



UNIVERSITI PERTAHANAN NASIONAL MALAYSIA

UPNM.PEND.HRM.001

JABATAN PENDAFTAR

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MS ISO 9001:2008 REG NO
KLR -0500197



CURRICULUM VITAE

I. PERSONAL PARTICULARS

Name	DR. INTAN JULIANA BINTI SHAMSUDIN
Current Position Faculty/Department	Senior Lecturer (DS 51) / Pusat Asasi Pertahanan

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

Year	Degree	Discipline	University
2002	Science Matriculation	Science	Malacca Matriculation College
2006	Bachelor of Science (Hons)	Chemistry	Universiti Putra Malaysia
2010	Master of Science	Polymer Chemistry	Universiti Putra Malaysia
2016	Doctor of Philosophy	Chemistry	Universiti Kebangsaan Malaysia

III. TITLES OF POSTGRADUATE THESES WRITTEN

No.	TITLES OF POSTGRADUATE THESES
1. Master	Preparation of epoxidised palm oil/clay nanocomposites by microwave heating
2. Phd	Investigation on the effects of imidazolium ionic liquids on the derivatives of chitosan and kappa carrageenan based biopolymer electrolytes for application in electrochemical devices

IV. WORK EXPERIENCE			
Year	Position	Field of Work	Place of Work
2005	Practical Training	Polymer processing Pharmaceutical	Malaysian Institute of Nuclear Technology (MINT), Bangi Selangor
2006	Tutor/demonstrator	Inorganic chemistry	Universiti Putra Malaysia, Serdang Selangor.
2008	Lecturer	Chemistry	Taylors University, Petaling Jaya.
2011-2016	Tutor	Chemistry	National Defence University of Malaysia

1.0 TEACHING AND SUPERVISION

1.1 Foundation Courses

No	Course Title	Semester
1.	FCH 0216 – Chemistry lab I	1
2.	FCH 0226 – Chemistry lab II	2
3.	FCH 0226 – Chemistry II	2
4.	FCH 0216 – Chemistry I	1

1.2 Supervision (Coursework and Project)

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Status
				<ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Nur Syahirah Binti Suhalim	Removal Behaviour Study of Iron and Manganese from Groundwater by Nanohybrid Polysulfone Nanofiltration	2020 - current	In progress
2.	Norsyabila Binti Shrgawi	Preparation and characterization of carrageenan based biopolymer electrolyte with imidazolium ionic liquid	2019- current	In progress
3.	Naufal Bahzi Bin Tanplan Ashbi	Kesan kepekatan Kappa Karrageenan dan cecair ionik [Bmim]Cl ke atas sifat konduktor ionik	2017-2018	Completed

