

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI <i>(Personal Details)</i>			
Nama Penuh <i>(Full Name)</i>	NUR SHARMILA SHARIP		Gelaran <i>(Title):</i> TS. DR.
No. MyKad / No. Passport <i>(Mykad No. / Passport No.)</i> 900722-01-5508	Warganegara <i>(Citizenship)</i> MALAYSIA	Bangsa <i>(Race)</i> MALAY	Jantina <i>(Gender)</i> FEMALE
Jawatan <i>(Designation)</i>	PENSYARAH KANAN	Tarikh Lahir <i>(Date of Birth)</i>	22 th JULY 1990
h-index	5 (Scopus), 7 (Google Scholar)		

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
DEPARTMENT OF BIOPROCESS TECHNOLOGY, FACULTY OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES, UNIVERSITI PUTRA MALAYSIA, Tel: 013-700 9605		E-mail: nursharmila@upm.edu.my URL: http://biotech.upm.edu.my https://www.scopus.com/authid/detail.uri?authorId=56082513500 https://scholar.google.com/citations?user=ZLei8FMAAAJ&hl=en

B. KELAYAKAN AKADEMIK <i>(Academic Qualification)</i>			
Nama Sijil / Kelayakan <i>(Certificate / Qualification obtained)</i>	Nama Sekolah Institusi <i>(Name of School / Institution)</i>	Tahun <i>(Year obtained)</i>	Bidang pengkhususan <i>(Area of Specialization)</i>
Master of Business Administration (MBA)	Universiti Putra Malaysia	2025	Business Administration
Doctor of Philosophy (PhD)	Universiti Putra Malaysia	2022	Green Engineering
Master of Science (MS)	Universiti Putra Malaysia	2016	Environmental Biotechnology
Bachelor of Science (BS)	Universiti Putra Malaysia	2012	Biotechnology

C. PENGALAMAN KERJA (Work Experience)				
Nama Firma/Universiti (Name of Firm/Universities)	Jawatan (Position)	Tahun Mula (Start Date)	Tahun Akhir (End Date)	Kepakaran (Expertise)
Universiti Putra Malaysia	Senior Lecturer	May 2024	To date	Bioprocess Design, Biostatistic, Bioentrepreneurship
Nexgreen Global Berhad	Senior Research & Development Executive	2022	2024	Pulp & Paper Technology, Biobased Product, Environmental Technology.
Universiti Putra Malaysia	Post-graduate Researcher	2018	2022	Biocomposite Technology, Lignocellulose-based Products, Environmental Technology.
Kyushu Institute of Technology, Japan	Exchange Post-graduate Researcher	2018	2019	Biocomposite Technology, Lignocellulose-based Products, Environmental Technology, Cell culture.
Halal Products Research Institute, Universiti Putra Malaysia	Research Assistant	2017	2017	Protein profiling, Protein Extraction.
Universiti Putra Malaysia	Post-graduate Researcher	2013	2016	Lignocellulose-based Products, Environmental Technology.
SIRIM Bhd.	Industrial Trainee	2011	2011	Bioprocess Technology, Industrial Biotechnology

D. ANUGERAH DAN HADIAH (Honours and Awards)				
<i>Name of Awards</i>	<i>Title</i>	<i>Awards Authority</i>	<i>Award type</i>	<i>Year</i>
<i>Academic Awards</i>	Japan Student Services Organization (JASSO) Scholarship	JICA, Japan	Scholarship	2019
	Japan Student Services Organization (JASSO) Scholarship	JICA, Japan	Scholarship	2018
	Graduate Research Fellowship Fund	UPM	Fellowship	2018
	MyBrain15 Scholarship	MOHE, Malaysia	Scholarship	2013
	Graduate Research Fellowship Fund	UPM	Fellowship	2013
<i>Non-Academic Awards</i>	Outstanding & Gold Innovation Award (Innovation title: Sustainable Food)	Malaysia Technology Expo 2023	Research	2023

	<i>Packaging from Empty Fruit Bunches Cellulosis Fibres)</i>			
	Gold Innovation Award (Innovation title: Preconditioning Refiner Chemical-Recycle Bleached Mechanised Pulp Technology for Oil Palm Fibre-Pulp Production)	Malaysia Technology Expo 2023	Research	2023
	Gold Innovation Award (Innovation title: Green Technology Park: The Next Generation of Green)	Malaysia Technology Expo 2023	Research	2023
	Gold Award Five Minutes Thesis (5MT) Competition	IKRAM Academia	Competition	2021
	Silver Award Post-Graduate Poster Competition Open Day 2020.	INTROP UPM	Competition	2020
	Best Poster Award	8 th International Symposium on Applied Engineering and Sciences	Conference	2020
	Silver Award UPM Three Minutes Thesis (3MT) Final Competition	UPM	Competition	2019
	Gold Award INTROP Three Minutes Thesis (3MT) Competition	INTROP, UPM	Competition	2019
<i>Awards of Merit</i>	-	-	-	-

