



CHE ROS FADHLINA SENIOR LECTURER

Motivated & talented lecturer driven to inspire & challenge students to expand their knowledge & move beyond the basics of the subject matter to a deeper understanding of principles & potential of their future field.

Consistently strive to create challenging & engaging learning environment in which students become life-long scholars & learners. Exceptional track record of research success with multiple published articles.



CONTACT

17, Jalan Seri Putra 3/E
Bandar Seri Putra
Kajang, 43000
Selangor, MALAYSIA



@ Fadhlina Che Ros

SKILLS

- a. Microsoft Office
- b. Z-View
- c. EXPGUI-GSAS
(Crystallography Data Analysis Software)
- d. Origin
- e. CrystalMaker
- f. Adobe Photoshop

ABOUT ME

An enthusiastic, self-motivated, reliable, responsible & hard working person. A mature team worker & adaptable to all challenging situations.

EDUCATION

PhD in Materials Science & Engineering

Materials Science & Engineering Department, The University of Sheffield, United Kingdom
Aug 2009 - June 2013

MSc in Materials Science - Physics

Faculty of Science, Physics Department, Universiti Putra Malaysia, Malaysia
May 2003 - Sept 2006

Bachelor of Science (Hons) - Pure Physics

Faculty of Science, Physics Department, Universiti Putra Malaysia, Malaysia
May 1999 - Sept 2002

EXPERIENCE

Nasional Defence Univ. of Malaysia

- o Head of Physics Department (current)
 - To lead, manage & develop department to ensure it achieves the highest possible standards of excellence in all activities.
 - Maintain the general discipline of the students & staff of the department.
 - To oversee the smooth functioning of the department & ensuring consistent provision for academic ambience.
 - To manage & motivate all departmental staff, to enable the students to receive skilled education in the subject, in a positive, encouraging & effective working environment.



CV

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EXPERIENCE

- Chief Editor for Physics I & II modules (2017 – current).
 - Coordinating print publishing cycle & managing content areas.
 - Setting publication standards & establishing modules goals & expectations.
 - Responsible for the final product of modules produces.
- Served as Head Committee for Program Book, Abstract Book & Publication for International Conference on Solid State & Science Technology 2019.
 - Designed Program & Abstract Books.
 - Constructed a committee to review the abstracts & papers for publications in journals.
- Served as Research Coordinator for Physics Department (2018-2019)
 - Initiated Research Environment Among Departments Program (READ) in the faculty. [READ program is to expose research talents among lecturers, create research opportunity inter & intra-department & faculty & to nurture the interest in carrying out research among the lecturers]
 - Planned & executed research activities to promote literacy & public speaking among the staff/lecturers /students.
- Coordinator for Postgraduate Program of Physics Department (2018 – 2019)
 - Observed & monitored department's postgraduate students to properly measure information of progress & their performance.
 - Submitted reports on progress, performance activities and/or obstacles/difficulty faced by the students.
 - Consulted, assisted & provided key support for postgraduate students to achieve graduate-on-time policy by discussing & identifying their difficulty, challenge & strengths.
- Served as Committee for Knowledge Transfer Program & STEM of the faculty (2018 – current)
 - Collaboration program between the university & school teachers to engage in STEM activity & foster interest of science subject among the students.
 - Consulted & provided information about science & mathematics for primary school.
- Served as Principal Researcher in multiple national grants e.g. Fundamental Research Grant Scheme, Research Acculturation Collaborative Efforts Grant, Research Development Grant Scheme Grant & university internal grants.

RESEARCH GRANT

Fundamental Research Grant Scheme

RM 66, 000 – Primary Investigator
2017- 2020

A fundamental studies on microwave properties of silver-niobate ($Ag_2Nb_4O_{11}$) based materials for the use in wireless communication & antennas devices

Research Acculturation Collaborative Effort Grant

RM 50,000 – Primary Investigator
2015 - 2017

Characterisation of new microwave dielectrics of $A_{1-x}Y_xWO_4$ ($A = Zn$) ($Y = Mg, Ca$) ceramics

Internal Grant Scheme

RM 20, 000 – Primary Investigator
2015 – 2017

Synthesis & characterisation of new microwave dielectrics ceramics $A_{1-x}Y_xO_4$ ($A = Mn$) ($Y = Sr, Ba$) by solid state reaction technique

Research Development Grant Scheme

RM 80, 000 – Primary Investigator
2013 - 2015

Functionalized carbon nanotubes on adsorption of heavy metals species from aqueous solution.

