)
16	Mou'ad A. Tarawneh*, Sahrim Hj. Ahmad, K.A. Ku Zarina, Ibrahim N. Hassan, Yu Lih Jiun, <b>Moayad Husein Flaifel &amp; A.R. Shamsul Bahri</b>	Properties enhancement of TPNR-MWNTs-OMMT hybrid nanocomposites by using ultrasonic treatment	Sains Malaysiana-National University of Malaysia (UKM) (2013)
17	Sahrim Hj Ahmad, Mohamed Mahmoud Nasef, Mustafa Hj Abdullah, <b>Moayad Husein Flaifel</b>	Magnetic Polymeric Nanocomposite Materials: Basic Principles Preparations And Microwave Absorption Application	Nova Science, New York (2013)
18	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustafa Hj Abdullah, Bandar Ali Al-Asbahi	NiZn ferrite filled thermoplastic natural rubber nanocomposites: effect of low temperature on their magnetic behaviour	Cryogenics- Elsevier (2012)



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
19	Lih-Jiun Yu, Sahrim Hj Ahmad, Ing Kong, Sivanesan Appadu, <b>Moayad Husein Flaifel</b>	Magnetic properties, microstructure and morphology of thermoplastic natural rubber composite reinforced with NiZn ferrite/MWNT	Sains Malaysiana-National University of Malaysia (UKM) (2012)
20	Mou'ad.A.Tarawneh, Ing Kong, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya, Lih Jiun Yu, <b>Moayad Husein Flaifel</b>	Magnetic Properties of Thermoplastic Natural Rubber Nanocomposites Reinforced with Carbon Nanotubes	World Journal of Engineering- Emerald Group Publishing Limited (2009)

#### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustaffa Hj Abdullah	Temperature Effect on Magnetic Properties of TPNR-NiZn Ferrite Nanocomposites	24th Solid State Science & Technology Conference (RCSST) (2008)
2	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustaffa Hj Abdullah	Preparation & thermal analysis of magnetic nanoparticles filled thermoplastic natural rubber nanocomposite	11 th Postgraduate Colloquium of Science & Technology
3	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustaffa Hj Abdullah	Mechanical & magnetic propertied of magnetic nanoparticles filled thermoplastic natural rubber nanocomposite	Malaysia Polymer International Conference (MPIC)
4	<b>Moayad Husein Flaifel</b> , Sahrim Hj Ahmad, Mustaffa Hj Abdullah	Preparation & microwave absorption properties of TPNR-NiZn Ferrite Nanocomposites	Asian International Conference on Materials, Minerals and Polymer (MAMIP)

#### Membership of Scientific and Professional Societies and Organizations

- Professional Graduate member at Institute of Materials, Minerals and Mining since 2015.
- Cluster team member for Science Development Network Leadership Centre (SDNLC)- Universti Teknologi Malaysia (UTM) since 2011.

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Materials science & engineering	BMT 101 & STSB 1113	
2	Thermodynamics	BTH 201	
3	General Physics 1	PHYS 101	
4	Electricity & magnetism	STSP 1123	



#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
5	Electromagnetism	PHYS 303	
6	Geometrical Optics	PHYS 203	

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Last Update

21/Dec/2016