



DR. NURHAFIZAH BINTI HASIM

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D.O.B: 10 October 1989

About Me:

I am a fast learner with positive attitude and eager to take on new experiences and challenges. I am well organized team player with comprehensive organizational skills, able to prioritize and meet deadlines. I am looking forward for new career growth as I am interested in becoming lecturer.

Gender: Female

Marital Status: Single

Nationality: Malaysia (Malay)

ACADEMIC QUALIFICATIONS

Institution	Duration	Qualification	Performance
Universiti Teknologi Malaysia (UTM)	Sept. 2014-Jan. 2018	Doctor of Philosophy (Physics) 'Effects of Embedded Silver Nanoparticles on Physical and Optical Properties of Erbium and Neodymium Codoped Lithium Niobate Tellurite Glass'	Full Research
Universiti Teknologi Malaysia (UTM)	Sept. 2011-May 2014	Master of Science (Physics) 'Thermal, Structural and Optical Properties of Lithium Niobate Tellurite Glass Doped Erbium and Neodymium'	Full Research
Universiti Teknologi Malaysia (UTM)	July 2008-Sept. 2011	Bachelor of Science (Industrial Physics) 'Physical Properties and AC Conductivity of TeO ₂ +ZnO+Li ₂ O Glass'	(2 nd Class Upper)

PUBLISHED WORK

No.	Detail
1.	Nurhafizah H. , Nurulwahidah Z.A.S., Anis Nazihah M.D., Nur Hidayah A., Effects of Ag NPs: Enhancement of Mechanical Properties of Er ³⁺ /Nd ³⁺ Codoped Lithium Niobate Tellurite Glass via Ultrasonic Measurement, <i>Journal of Physics Conference Series 1892(1)</i> (2021) 012035. (Indexed)
2.	A.A. Salim, Z.A.S. Mahraz, P. Anigrahawati, N.A.M. Jan, S.K. Ghoshal, M.R. Sahar, F.M. Noor, K.A. Samah, S.N.S. Yaacob, S.K.MD. Zain, M.S. Aziz, S.S. Alias, N.H. Ahmad, H. Nurhafizah , A.N. Harun, H. Bakhtiar, E.S. Sazali, Structural, chemical and magnetic features of gold nanoshapes integrated-Er ₂ O ₃ -doped tellurite glass system prepared by a conventional melt-quenching technique, <i>Applied Physics A 127(9)</i> (2021) 673.
3.	Nurhafizah H. , Rohani M.S., Taib N.A.M., Racah Parameter and Nephelauxetic Effect on Er ³⁺ /Nd ³⁺ Codoped Lithium Niobate Tellurite Glass, <i>Nano Hybrids and Composites 31</i> (2021) 7-16. (Non-Indexed)
4.	Faiz Hafeez Azhar, Zawati Harun, Khairul Nazri Yusof, Siti Salwa Alias, Nurhafizah Hashim , Ezza Syuhada Sazali, A study of different concentrations of bio-silver nanoparticles in polysulfone mixed matrix membranes in water separation performance, <i>Journal of Water Process Engineering 38</i> (2020) 101575. (I.F.: 3.465)
5.	Nurul Nadia Adnan, Siti Noraiza Ab Razak, Muhammad Sufi Roslan, Nur Athirah Mohd Taib, Nurhafizah Hasim , Nurmawaddah Balqish Amran, Pulsed Laser Ablation Produced Copper