E. SENARAI PENERBITAN TERPILIH (<i>List of selected publications</i>)	
<i>Journal</i>	<ol style="list-style-type: none"> Izan, N. L. M., Bahrin, E. K., Yusoff, M. Z. M., Simarani, K., Sharip, N.S., & Ariffin, H. (2024). Sustainable utilisation of oil palm empty fruit bunch and Perenniporia subtephropora for eco-friendly mycelium-based biofoam. <i>Biocatalysis and Agricultural Biotechnology</i>, 62, 103436. Lim, K.Y., Yasim-Anuar, T.A.T., Sharip, N.S., 2023. Green Phenolic Resins from Oil Palm Empty Fruit Bunch (EFB) Phenolated Lignin and Bio-Oil as Phenol Substitutes for Bonding Plywood. <i>Polymers</i>, 15(5), p.1258. Sharip, N.S., Tengku Yasim-Anuar, T., Ujang, F. and Faiz Norrrahim, M. (2023) Potato thermoplastic starch nanocomposite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. Sharip, N.S., Tengku Yasim-Anuar, T., Husin, H. and Norrrahim, M. (2023) Barley thermoplastic starch nanocomposite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. Norrrahim, M., Janudin, N., Asmal Rani, M., Jenol, M., Sharip, N.S., Nurazzi, N., Asyraf, M. and Ilyas, R. (2023) Wheat thermoplastic starch composite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. Sharip, N.S., Ariffin, H., Yasim-Anuar, T.A.T., Andou, Y., Shirozaki, Y., Jawaid, M., Tahir, P.M. & Ibrahim, N.A. (2021). Melt-vs. Non-Melt Blending of Complexly Processable Ultra-High Molecular Weight Polyethylene/Cellulose Nanofiber Bionanocomposite. <i>Polymers</i>, 13(3), p.404. Sharip, N.S., Ariffin, H., Andou, Y., Bahrin, E.K., Jawaid, M., Tahir, P.M.