2.0 RESEARCH AND PUBLICATION

Research project

No	Title	List of Researchers <ul style="list-style-type: none"> • Principle • Members 	Grant Year	Source amount	Status <ul style="list-style-type: none"> • Completed • In Progress
1.	Hybrid Kappa-carrageenan/Graphene Oxide Membranes Functionalized with Antimicrobial Silver: Interaction Mechanism and Its Influence on Separation Performance	Dr. Norherdawati Binti Kasim (Principle) Members: Prof. Dr. Abdul Wahab Bin Mohammad Dr Intan Juliana Shamsudin Dr. Fathiah Binti Mohamed Zuki Prof Madya Mohd Asri Bin Md Nor Dr. Chung Ying Tao	2021-2024	128,250.00	In progress
2.	Synthesis and Characterization of Hydrophobic Benzoyl Carrageenan Electrolyte RACER/1/2019/STG01/UPN M//2	Dr Intan Juliana Shamsudin (Principle) Members: Mejar Prof. Ts. Dr. Muhd Zuazhan bin Yahya Dr Safura Taufik Dr Siti Aminah Mohd Noor Dr Hussein Hanibah (UiTM)	2019-2021	31,400	Completed
3.	Anion Characteristic of Seaweed Based Green Biopolymer Electrolytes For Al-Air Battery UPNM/2018/GPJP/2/SG/2	Dr Intan Juliana Shamsudin (Principle) Members: Prof Emeritus Dato' Dr Wan Md Zin B Wan Yunus Dr Norherdawati Binti Kasim Dr Safura Taufik Nurul Hazwani Aminuddin Rosli	2018-2020	20,000	Completed
4.	Study of Rejection Mechanism in Mixed Matrix Nanofiltration Membrane for Iron and Manganese Removal in Groundwater RACER/1/2019/STG07/UPN M//1	Dr. Nor Laili-Azua Jamari (Principle) Members: Prof. Dr. Abdul Wahab Bin Mohammad (UKM) Norherdawati Binti Kassim Dr Intan Juliana Shamsudin Dr. Fathiah Binti Mohamed Zuki (UM)	2019-2021	46,443	Completed
5.	Investigation of electrochemical impedimetric behaviour of the DNA aptamer conjugated gold nanoparticles/reduced graphene oxide-modified electrode for the determination of malathion. RACER/1/2019/STG01/UPN M//1	Dr Safura Taufik (Principle) Members: Prof. Dr. Nor Azah Binti Yusof Dr Intan Juliana Shamsudin Dr. Jahwarhar Izuan Bin Abdul Rashid Dr Siti Aminah Mohd Noor	2019-2021	31,400	Completed
6.	Liquid Polymer Electrolyte: Molar Conductivity study on Polyethylene oxide (PEO) using calcined MgO/Hydrotalcite Nanocomposite Materials	Dr Hussein Hanibah (Principle) Members: Prof. Dr. Azizan B Ahmad Dr Intan Juliana Shamsudin Dr. Nazrizawati Binti Ahmad Tajuddin	2019-2021	51,000	Completed

	RACER/1/2019/STG01/UITM/17	Dr. Nor Zakiah Binti Nor Hashim			
7.	Nanohybrid Polysulfone Ultrafiltration Membranes Surface Modification For Anti-Biofouling In Water Treatment UPNM/2019/GPJP/2/SG/2	Dr. Norherdawati Binti Kassim (Principle) Prof Emeritus Dato' Dr Wan Md Zin B Wan Yunus Prof. Dr. Abdul Wahab Bin Mohammad (UKM) Dr. Intan Juliana Shamsudin Dr. Noor Aisyah Ahmad Syah	2019-2021	20,000	Completed
8.	An Antifouling Interfacing Based On Electrode-Organic Layer Nanoparticles Construct for Selective Determination of Uric Acid As Wound Biomaker for Potential Application in Wound Status Monitoring UPNM/2018/GPJP/2/SG/1	Dr Safura Taufik (Principle) Members: Prof Dr Nor Azah Yusof Dr Intan Juliana Shamsudin Dr. Siti Aminah Mohd Noor Dr. Jahwarhar Izuan Abdul Rashid	2018-2020	20,000	Completed
9.	Microwave synthesis of Silicone Carbide From Rice Husk UPNM/2017/GPJP/2/SG/1	Dr. Alinda Samsuri (Principle) Members: Prof Emeritus Dato' Dr Wan Md Zin B Wan Yunus Dr Intan Juliana Shamsudin Dr. Siti Aminah Mohd Noor Dr. Norherdawati Binti Kassim Dr. Aniza Binti Ibrahim	2017-2019	40,000	Completed