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RESEARCH GRANT

Fundamental Research Grant Scheme

(2019 – 2020)

Member

Enhanced dielectric & piezoelectric property of oxides based materials (1-x) (BZTS) (x) (BCTZ) for energy harvester applications

Internal Grant Scheme (2019 – 2021)

Member

Kajian terhadap teknik baharu untuk sintesis nanozarah nikel dalam larutan kitosan menggunakan kaedah sinar gama

Research Acculturation Collaborative

Effort Grant (2015 – 2017)

Member

Characterisation of newly developed Ag/Epoxy polyurethane bio-nanocomposite

Research Acculturation Collaborative

Effort Grant (2015 – 2017)

Member

The effect of metal supported catalyst on the conversion, selectivity & yields of biofuel from microalgae

Fundamental Research Grant Scheme

(2014 – 2017)

Member

A fundamental study of cathode materials for high voltage (5 Volt) rechargeable lithium-ion batteries

EXPERIENCE

- Engaged & collaborated with many researchers in various courses, grant schemes & universities.
- Evaluated postgraduate students for their progress & performance in yearly colloquium organized by the university.
- Served as Program Coordinator for new program of Bac. of Science (Defense Physics) (2016 – 2017)
 - Monitored and supervised the activities of sub coordinate in gathering documents of course synopses, course learning outcomes & references on subjects related to the course.

SIRIM Malaysia Berhad

Project Manager

April 2007 – June 2008

- Establishing, managing and administering the industry standards committee (ISC), technical committees (TC) and working groups (WG) in the national standards system.
 - TC on Bricks and Blocks
 - TC on Ceramic and Sanitary Fittings
 - TC on Household Fittings
 - TC on Passive Fire Protection
 - TC on Welding and Allied Processes
 - WG on Sanitary Wares
 - WG on Ceramics Tiles
- To be efficient in assisting the developing/ revising procedures, ensure effective implementation of the quality system & assist in maintaining the quality procedures.
- Representing Malaysia in international standardization meetings as and when required.
- To be efficient in managed assigned projects for the development of Malaysian Standards and conducting desk research for standards projects.
- Maintained meeting schedules to ensure key milestones were met at every phase.
- Set project timelines & kept teams on task to complete milestones according to schedule.
- Developed four (4) executive presentations & reports to facilitate project evaluation & process improvement.
- Maintained project schedules by managing timelines & making proactive adjustments.



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EXPERIENCE

Univ. Putra Malaysia / Univ. Tenaga Nasional

Research Assistant / Research Assistant

May 2003 – Sept 2006

- Documented procedures & results with a high degree of accuracy & precision.
- Prepared materials for reports, presentations & submission to peer-reviewed journal publications.
- Planned, modified, & executed research techniques, procedures & tests.
- Prepared materials for reports, presentations & submission to peer-reviewed journal publications.
- Recorded data & maintained source documentation following good documentation practices.
- Conducted research & drafted memos & summaries on $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ & Sr, Ba-substitution $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics.

MEMBERSHIP IN PROFESSIONAL BODIES

Malaysia Board of Technologist
Professional Technologist (Ts.)
Materials Science Technology (MT)
2019

Scientific & Technical Research
Association (STRA)
Lifetime Membership

The Malaysian Solid State Science &
Technology Society (MASS)
Lifetime Membership

Academic Association of UPM
(NADIMASA)
Lifetime Membership
Deputy Treasurer (2016 – 2020)

X-ray Application Malaysia Society
(XAPP)
Executive Membership

PUBLICATIONS

Zulfaqar International Journal of Defense Science,
Engineering & Technology

Fadhlina Che Ros, Shahrul Izwan Ahmad, Fadhlul Wafi
Badrudin, Siti Hasnawati Jamal, Norli Abdullah and Norhana
Abdul Halim

Preliminary Studies on $\text{Ag}_2\text{Nb}_4\text{O}_{11}$ Ceramics and Investigation on Purity and Thermal Stability of Ag_2O Raw Material Used to Synthesis $\text{Ag}_2\text{Nb}_4\text{O}_{11}$ using Thermal and Phase Analysis Method, 2021, Vol 4 (2)

Malaysian Journal of Analytical Sciences

Fadhlina Che Ros and Jumiah Hassan

Synthesis and Equivalent Circuit of $\text{LaZrTa}_3\text{O}_{11}$ Prepared via Solid State Method, 2020, Volume 24 No(5), pg. 757

Journal of the Australian Ceramic Society

Fadhlina Che Ros, N. Reeves-McLaren, N. Maso and
A. R. West

Synthesis, Structure and Dielectric Properties of a New Family of Phases, $\text{ABC}_3\text{O}_{11}$; A = La, Pr, Nd, Sm, Gd; B = Zr, Hf; C = Nb, Ta 2018, 54, pg. 1 [DOI: 10.1007/s41779-018-0236-x]

