

Curriculum Vitae



1. BASIC PROFILE

Name :	Nor Fadilah Chayed
Faculty/Institute :	1. Faculty of Applied Sciences 2. Centre for Nanomaterials Research Institute of Science Universiti Teknologi MARA 40450 Shah Alam, Selangor Malaysia
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2. SERVICES

Appointments	Date/Year of Services
Lecturer DM45	26/6/2014

3. QUALIFICATION

Qualification	Year
B.Sc (hons) Chemistry	2009
M.Sc (Materials Science – Nanomaterials)	2014

4. TEACHING EXPERIENCE

No	Details	Year
1.	Foundation Chemistry I and II (CHM092/CHM096)	2016-present
2.	General Chemistry (CHM420)	2014-2016
3.	Laboratory classes for Foundation Chemistry I and II (CHM092/CHM096), General Chemistry (CHM420), Analytical Chemistry (CHM421) and Organic Chemistry (CHM412)	2014-2016
4.	Supervised Final Year Project students	2014-present

5. RESEARCH AREA

Research Area	Year
Nanomaterials and nanostructures, band gap	2010- Present

6. RESEARCH GRANT

No	Title	File No,	Amount (RM)	Year
1.	Synthesis and Characterization of MgO and Mg _{1-x} Cu _x O Nanomaterials and their Band Gap Energies (Head of Project-LESTARI Grant)	600-IRMI/DANA KCM 5/3/LESTARI (219/2017)	20,000	1 Okt 2017 – 30 Sept 2019
2.	Charge-discharge Properties LiCo _{0.3} Ni _(0.7-x) Ti _x O ₂ Cathode Materials and their Chemical Configuration (Member of Project-FRGS Grant)	600-IRMI/FRGS 5/3 (049/2017)	100,912.00	14 Ogos 2017 – 14 Ogos 2019
3.	Synthesis, Characterization and Band Gaps of ZnO and Zn _(1-x) Mn _x O Nanomaterials (Member of Project-LESTARI Grant)	600-IRMI/Dana KCM 5/3/LESTARI (103/2017)	20,000	1 Jul 2017 30 Jun 2019
4.	Materials Characterization and Electrochemical Performance of LiMn _{2-x} Ti _x O ₄ (Member of Project-LESTARI Grant)	600-IRMI/MyRA 5/3/LESTARI (0073/2016)	20,000	1 July 2016 – 30 Jun 2018
5.	Structural Stability of Partial Substitutional Ti in LiMn ₂ O ₄ Cathode Materials (Member of Project-BESTARI Grant)	600-IRMI/DANA 5/3/BESTARI (0026/2016)	50,000	1 Sept 2016 – 31 Ogos 2018

7. TRAINING/ WORKSHOP/ CONFERENCE

No	Training/ Conference	Venue	Year
1.	Solartron Impedence Analyser Model:1260A	UiTM Shah Alam	2 Dec 2009
2.	On-site training for FT-MID IR and FAR IR	UiTM Shah Alam	6 Jan 2010
3.	On-site training for UV-VIS-NIR Lambda 950	UiTM Shah Alam	14 Jan 2010
4.	Workshop on HRTEM/SEM	SACC, Shah Alam	25 – 27 May 2010
5.	International Conference on the Advancement Materials and Nanotechnology II (ICAMN II 2010)	Kuala Lumpur	29 Nov – 1 Dec 2010
6.	19 th Scientific Conference of the Electron Microscopy Society of Malaysia	Langkawi	14 – 16 Dec 2010
7.	Advances in Applied Physics and Materials Science Congress (APMAS)	Antalya, Turkey	12 – 15 May 2011
8.	Crystallography & Structure Determination Workshop	UiTM Shah Alam	6 – 10 June 2011
9.	International Conference on Materials for Advanced Technologies (ICMAT),	SUNTEC Singapore	27 Jun – 1 July 2011
10.	Kursus Keselamatan Makmal Sains	UiTM Shah Alam	20 June 2011
11.	10 th Asia-Pacific Microscopy Conference (APMC 10)	Perth, Australia	5 – 9 Feb 2012
12.	4 th International Conference on Solid State Science and Technology (ICSSST)	Melaka	18-20 Dec 2012
13.	Application Training Course for JEOL JEM-2100F Transmission Electron Microscope System	UiTM Shah Alam	7-11 Jan 2013
14.	Recent Advances & Application in Microscopy	USM Penang	Mac 2014
15.	Lithium-ion Battery Training and Workshop – 1 st Series	UiTM Shah Alam	7-10 Oct 2014
16.	Lithium-ion Battery Training and Workshop –2 nd Series	UiTM Shah Alam	16 – 19 Mac 2015
17.	ASEAN Workshop on X-Ray Absorption Spectroscopy (AWX2015)	SLRI, Thailand	8 – 10 June 2015
18.	International Tin Chemical and Solder Conference Exhibition (ITCSCE)	Kuala Lumpur	7 & 8 Oct 2015
19.	Application of XPS and Nanoparticles in Industry	UiTM Shah Alam	20 Ogos 2015
20.	Lithium-ion Battery Training and Workshop –3 rd Series	UiTM Shah Alam	26 -29 July 2016
21.	International Conference on the Advancement of Materials and Nanotechnology IV 2016	Langkawi	9 – 11 Nov 2016
22.	Training Particle Sizer	UiTM Shah Alam	9-10 March 2016
23.	Training STA 449 F5 Jupiter, NETZSCH	UiTM Shah Alam	16-17 March 2016
24.	Workshop on XRD Qualitative and Quantitative Analysis: The Proper Way of Doing Search and Match and Rietveld Refinement	UiTM Shah Alam	23 – 25 January 2018