2.2 Seminars and Publications

Seminars

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level
1.	Norsyabila Shrgawi, Intan Juliana Shamsudin , Hussein Hanibah, Norherdawati Kasim, Siti Aminah Mohd Noor, Biopolymer Electrolyte Host Based on Newly Synthesized Benzoyl Kappa Carrageenan, Regional Conference on Solid State Science and Technology (RCSSST 2022) 6-8 September 2022.	International (Oral)
2.	Norsyabila Shrgawi, Intan Juliana Shamsudin , Hussein Hanibah, Norherdawati Kasim, Siti Aminah Mohd Noor, Synthesis of Benzoyl Carrageenan as Biopolymer Electrolyte Host, International Conference On Research And Practices In Science, Technology And Social Sciences (I-CReST 2022). 23 July 2022.	International (Oral)
3.	Norsyabila Shrgawi, Intan Juliana Shamsudin , Hussein Hanibah, Norherdawati Kasim, Siti Aminah Mohd Noor, Synthesis of Hydrophobic Benzoyl Carrageenan as Polymer Electrolyte, The 8th International Conference on Solid State Science and Technology (ICSSST) 2021, 1-3 November 2021	International (Oral)
4.	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Incorporating 1-butyl-3-Methylimidazolium Chloride Ionic Liquid into Iota Carrageenan Solid Biopolymer Electrolyte for Electrochemical Devices Application. 7th International Conference on Solid State Science and Technology 2019 (ICSSST 2019), Everly Hotel, Putrajaya, 11-13 November 2019.	International (Poster)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Carboxymethyl chitosan based biopolymer electrolyte with imidazolium ionic liquid, 4th International Conference on The Science and Engineering of	International (Oral)

	Materials (ICoSEM 2019), Armada Hotel, Petaling Jaya, 26-28 August 2019	
	I.J Shamsudin , N.H Hassan, H. Kaddami, Biopolymer Based on Carboxymethyl Chitosan With Dual Function Ionic Liquid For Electrochemical Devices Application, 29th Regional Conference of Solid State Science and Technology 2016 (RCSST), KSL Hotel & Resort , Johor Bahru, Malaysia 15-17 November 2016.	National (Oral)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Carboxymethyl kappa Carrageenan with High Basicity Ionic liquid as Solid Polymer Electrolyte. Malaysia-Thailand-Japan International Conference on Science and Technology, 28-29 September 2016, UKM Graduate Centre.	International (Oral)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Bifunctional Ionic Liquid in Conductive Biopolymer Based on Chitosan For Electrochemical Devices Application - International Symposium of Polymer Electrolytes. 24-29 August 2014, Melbourne Australia	International (Poster)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Solid Polymer Electrolytes Based on k-carrageenan and Ionic Liquid for Energy Storage Materials - 2nd International Conference on Global Trends in Pure and Applied Chemical Sciences, 3-4 October 2014, Harbour Plaza Resort, Hong Kong.	International (Oral)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Conductive K-Carrageenan with Ionic Liquid 1-butyl-3-methylimidazolium Chloride For Energy Storage Material Application – The 6th International Conference on Postgraduate Education (ICPE-6), 17-18 December 2014, UTEM, Malacca, Malaysia.	International (Poster)
	I.J Shamsudin , N.H Hassan, H. Kaddami, A. Ahmad. Green Polymer Electrolytes Based on Chitosan and 1-butyl-3- Methylimidazolium Acetate - Kolokium Siswazah ke-14, 9-10 April 2014, Faculty of Science & Technology, UKM.	National (Oral)
	I.J Shamsudin , H. Ramli, N.A, Ibrahim, M. Ahmad, O.T Lye, W.M.Z.W Yunus. Seminar Tahunan Kelima Biasiswa Penyelidikan National Science Fellowship (NSF), 19-20 November 2008, Faculty of Engineering, UPM.	National (Oral)
	I.J Shamsudin , H. Ramli, N.A, Ibrahim, M. Ahmad, O.T Lye, W.M.Z.W Yunus. Microwave assisted preparation of EPO/CLAY/TETA/ODA polymer nanocomposites. The 2nd International Conference for Young Chemists, 18-20th June 2008, Universiti Sains Malaysia,	International (Poster)
	I.J Shamsudin , H. Ramli, N.A, Ibrahim, M. Ahmad, O.T Lye, W.M.Z.W Yunus, Nanocomposites based on epoxidised palm oil and TETA/ODA clay. The VIIth National Symposium on Polymeric Materials, 27-28th November, 2007 UniKL, Kuala Lumpur.	National (Poster)
	I.J Shamsudin , H. Ramli, N.A, Ibrahim, M. Ahmad, O.T Lye, W.M.Z.W Yunus. Polymer networks nanocomposites from epoxidised palm oil – Pameran Rekacipta, Penyelidikan Dan Inovasi UPM 2007, 27-29 November 2007, UPM, Serdang.	National (Poster)
	H. Ramli, I.J Shamsudin , N.A, Ibrahim, M.Z.A Rahman, O.T Lye, W.M.Z.W Yunus. New biopolymeric networks from epoxidised palm oil	National (Poster)