	Nanoparticles (CUO NPS): The Influence of Time, <i>Solid State Phenomena</i> 307 (2020) 279-284 (I.F.: 0.30).
6	Nurulwahidah Z.A.S., Nurhafizah H. , Md Supar Rohani, Effect of Ag NPs: Ultrasonics Attenuation Properties, <i>Solid State Phenomena</i> 290 (2019) 93-98 (I.F.: 0.30).
7.	Nurhafizah Hasim , Md Supar Rohani, Er ³⁺ /Nd ³⁺ Codoped Lithium Niobate Tellurite Glass: Improvement in Energy Transfer Induced Photoluminescence, <i>Solid State Phenomena</i> 290 (2019) 16-21 (I.F.: 0.30).
8.	Nurhafizah Hasim , Md Supar Rohani, The Effect of Nd ³⁺ Composition on Judd-Ofelt Analysis of Lithium Niobate Tellurite Glasses Codoped with Er ³⁺ , <i>Solid State Phenomena</i> 268 (2017) 191-197 (I.F.: 0.30).
9.	H. Nurhafizah , M.S. Rohani, Effect of AgCl NPs: Physical, thermal, absorption and luminescence properties, <i>Journal of Molecular Structure</i> 1137 (2017) 150-159 (I.F.: 1.753).
10.	H. Nurhafizah , M.S. Rohani, S.K. Ghoshal, Self cleanliness of Er ³⁺ /Nd ³⁺ Co-doped lithium niobate tellurite glass containing silver nanoparticles, <i>Journal of Non-Crystalline Solids</i> 455 (2017) 62-69 (I.F.: 2.124).
11.	H. Nurhafizah , M.S. Rohani, S.K. Ghoshal, Er ³⁺ :Nd ³⁺ concentration dependent spectral features of lithium-niobate-tellurite amorphous media, <i>Journal of Non-Crystalline Solids</i> 443 (2016) 23-32 (I.F.: 2.124).
12.	N. Hasim , M.S. Rohani, M.R. Sahar, Structural characteristics of Er ³⁺ and Nd ³⁺ doped lithium niobate tellurite glass, <i>Materials Science Forum</i> 846 (2016) 126-130 (Indexed Scopus).
13.	N. Hasim , M.S. Rohani, M.R. Sahar, S.K. Ghoshal, Luminescence of Er ³⁺ /Nd ³⁺ co-doped lithium niobate tellurite glass, <i>Materials Science Forum</i> 846 (2016) 131-136 (Indexed Scopus).
14.	Md Supar Rohani, Nurhafizah Hasim , M.R. Sahar, <i>Role of Er³⁺/Nd³⁺ Co-Dopant on Optical Properties of Lithium Niobate Tellurite Glass</i> , UTM PRESS, Chapter 2 (2015) 31-58 [ISBN 978-983-52-1181-2] (Book Chapter).
15.	Nurhafizah Hasim , Md Supar Rohani, Md Rahim Sahar, S.K. Ghoshal, Optical absorption of Er ³⁺ /Nd ³⁺ codoped lithium niobate tellurite glass, <i>Advanced Materials Research</i> 1107 (2015) 415-419 (Non-Indexed).

A W A R D S

1 February 2021	Best Presenter Award (Parallel Session) RCOM & RCENCE 2020	Best Presenter (Parallel Session) at RCOM & RCENCE 2020.
27 April 2018	Best Student Award – Doctor of Philosophy (Physics) Dean, School of Graduate Studies, UTM	Awards given to graduate students who excel in their research as named ‘Best Student Award – Doctor of Philosophy (Physics)’ by the Dean of School of Graduate Studies, UTM.
September 2014 – August 2017	Scholarship ZAMALAH UTM	Universiti Teknologi Malaysia (UTM)
September 2011 – August 2013	Scholarship MyBrain15 (MyMaster)	Kementerian Pengajian Tinggi Malaysia (KPT)

MEMORANDUM OF UNDERSTANDING (MOU)

International (5 Years)	UTM with GJUST, India
International (3 Years)	UTM with NCU, India

INTELLECTUAL PROPERTIES

Hakcipta (COPYRIGHT) UTM - 2020 | “Module Sugar Glass Candy”