25.	Workshop on Microscopy and Analytical Microscopy	UiTM Shah Alam	14 – 15 Mac 2018
26.	International Conference on Solid State Science and Technology 2017	Penang	13 – 16 November 2018

8. MEMBERS OF PROFESSIONAL BODIES/SOCIETIES

No	University/Research Institution/Industry	National/International	Year
1.	Centre of Nanomaterials (CNR), Institute of Science, UiTM (Associate member)	National	2015-present
2.	Institut Kimia Malaysia (Member)	National	2015-present
3.	Microscopy Society of Malaysia (MSM)-(Life member)	National	2012-present
4.	Malaysian Solid State Science and Technology Society (MASS)- (Life member)	National	2017-present

9. AWARDS/EXHIBITIONS

No	Name of Award	Details	Year
1.	Best Micrograph (Physical Science Category-SEM Microscope)	EMSM 2010	2010
2.	Best Micrograph (Transmission Electron Microscopy-Material Sciences)	MSM 2012	2012
3.	Invention, Innovation and Design Expo (Bronze , Category Innovation)	Li _{2x} Mg _(1-x) O Light Absorption Properties for Semiconductor Applications	2014
4.	Invention, Innovation and Design Expo IDEX 2016 (Gold , Category Innovation)	MgO Thin Films for Metal Oxide Semiconductor Application	2016
5.	Invention, Innovation and Design Expo IDEX 2016 (Gold , Category Innovation)	Modified Zn(1-x)Cu _x O Novel Materials for Solar Cell Application	2016

10. PUBLICATIONS

No	Publication Details	Impact Factor/Indexed
1.	N.F. Chayed , N. Badar, R. Rusdi, N. Kamarudin, and N. Kamarulzaman, "1-D Thin Layer Magnesium Oxide (MgO) Nanostructure", Malaysia Journal of Microscopy, Vol. 7 (2011) pp 75-77 ISSN: 1823-7010	Scopus
2.	N. Kamarulzaman, N.F. Chayed and N. Badar "Synthesis and Characterization of Mg _{0.9} Li _{0.2} O", Malaysia Journal of Microscopy, Vol. 7 (2011) pp 65-69 ISSN: 1823-7010	Scopus