Journal of Computational & Theoretical Nanoscience

Fadhlina Che Ros

Structure, Electrical and Microwave Properties of $\text{CaTa}_4\text{O}_{11}$ and Solid Solutions Ceramics, 2018, 24(11), pg. 8908

[DOI: 10.1166/asl.2018.12373]

Journal of Physics

Eza Nuraiena Sota, Fadhlina Che Ros and Jumiah Hassan

Synthesis and Characterisation of AWO_4 (A=Mg, Zn) Tungstate Ceramics, 2018, pg. 1083 [DOI: 10.1088/1742-6596/1083/1/012002]

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AWARDS AND ACHIEVEMENT

Excellent Service Award 2019

UPNM Awards Ceremony, 2020
23 September 2020

Invited Speaker

7th International Conference on Solid State Science & Technology,
The Everly Hotel Putrajaya
November, 2019

Gold Award

Materials Technology Challenge 3.0
November, 2019

Bronze Award

Defense, Security & Sustainability
Exhibition, 2019

Recipient of Intensive Scheme

Excellence in Research & Innovation,
2018

Silver Award

Defense, Security & Sustainability
Exhibition, 2017

Recipient of Intensive Scheme

Excellence in Research & Innovation
2017

PUBLICATIONS

Materials Science Forum

Fadhlina Che Ros
Rietveld Refinement Strategy of $CaTa_{4-x}Nb_xO_{11}$ Solid Solutions using GSAS-EXPGUI Software Package, 2017, 888, pg. 167
[DOI: 10.4028/www.scientific.net/MSF.888.167]

Zulfaqar International Journal of Defense Science, Engineering & Technology

Fadhlina Che Ros and AR West
Crystal Structure of $CaTa_4O_{11}$ Synthesised via Solid State Reaction Route, 2014, 1, pg. 65

Malaysian Journal of Analytical Sciences

Norli Abdullah, Hasliza Bahruji, Fadhlina Che Ros, Imran Syakir Mohamad
The Influence of Pd Nanoparticle Size on Pd/TiO₂ Catalysts for Cinnamaldehyde Hydrogenation Reaction, 2020, Volume 24 No(5), pg. 727

Advanced Materials

Norli Abdullah, Fadhlina Che Ros and Wan Mad Zin Wan Yunus
Influence of Surface Treatment and Dispersion Method of Stacked-up CNTs on the Adsorption of Arsenic (II) Ion, 2014

Asian Journal of Chemistry

Soleha Mohamat Yusuff, K. K. Ong, W. M. Z. Wan Yunus, A. Fitriano, M. Ahmad, N. A. Ibrahim, Fadhlina Che Ros, C. C. Teoh and S. N. M. Tawil
Adsorption of Carbon Dioxide by reusing Drinking Water Treatment Plant Sludge, 2017, 29(12), pg. 2665 [DOI:10.1016/j.matpr.2018.07.055]

Modern Applied Science

Keat Khim Ong, A. T. Ahmad Farhan, W. M. Z. Wan Yunus, Ahmad Mujahid Ahmad Zaidi, M. L. Jabit, A., Fitrianto, K. M. Safidin, U. F. Abdul Rauf, F. Che Ros, A. G. Hussin & M. B. Ahmad
Factorial Design Analysis of Zn (II) Ions Adsorption on Thermally Treated Rice Husk, 2016, 10

Zulfaqar International Journal of Defense Science, Engineering & Technology

K. K. Ong, A. F. A. Tarmizi, W. M. Z. Wan Yunus, K. M. Safidin, A. Fitrianto, Fadhlina Che Ros, A. G. Hussin, A. F. M. Azmi
Effects of Contact Period and Adsorbent Dosage on Zn(II) Ion Removal by Thermally Treated Rice Husk, 2014, 2, pg. 71

Journal of Electrochemical Science

Fadhlina Che Ros
Electrical and Microwave Properties of the New Family Phases $LaZrTa_3O_{11}$ Analogues
(Submitted)

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AWARDS & ACHIEVEMENT

Recipient of Intensive Scheme

Excellence in Research & Innovation
2015

Best 2-Minutes Presentation

5th International Conference on Functional Materials &
Devices
August 2015

REFERENCES

1. Assoc. Prof. Ahmad Zaidi Sulaiman
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National Defence University of
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2. Assoc. Prof. Dr. Norli Abdullah
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National Defence University of
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