	– Pameran Rekacipta, Penyelidikan Dan Inovasi UPM 2007, 27-29 November 2007, UPM, Serdang.	
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2.3 Journal Article

No	Title	Level
1.	Shamsudin, I.J , Ahmad, A., Hassan, N. & Kaddami, H. 2014. Solid Biopolymer Electrolyte Based on k-Carrageenan for Electrochemical Devices Application. <i>Asian Journal of Chemistry</i> 26: 77-80	International (IF : 0.20)
2.	Shamsudin, I. J , Ahmad, A. & Hassan, N. H. 2014. Green polymer electrolytes based on chitosan and 1-butyl-3-methylimidazolium acetate. The 2014 UKM FST postgraduate colloquium: Proceedings of the Universiti Kebangsaan Malaysia, Faculty of Science and Technology 2014 Postgraduate Colloquium, hlm. 393-398.	National (ISI index : Scopus)
3.	Shamsudin, I.J , Ahmad, A., Hassan, N. & Kaddami, H. 2015. Bifunctional ionic liquid in conductive biopolymer based on chitosan for electrochemical devices application. <i>Solid State Ionics</i> 278: 11-19.	International (IF : 2.380)
4.	Shamsudin, I.J , Ahmad, A., Hassan, N. & Kaddami, H. 2016. Biopolymer electrolytes based on carboxymethyl κ -carrageenan and imidazolium ionic liquid. <i>Ionics</i> : 1-11.	International (IF : 2.119)
5.	Hanibah, H., NZ Nor Hashim, and I. J. Shamsudin . "Molar conductivity behavior of ionic liquid compare to inorganic salt in electrolyte solution at ambient temperature." <i>AIP Conference Proceedings</i> . Vol. 1877. No. 1. AIP Publishing, 2017.	International Scopus
6.	Ghani, N. A. A., Anuar, F. H., Ahmad, A., Mobarak, N. N., Shamsudin, I. J., Dzulklipli, M. Z., & Hassan, N. H. (2020). Incorporating 1-butyl-3-methylimidazolium chloride ionic liquid into iota carrageenan solid biopolymer electrolyte for electrochemical devices application. <i>Sains Malaysiana</i> , 49(2), 305-313.	Q3
7.	Shamsudin, I. J., Shrgawi, N., Hanibah, H., Hassan, N. H., & Ahmad, A. (2020). Carboxymethyl chitosan-based biopolymer electrolyte with imidazolium ionic liquid. <i>Malaysian Journal of Analytical Sciences</i> , 24(5), 744-756.	Q4
8.	Diauddin, F. N., Mohd Noor, S. A., Abdul Rashid, J. I., Feizal Knight, V., Wan Yunus, W. M. Z., Ong, K. K., ... & Latip, W. (2020). Preparation and Characterisation of Polypyrrole-Iron Oxyhydroxide Nanocomposite as Sensing Material. <i>Advances in Materials Science and Engineering</i> , 2020.	Q2
9.	Shrgawi, N., Shamsudin, I. J., Hanibah, H., Mohd Noor, S. A., & Kasim, N. (2021). Purification on Kappa Carrageenan by Re-Precipitation Technique. In <i>Solid State Phenomena</i> (Vol. 317, pp. 327-332). Trans Tech Publications Ltd.	Q3
10.	Suhalim, N. S., Kasim, N., Mahmoudi, E., Shamsudin, I. J., Mohammad, A. W., Mohamed Zuki, F., & Jamari, N. L. A. (2022). Rejection Mechanism of Ionic Solute Removal by Nanofiltration Membranes: An Overview. <i>Nanomaterials</i> , 12(3), 437.	Q1