	<p>& Ibrahim, N.A. (2020). Parameters Optimization in Compression Molding of Ultra-high Molecular Weight Polyethylene/Cellulose Nanofiber Bionanocomposites by using Response Surface Methodology. <i>Pertanika Journal of Science and Technology</i>, 28, p.299 – 316.</p> <p>8. Yasim-Anuar, T.A.T., Sharip, N.S., Noor, L., Megashah, H.A. & Nor, N.A.M. (2020). Cellulose Nanofibers from Waste Paper and their Utilization as Reinforcement Materials in Poly ((R)-3-Hydroxybutyrate-co-(R)-3-Hydroxyhexanoate Bionanocomposite. <i>Pertanika Journal of Science and Technology</i>, 28, pp.259-272.</p> <p>9. Sharip, N.S., Ariffin, H., Andou, Y., Shirosaki, Y., Bahrin, E.K., Jawaid, M., Tahir, P.M. & Ibrahim, N.A. (2020). Process Optimization of Ultra-High Molecular Weight Polyethylene/Cellulose Nanofiber Bionanocomposites in Triple Screw Kneading Extruder by Response Surface Methodology. <i>Molecules</i>, 25(19), p.4498.</p> <p>10. Sharip, N.S. & Ariffin, H. (2019). Cellulose nanofibrils for biomaterial applications. <i>Materials Today: Proceedings</i>, 16, pp.1959-1968.</p> <p>11. Sharip, N.S., Ariffin, H., Hassan, M.A., Nishida, H. & Shirai, Y. (2016). Characterization and application of bioactive compounds in oil palm mesocarp fiber superheated steam condensate as an antifungal agent. <i>RSC advances</i>, 6(88), pp.84672-84683.</p>
Books/ Monographs	-
Chapter in book	<p>1. Yasim-Anuar, T. A. T., Ariffin, H., Padzil, F. N. M., Sharip, N.S., Yee-Foong, L. N., Shazleen, S. S., Megashah, L.N., Abd-Rahim, N.F. & Hassan, M. A. (2022). Nanocellulose applications in packaging materials. In <i>Industrial Applications of Nanocellulose and Its Nanocomposites</i> (pp. 289-310). Woodhead Publishing.</p> <p>2. Shamsudin, S., Bahrin, E. K., Jenol, M. A., & Sharip, N.S. (2022). Characteristics and Potential of Renewable Bioresources. In <i>Renewable Energy from Bio-resources in Malaysia</i> (pp. 21-43). Springer, Singapore.</p> <p>3. Norrrahim, M.N.F., Sapuan, S.M., Yasim-Anuar, T.A.T., Padzil, F.N.M., Sharip, N.S., Ng, L.Y.F., Megashah, L.N., Shazleen, S.S., Rahim, N.F.A., Syafiq, R. & Ilyas, R.A. (2020). Antimicrobial Studies on Food Packaging Materials. In <i>Food Packaging</i>, pp.141-170.</p> <p>4. Sharip, N.S., Yasim-Anuar, T.A.T., Norrrahim, M.N.F., Shazleen, S.S., Nurazzi, N.M., Sapuan, S.M. & Ilyas, R.A. (2020). A review on nanocellulose composites in biomedical application. In <i>Composites in Biomedical Applications</i> (pp. 161-190). CRC Press.</p> <p>5. Sharip, N.S. & Ariffin, H. (2019). Polymeric Composites for Joint Replacement. In <i>Nanostructured Polymer Composites for Biomedical Applications</i> (pp. 385-404). Elsevier.</p>
Proceedings	<p>1. Sharip, N.S., Ariffin, H., Andou, & Y., Shirosaki (2021). Improved mechanical-tribological properties of ultra-high molecular weight polyethylene by the incorporation of cellulose nanofibrils via melt-blending. In <i>TAPPI Nano 2021 Virtual Conference</i>.</p> <p>2. Sharip, N.S., Ariffin, H., Andou, Y., Shirosaki, Y., Jawaid, M, Tahir, P.M., & Ibrahim, N.A. (2020). Improved mechanical-tribological properties and cytocompatibility evaluation of ultra-high molecular weight polyethylene/cellulose nanofiber bionanocomposites. In <i>8th International Symposium on Applied Engineering and Sciences</i> (Online Symposium).</p> <p>3. Sharip, N.S., Ariffin, H., Tahir, P.M., Jawaid, M., Ibrahim, N.A., & Andou, Y (2019). Effect of temperature, speed, and duration on filler dispersion and mechanical properties of ultra-high molecular weight polyethylene (UHMWPE)/Cellulose Nanofiber (CNF) Biocomposite Fabrication. In <i>Wood and Biofibre International Conference</i>, Kota</p>

	<p>Kinabalu, Malaysia.</p> <p>4. Sharip, N.S., Ariffin, H., Yasim-Anuar, T.A.T., Tahir, P.M., Jawaid, M, Ibrahim, N.A., Shirosaki, Y. & Andou, Y. (2019). Effect of Preparation Method on the Ultra-high Molecular Weight / Cellulose Nanofiber Nanocomposites Mechanical Properties. In <i>7th International Symposium on Applied Engineering and Sciences</i>, Serdang, Malaysia.</p> <p>5. Sharip, N.S., Ariffin, H., Andou, Y., Bahrin, E.K. & Jawaid, M. (2019). Effect of temperature, speed, and duration on filler dispersion and mechanical properties of ultra-high molecular weight polyethylene (UHMWPE) / Cellulose Nanofiber (CNF) Biocomposite Fabrication. In <i>11th International Conference on the Science and Technology for Advanced Ceramics</i>, Tsukuba, Japan.</p> <p>6. Sharip, N.S. & Ariffin, H. (2017). Cellulose nanofibrils for biomaterial applications. In <i>Conference on Biomedical and Advances Materials</i>, Langkawi, Malaysia.</p> <p>7. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2015). Potential use of superheated steam condensate from oil palm mesocarp fiber as antimicrobial agent. In <i>Asian Congress on Biotechnology</i>, Kuala Lumpur, Malaysia.</p> <p>8. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2014). Antifungal Properties of Oil Palm MesocarpFiber Superheated Steam Condensate. In <i>2nd International Symposium on Applied Engineering and Sciences</i>, Fukuoka, Japan.</p> <p>9. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2014). Effect of steam hydrolysis reaction temperature on the composition of oil palm mesocarp fiber condensate. In <i>Asian Federation of Biotechnology (AFOB) Regional Symposium</i>, Kuala Lumpur, Malaysia.</p>
Other publications	-
Computer software	-

F. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>)				
Tajuk Projek (Project Title)	Peranan (Role)	Tahun (Year)	Sumber Pembiayaan (Source of fund)	Status
Development of Radiolabeled Polymer-Based Holmium Nanoparticles for Potential Use in Liver Cancer Cells Treatment	Co-Researcher	2025-2027	Universiti Putra Malaysia (Putra IPM)	On-going
Biotransformation of Phenol in Black Liquor into Polyhydroxybutyrate for Improved Biocomposite Materials with Polylactic Acid	Co-Researcher	2025-2027	Universiti Putra Malaysia (Putra IPS)	On-going
Hybrid graphene/bio-origin additive enhanced natural fibre composites	Co-Researcher	2024-2026	PETRONAS Research Sdn Bhd	On-going
Redispersion of Spray-dried Oil Palm Empty Fruit Bunch (OPEFB) Cellulose Nanofiber (CNF) and its Functional Properties Evaluation for	Lead Researcher	2024-2026	Universiti Putra Malaysia (Putra IPM)	On-going

Advanced Material Applications				
Technology Needs, Carbon Footprint and Market Potential of Oil Palm Biomass Business.	Co-Researcher	2024-2025	Mitsubishi Heavy Industry	Completed
Additive Optimization of Sustainable Food Packaging Material from Oil Palm Empty Fruit Bunch (EFB)	Researcher	2023	Nextgreen Global Berhad	Completed
Coating Optimization of Sustainable Food Packaging Material from Oil Palm Empty Fruit Bunch (EFB)	Researcher	2023	Nextgreen Global Berhad	Completed
Biodegradation Evaluation of Sustainable Food Packaging Material from Oil Palm EFB	Researcher	2023-2024	Nextgreen Global Berhad	Completed
Lignin Extraction and Recovery from Pulping Liquor	Researcher	2023-2024	Nextgreen Global Berhad	Completed
Green Technology for Optimum Paper Pulp Production from EFB and Kenaf	Co-Researcher	2021-2023	Nextgreen Global Berhad	Completed
Sustainable Food Packaging Material from Oil Palm EFB Cellulosic Fibre Extracted Using Hybrid Chemical-Mechanical-Thermal Process	Co-Researcher	2018-2022	Nextgreen Global Berhad	Completed
Utilization of EFB Boiler Ash as Soil Conditioner for Marigold & Bok Choy Planting	Researcher	2022	Nextgreen Global Berhad	Completed
Treatment of Discharged Water from Boiler Wet Scrubber using Activated Carbon	Co-Researcher	2022	Nextgreen Global Berhad	Completed
Effects of Residual Lignin in Oil Palm EFB Cellulose Nanofiber on Dispersion, Mechanical and Thermal Properties of Polypropylene-Based Bionanocomposite	Co-Researcher	2021	UPM	Completed
Biodegradation of Nanocellulose Incorporated Biopolymer (Undergraduate Final Year Project - FYP)	Co-Supervisor	2021	UPM	Completed
Development of Ultra-high Molecular Weight Polyethylene /Cellulose Nanofiber Bionanocomposites for Tibial Inserts Application	Post Graduate Researcher	2018-2021	UPM	Completed
Cellulose Nanofibrils as Alternative Rheology Modifier for Alcohol-Based Hand Sanitizer (Undergraduate FYP)	Co-Supervisor	2020	UPM	Completed
Profiling of Polypeptide <i>via</i> LCMS/MS	Research Assistant	2017	MyHAC, JAKIM	Completed
Physical and Chemical Characterization of Oil Palm	Co-Supervisor	2016	UPM	Completed

Trunk Sap and Core Fibre from Veneer and Plywood Factory (Undergraduate FYP)				
Batch Cultivation of <i>Cupriavidus necator</i> KCTC 2649 Utilizing Oil Palm Trunk Sap in a 2 Liter Bioreactor for the Production of Poly(3-Hydroxybutyrate) (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
The Effect of Inoculum Concentration on Poly(3-Hydroxybutyrate) Production from <i>Cupriavidus necator</i> KCTC 2649 Utilizing Oil Palm Trunk Sap (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
Evaluation of Process Integration for Scaling Up of Biocrotonic Acid Production (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
Characterization and Antifungal Properties of Oil Palm Mesocarp Fiber (Part of project sponsored by Japan International Cooperation Agency, JICA)	Post Graduate Researcher	2013-2016	JICA (SATREPS)	Completed
Production of lipase by using immobilized cell of <i>Burkholderia cenocepaciae</i> .	Undergraduate Researcher (FYP)	2012	UPM	Completed