3.	N. Badar, N.F. Chayed , R. Rusdi, N. Kamarudin, and N. Kamarulzaman, "Effect of Annealing Time on the Morphology and Particle Size of Magnesium Oxide", Malaysia Journal of Microscopy, Vol. 7 (2011) pp 78-81 ISSN: 1823-7010	Scopus
4.	Nor Fadilah Chayed , Nurhanna Badar, Roshidah Rusdi, Norashikin Kamarudin, and Norlida Kamarulzaman, "Optical Band Gap Energies of Magnesium Oxide (MgO) Thin Film and Spherical Nanostructures" AIP Conf. Proc. 1400, 328-332 (2011); doi:10.1063/1.3663137	ISI/Scopus
5.	Nor Fadilah Chayed , Nurhanna Badar, Roshidah Rusdi, Norashikin Kamarudin, Norlida Kamarulzaman, "Effect of Synthesis Method on the Nanostructures of Magnesium Oxide (MgO) and their Band gap Energies", Advanced Materials Research, Vol. 545 (2012) pp 153-156	Scopus
6.	Nurhanna Badar, Nor Fadilah Chayed , Roshidah Rusdi, Norashikin Kamarudin, Norlida Kamarulzaman, "Band gap Energies of Magnesium Oxide Nanomaterials Synthesized by the Sol-gel Method", Advanced Materials Research, Vol. 545 (2012) pp 157-160	Scopus
7.	Norlida Kamarulzaman, Kelimah Elong, Roshidah Rusdi, Nor Fadilah Chayed , Nurhanna Badar, and Lili Widarti Zainudin, "Influence of carbon additives on cathode materials, LiCoO ₂ and LiMn ₂ O ₄ ", Advanced Materials Research, Vol. 545 (2012) pp 214-219	Scopus
8.	Nor Fadilah Chayed , NurhannaBadar, Roshidah Rusdi, AziraAzahidi and Norlida Kamarulzaman, "Band gap energies of Li _{2x} Mg _(1-x) O materials synthesized by the sol-gel method", Journal of Crystal Growth, Vol. 362 (2013) pp 268-270.	IF 1.481 (Q3)
9.	N. Badar, N. Kamarulzaman, N.F. Chayed and R. Rusdi, "Cu substituted MgO nanomaterials", Malaysian Journal of Microscopy, Vol.9 (2013) pp 18-21	-
10.	Nor Fadilah Chayed , Norlida Kamarulzaman, Nurhanna Badar, Roshidah Rusdi, Norashikin Kamarudin and Mohd Sufri Mastuli, "MgO nanostructured materials obtained via the solid-state reaction method, Advanced Materials Research, Vol. 895 (2014) pp 347-350	-
11.	Norlida Kamarulzaman, Nor Fadilah Chayed and Nurhanna Badar, "MgO Nanoparticles via a Simple Solid-state Reaction, AIP Proceeding, Vol 1711, 040004 (2016); doi: 10.1063/1.4941626	ISI/Scopus
12.	N. Kamarulzaman, M.F. Kasim, N.F. Chayed , "Elucidation of the highest valence band and lowest conduction band shifts using XPS for ZnO and Zn _{0.99} Cu _{0.01} O band gap changes", Results in Physics, Vol 6 (2016) pp 217-230.	IF 1.337 (Q2)
13.	N. Kamarulzaman, N. F. Chayed , N. Badar, M. F. Kasim, D. T. Mustafa, K. Elong, R. Rusdi, T. Oikawa and H. Furukawa, "Band Gap Narrowing of 2-D Ultra-Thin MgO Graphene-Like Sheets" ECS Journal of Solid State Science and Technology, Vol 5 (11) (2016) pp Q3038-Q3045.	IF 1.650 (Q2)
14.	Norlida Kamarulzaman, Nurhanna Badar, Nor Fadilah Chayed and Muhd Firdaus Kasim, "Band gap widening and quantum tunnelling effects of Ag/MgO/p-Si MOS structure", Mater. Res. Express 3 (2016) 106401 doi:10.1088/2053-1591/3/10/106401.	IF 0.968 (Q3)
15.	D. T. Mustafa, N. Kamarulzaman, N. F. Chayed , N. H. Badar, M. F. M. Taib, and A. B. M. A. Ibrahim,"Particle Size Dependency of Cubic MgO Towards Its Electronic Structures, a First Principle Study", Journal of Computational and Theoretical Nanoscience, Vol. 14 (2017) pp 1-5	
16.	N. F. S. M. Fauzi, N. Kamarulzaman, M. F. Kasim, N. F. Chayed , and N. D. A. Aziz," Preparation of tin oxide quantum dots", AIP Conference Proceedings Vol. 1877, 030009 (2017); doi: 10.1063/1.4999865	ISI/Scopus

11. PUBLICATION OVERVIEW

No	Details	Total
1.	h-index	5
2.	citations	46
3.	i-10 index	1

12. CONTRIBUTIONS TO UNIVERSITY/FACULTY

No.	Details
1.	Secretariat – The Workshop on HRTEM/SEM 2010
2.	Secretariat – International Conference on the Advancement of Materials and Nanotechnology 2010
3.	Secretariat – Crystallography & Structure Determination Workshop 2011
4.	Secretariat – Li-ion Battery and Training Workshop 2014 (Series 1)
5.	Secretariat – Li-ion Battery and Training Workshop 2015 (Series 2)
6.	Secretariat – Li-ion Battery and Training Workshop 2016 (Series 3)
7.	Committee member – Program Pembentangan Latihan Industri Fakulti Sains Gunaan Jun 2015
8.	Committee member – Program Pembentangan Latihan Industri Fakulti Sains Gunaan Dis 2015
9.	Committee member – Misi Akademik (2015-present)
10.	Secretariat – International Conference on the Advancement of Materials and Nanotechnology IV 2016 (AJK Website)
11.	Academic advisor – Centre of Foundation Studies, UiTM Dengkil
12.	Ahli Jawatankuasa Pembangunan dan Pelarasan P&P CHM092
13.	Member of Editorial Bulletin Institute of Science
14.	Panel Penilai dan Pemeriksa kedua FSG611 (Projek I)
15.	Panel Penilai dan Pemeriksa kedua FSG661 (Projek II)
16.	Panel Pemeriksa Laporan Latihan Industri