3.0 ACADEMIC RECOGNITION AND LEADERSHIP

(a) Academic Recognition and Leadership

No	Academic Recognition/Leadership	Year	Level	Awarding Body
	Gold medal Award at Malaysia Technology Expo (MTE 2022)	2022	International	MOHE
1.	2 Gold medal Award at Defence, Security and Sustainability (DSS 2019)	2022	National	UPNM
2.	International Virtual Expo Of Innovation Product And System Design 2021	2021	International	UNIMAP
3.	2 Silver medal Award at Materials Technology Challenges 5.0 (MTC 3.0)	2021	International	MASS & ICSST 2021
4.	Bronze medal Award at Defence, Security and Sustainability (DSS 2019)	2019	National	UPNM
5.	Silver medal Award at Materials Technology Challenges 3.0 (MTC 3.0)	2019	International	MASS
6	Gold medal Award at Invention, Innovation & Design Exposition (IIDEX 2017)	2017	National	UiTM
7.	Silver medal Award at Defence, Security and Sustainability (DSS 2017)	2017	National	UPNM
8.	Chairperson in the 29th Regional Conference of Solid State Science and Technology 2016	2016	National	The Malaysian Solid State Science and Technology Society
9.	Consolation award for outstanding performance in Mass Micrograph Award 2016	2016	National	The Malaysian Solid State Science and Technology Society
10.	Graduate on Time (GOT) Award for Doctor of Philosophy.	2016	National	Universiti Kebangsaan Malaysia
11.	2 Bronze medal Award at Pameran Rekacipta,	2007	National	Universiti Putra Malaysia

	Penyelidikan & Inovasi UPM.			
12.	National Science Fellowship from Ministry of Science Technology and Innovation Malaysia	2008	National	Ministry of Science Technology and Innovation Malaysia
13.	Dean's List Award in Semester IV in Bachelor Degree, UPM	2005	National	Universiti Putra Malaysia

(b) Consultancy - Consultancy work that benefited to the University.

No.	Title	Year	Sponsor	Value	Duration
1.	Committee in Jawatankuasa Jaminan Kualiti Universiti	2019-2020			2 years
	E-learning Coordinator for Centre for Defence Foundation Studies	2016-present			3 years – in progress
2.	Committee in the proposal for in Forensic Science coursework	2016			2 months – in progress
3.	Committee in the module preparation for Chemistry I and Chemistry II teks book.	2012-present			2012-present

(c) Service to the University

No	Position/Membership	Committee	Duration
1	Institut Kimia Malaysia (IKM)	Member	Lifetime membership
2	Nadimasa	Member	Lifetime membership
3.	The Malaysian Solid State Science and Technology Society (The MASS Malaysia)	Member	Lifetime membership
4.	Persatuan Analisis	Member	2018-current
5.	Persatuan Polimer Malaysia	Member	2019- current

(d) Service to the community

No	Level of involvement	Activity	Organiser	Venue	Date/Year/Duration
1.	National	'Jom Masuk Ipt' Carnival 2019	UPNM	MAEPS, Serdang, Selangor.	30/03/2019
2.	National	Training of Trainers (TOT) workshop for primary school	UPNM	Pusat Marin, UPNM	2018

		science			
3.	National STEM carnival	Science, Technology, Engineering and Mathematic (STEM)	UPNM	SK Bandar Tasik Selatan	2017- current
4.	Accompanying Officer (AO)	Istiadat Konvokesyen Ke-7	UPNM	Dewan Tun Templer, UPNM	26 October 2016

I declare that all the information in this form is true and correct. The University has the right to withdraw or reject the application if any information in this form found to be untrue.

Signature : 

Name : DR. INTAN JULIANA BINTI SHAMSUDIN

Faculty/Department : Department of Chemistry and Biology, Centre for Foundation Studies, UPNM.

Date : 1 September 2022

I verify that, to the best of my knowledge, all the information provided in the forms are true.

Dean
Signature and Stamp :

Date :