SUPERVISIONS

PhD Student (Main Supervision) Wan Hairul Anuar Bin Kamaruddin -Waiting VIVA VOCE-	Research entitled “Novel Polycrystalline Seed mediated Growth Method for Neodymium doped Lithium niobium borate Crystal with Modified Properties” (Completed)
PhD Student (Main Supervision) Nur Asilah Bte Mohamad Zulkifeli -Ongoing-	Research entitled “Influences of Gold Nanoparticles on Structural and Optical Properties of Erbium Samarium Codoped Phosphate Glass for Solid State Lasers” (On-going)
Master Student (Co-Supervision) Nur Tasnim Husna Binti Yusoff -Ongoing-	Research entitled “Electrical and Structural Properties of Plasticized Carboxymethyl Cellulose Doped Ammonium Sulphate” (On-going)
Undergraduate Student (FYP)	<ul style="list-style-type: none"> i. Nur Fatimah Binti Nasarudin (Graduated) ii. Farisya Nadira Binti Samsul Kamal (Completed) iii. Fatiah Najwa Binti Zul (Completed) iv. Norsyafiqah Binti Muhammad Arif Lim (Completed)

JOURNAL REVIEWER

1 – 31 August 2021	<i>Panel Juri Pertandingan Video Sains Peringkat Kebangsaan Tahun 2021</i>	Review the “ <i>Pertandingan Video Pendek - Colours of Science</i> ” (Youtube)
20 June 2021	International Conference on Bioengineering and Technology (IConBET2021)	Review the attached manuscript “Reimagining Innovation in Cranial Reconstruction: Virtual Planning and Cost Effectiveness of Additive Manufacturing”
15 June 2021	International Conference on Bioengineering and Technology (IConBET2021)	Review the attached manuscript “Characterization and Morphological Analysis of Organic Calcium Carbonate Filled Polypropylene”
28 February 2021	<i>Penerbit Universiti Tun Hussein Onn Malaysia Borang Penilaian Manuskrip Bab Buku (UTHM Book Chapter)</i>	Review the attached book chapter “Basic Principle of Physics and Their Applications Series 1”
16 October 2020	Nano Hybrids and Composites- special issue	Review the attached manuscript for Scientific.net entitled “Green Synthesis of Reduced Graphene Oxide by Using Reducing Sugars”
8 November 2020	Malaysian Journal of Science, Health & Technology (MJoSHT)	Review the attached manuscript for Scientific.net entitled “Optical Response Analysis at Various Pb ²⁺ Concentration by Using Fiber Optic Displacement Sensor”

11 May 2020	Malaysian Journal of Fundamental and Applied Sciences (MJFAS)	Review the attached manuscript for Scientific.net entitled “Structural Analysis and Luminescence Studies of Eu ³⁺ Doped Magnesium Borophosphate Ceramic”
13 August 2019	30 th Regional Conference of Solid State and Technology, Scientific.net	Review the attached manuscript for Scientific.net entitled “Structural and Optical Properties of Zinc Tellurite Glass System Doped with Silver Oxide”
13 August 2019	30 th Regional Conference of Solid State and Technology, Scientific.net	Review the attached manuscript for Scientific.net entitled “Effect of Preparation Method in Dye-Sensitized Solar Cells with Titanium Dioxide-Silicon Oxide as Photoanode”
13 August 2019	30 th Regional Conference of Solid State and Technology, Scientific.net	Review the attached manuscript for Scientific.net entitled “Structural and Optical Properties of Binary (ZnO) _x (TiO ₂) _{1-x} Nanoparticles Synthesized by Thermal Treatment Method”
13 August 2019	30 th Regional Conference of Solid State and Technology, Scientific.net	Review the attached manuscript for Scientific.net entitled “Electrospinning Synthesis of Bi-2223 Superconducting Nanowires”
18 December 2017	Journal of Science and Technology Special Issue (JST), UTHM [ISSN 2229-8460]	Review the attached manuscript for the Journal of Science and Technology Special Issue (JST) entitled “Synthesis and Properties of Zinc Iron Phosphate Glasses Prepared by Microwave and Conventional Processing Methods”
18 December 2017	Journal of Science and Technology Special Issue (JST), UTHM [ISSN 2229-8460]	Review the attached manuscript for the Journal of Science and Technology Special Issue (JST) entitled “The Effect of Water Bath Temperature during Electrochemical Deposition of Zinc Oxide”

CONFERENCES, SEMINAR AND WORKSHOP ATTENDED

Duration	Activities/Event	Organization
1 – 3 November 2021	8 th International Conference on Solid State Science and Technology (ICSSST 2021)	UiTM and MASS
27 – 28 October 2021	7 th International Conference on the Application of Science and Mathematics (SCIEMATHIC2021)	UTHM
18 August 2021	Webinar on Practical TEM Analysis for Publications	SCNI, AOMRG, MASS Chapter UTM, UM
16 August 2021	Online Global Classroom (OGC): Webinar on Glass for World Sustainability	AOMRG, MASS Chapter UTM, UNNES, Indonesia and UNS, Indonesia
5 August 2021	Online Global Classroom (OGC): Webinar on Advances in 4D Printing Materials and Technology	AOMRG, MASS Chapter UTM, GJUST, India and NCU, India
25 July 2021	Webinar: Tips on Constructing and Excellent Review Paper	AOMRG, MASS Chapter UTM, UKM and UMP

16 – 17 January 2021	Regional Congress on Membrane Technology 2020 (RCOM 2020) and Regional Conference Environmental Engineering (RCEnvE 2020)	AMTEC UTM and AUN/SEED-Net
21 September 2020	Online Global Classroom (OGC): Webinar on Optical Materials for 21st Century	AOMRG, UTM and GJUST, India
28 September 2020	Online Global Classroom (OGC): Webinar on Potential Anti-Viral and Anti-Bacterial Nanomaterials Applications Including Covid Pandemic	AOMRG, UTM and NCU, India
22 – 23 October 2020	International Laser Technology and Optics Symposium in Conjunction with Photonics Meeting 2020 (iLATOS2020)	Laser Center UTM
15 August 2019- 14 August 2021	AJK Seminar dan Latihan Saintifik Fakulti Sains	Fakulti Sains UTM
14 September 2019	Booth in Karnival Kimia Johor	Department of Chemistry, Faculty of Science (UTM), Jabatan Pendidikan Negeri Johor (JPN)
15 July 2019	Booth RCE Iskandar Sustainable and Low Carbon Schools Exhibition 2019	Majlis Bandaraya Iskandar Puteri (MBIP), Centre for Engineering Education Universiti Teknologi Malaysia (CEE UTM), Jabatan Pendidikan Negeri Johor (JPN)
6 - 8 November 2018	30 th Regional Conference on Solid State Science and Technology (RCSSST 2018)	Universiti Sains Islam Malaysia (USIM) and MASS
7 November 2018	MASS Micrograph Awards 2018	Universiti Teknologi Malaysia (UTM), Hi-Tech Instruments and MASS
13 - 16 November 2017	6 th International Conference on Solid State Science and Technology 2017 (ICSSST 2017)	Universiti Sains Malaysia (USM) and MASS
15 - 17 November 2016	29 th Regional Conference on Solid State Science and Technology (RCSSST 2016)	Universiti Teknologi Malaysia (UTM) and MASS
1 August – 10 October 2016	MASS Micrograph Awards 2016	Universiti Teknologi Malaysia (UTM), Hi-Tech Instruments and MASS
13-15 December 2015	5 th International Conference on Solid State Science and Technology 2015 (ICSSST 2015)	Universiti Putra Malaysia (UPM) and MASS
13 October - 5 December 2015	MASS Micrograph Awards 2015	Universiti Teknologi Malaysia (UTM), Hi-Tech Instruments and MASS

25-27 November 2014	28 th Regional Conference on Solid State Science and Technology (RCSST 2014)	Universiti Teknologi Mara Pahang and MASS
11-15 November 2013	The 3 rd Academic Conference on Natural Science for Master and PhD. Students from ASEAN Countries (CASEAN 2013)	Vietnam Academy of Science and Technology Institute of Physics
7 November 2013	Seminar on Lasing Materials	Universiti Teknologi Malaysia (UTM)
21 December 2012	Seminar on Laser and Fiber Optics Application 2012	Universiti Teknologi Malaysia (UTM)
30 May - 1 June 2012	International Conference on Nanotechnology 2012 (ICONT 2012)	Universiti Malaysia Pahang (UMP)
26 April 2012	Kursus Penulisan On Title & Abstract in Jurnal Writing 2012	Universiti Teknologi Malaysia (UTM)
27-28 December 2011	Course on Advanced Spectroscopy Techniques	Universiti Teknologi Malaysia (UTM)
3-4 December 2011	2 nd Conference FIQH in Science & Technology	Universiti Teknologi Malaysia (UTM)
2 November 2011	Seminar of Journal Paper and Thesis Writing 2011	Universiti Teknologi Malaysia (UTM)
5 April 2011	Kursus Etiket Sosial dan Protokol	Universiti Teknologi Malaysia (UTM)
February/ March 2011	Test of English Communication Skills for Graduating Students (TECS)	Universiti Teknologi Malaysia (UTM)
26-27 February 2011	How To Get Yourself Employed	Universiti Teknologi Malaysia (UTM)
2-3 October 2010	Planning and Scheduling with MS Project	School of Professional and Continuing Education (UTMSPACE)
31 July - 1 August 2010	ISO 9001:2008 Quality Management System Requirement	School of Professional and Continuing Education (UTMSPACE)

EXPERIENCES

Duration	Institution/Organization	Job Specification
September 2017-April 2019	Research Assistant Department of Physics, Faculty of Science, UTM	During working as the RA, done some research to publish paper in conference and journal impact factor which majoring in ultrasonic testing on material (glass and crystal).
April 2016 - November 2016	Secretariat 29 th Regional Conference on Solid State Science and Technology (RCSST 2016)	Manage and experience in preparing a conference for both speaker and participant, so the program going smoothly without any issues.
August 2016	Secretariat (Technical & Logistic)	Manage in preparing for the workshop for both speaker and participant, so the program going smoothly as a technical and logistic support.

	2 nd Workshop On: Advanced Spectroscopy 2016	
August 2015	Secretariat Workshop On: Advanced Spectroscopy 2015	Manage and experience in preparing for the workshop for both speaker and participant, so the program going smoothly.
June 2011- August 2011	Research Assistant Department of Physics, Faculty of Science, UTM	During working as the RA, done some research to publish paper in conference which majoring in crystal and glass materials preparation.
April 2010 - July 2010	Industrial Training Akademi Kastam Diraja Malaysia (AKMAL)	Training for about 10 weeks where I have experience the work environment. I was exposed in working in groups.
February 2010	Facilitator Program Anak Angkat Sempena Program Mahasiswa Bersama Masyarakat	Managing the facilitator in participating in the program as the facilitator is given a chance to stay and experience as foster-child.
April 2009	AJK Cenderahati Majlis Makan Malam Fizik 2009	Preparing the gifts for both V.I.P. and guest coming to the event.
January 2007- June 2007	Tuition Teacher Standard 1-6 and Form 1-3	Teach English and Mathematics subject at Tuition Center in Melaka.

COMPUTER LITERACY

- | | |
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| • Microsoft Office (Word, Power Point and Excel) | Advanced |
| • Origin | Advanced |
| • Prezi (Presentation Software) | Intermediate |

LANGUAGE PROFICIENCY

LANGUAGE	SPOKEN	WRITTEN
Bahasa Melayu	Excellent	Excellent
English	Excellent	Excellent
Perancis	Beginner	Beginner