

CURRICULUM VITAE



Prof. Ir. Dr. Siti Mazlina Mustapa Kamal, CEng MIChemE Jabatan KejuruteraanProses dan Makanan, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor

T: 03-97696294 F: 03-89464440

Education

- 1. PhD, Chemical Engineering, The University of Manchester, UK, 2006
- 2. MSc, Biochemical Engineering, The University of Birmingham, UK, 1998
- 3. BEng., Chemical Engineering, Universiti Teknologi Malaysia, Malaysia, 1996

Areas of Interest

- 1. Food Process Engineering
- 2. Chemical Engineering

Professional Qualification/ Membership/ Affiliation

Professional Engineer, Board of Engineers Malaysia (BEM) Chartered Member, Institution of Chemical Engineers (IChemE) Graduate Member, Institution of Engineers Malaysia (IEM) Member, Malaysian Society for Engineering and Technology (MySET)

	Appointments			
Position		Duration		
1.	Professor, Department of Process and Food	June 2020 to date		
	Engineering, Faculty of Engineering, UPM			
2.	Associate Professor, Department of Process and	March 2010 to May 2020		
	Food Engineering, Faculty of Engineering, UPM			
3.	Head, Department of Process and Food	August 2007 to July 2009		
	Engineering, Faculty of Engineering, UPM			
4.	Acting Head, Department of Process and Food	August 2006 – July 2007		
	Engineering, Faculty of Engineering, UPM			
5.	Lecturer & Senior Lecturer, Department of Process	July 2006 – to 2010		
	and Food Engineering, Faculty of Engineering,	-		
	UPM			
6.	Lecturer, Department of Chemical and	Sept 1998 - July 2006		
	Environmental Engineering, Faculty of			
	Engineering, UPM			



Publications

Journals (20 recent journals)

1	Nurfatimah Mohd Thani, Siti Mazlina Mustapa Kamal, Alifdalino Sulaiman,		
	Farah Saleena Taip, Rozita Omar & Shamsul Izhar (2020), Hydrolysis and		
	characterization of sugar recovery from bakery waste under optimized subcritical		
	water conditions. Journal of Food Science and Technology. Published online on 23 rd .		
	March 2020 (DOI: 10.1007/s13197-020-04345-1) (JCR Impact Factor: O2)		
2	Saleem Ethaib Rozita Omar Siti Mazlina Mustana Kamal & Davang Radiah		
-	Awang Biak (2020) Comparison of sodium hydroxide and sodium bicarbonate		
	pretreatment methods for characteristic and enzymatic hydrolysis of sago nalm bark		
	Energy Sources Part A: Pecovery Utilization and Environmental Effects		
	Energy Sources, Part A. Recovery, Utilization, and Environmental Effects.		
	$[(ICR Impact Factor \cdot O4)]$		
3	Siti Baizura Binti Mahat Pozita Omar Jing Ling Lee Aida Isma Mobd Idrig		
5	Hasfaling Cha Man Siti Marling Mustana Kamal and Azri Idris (2020) Effect of		
	nastallia Che Mall, Shi Mazilla Mustapa Kallar alu Azili fulls (2020), Effect of		
	pore size of monormanient woven much court as supporting material for dynamic		
	memorane intration on performance using aerobic memorane bioreactor technology,		
	Asia Pacific Journal of Chemical Engineering, Published online on 25 March 2020		
	(DOI: 10.1002/apj.2453)		
4	Nurfatimah Mohd Thani, Siti Mazlina Mustapa Kamal, Alifdalino Sulaiman,		
	Farah Saleena Taip, Rozita Omar & Shamsul Izhar (2020), Sugar Recovery from		
	Food Waste via Sub-critical Water Treatment, Food Reviews International,		
	36(3):241-257		
	(DOI: 10.1080/87559129.2019.1636815) (JCR Impact Factor: Q1)		
5	Zghaibi, N., Omar, R., Kamal, S.M.M., Biak, D.R.A., and Harun, R., (2020)		
	Kinetics Study of Microwave-Assisted Brine Extraction of Lipid from the		
	Microalgae Nannochloropsis sp., Molecules, 25(4),784		
	(doi:10.3390/molecules25040784) (JCR Impact Factor: Q2)		
6	Mohd Thani, N., Mustapa Kamal, S.M., Taip, F.S., Sulaiman, A. and Omar, R.		
	(2019), Effect of sub-critical water hydrolysis on sugar recovery from bakery		
	leftovers, Food and Bioproducts Processing, 117:105-112 (JCR Impact Factor:		
	Q1)		
7	Mohd Thani, N., Mustapa Kamal, S.M., Taip, F.S., Sulaiman, A. and Omar, R.		
	(2019), Effect of enzyme concentrations on total reducing sugar from leftover		
	croissants and doughnuts via enzymatic hydrolysis, Food Research, 3(4): 313-316		
	(https://doi.org/10.26656/fr.2017.3(4).140)		
8	Zghaibi, N., Omar, R., Kamal, S.M.M., Biak, D.R.A., and Harun, R., (2019)		
	Microwave-assisted brine extraction for enhancement of the quantity and quality of		
	lipid production from microalgae Nannochloropsis sp. Molecules, 24(19),3581		
	(JCR Impact Factor: Q2)		
9	Mior Zakuan Azmi, M., Taip, F.S., Mustapa Kamal, S.M. (2019). Effects of		
	temperature and time on the physical characteristics of moist cakes baked in air fryer,		
	Journal of Food Science and Technology, 56(10): 4616-4624		
	(https://doi.org/10.1007/s13197-019-03926-z) (JCR Impact Factor: O2)		
10	Noradira Abdul Latiffa, Mohammad Effendy Ya'acob. Siti Mazlina Mustana		
	Kamal , and Guangnam Chen (2019) Performance of embedded photovoltaic solar		
	,		
	still for water purification system in the tropics. Desalination and Water Treatment		
	still for water purification system in the tropics, Desalination and Water Treatment, 145: 36-45 (doi:10.5004/dwt 2019.23478) (ICR Impact Factor: O3)		



11	Jumardi Roslan, Siti Mazlina Mustapa Kamal , Khairul Faezah Md Yunos and Norhafizah Abdullah, (2019), Assessment on Flux Reduction and Protein Rejection
	Behavior in Fractionating Tilapia By-Product Protein Hydrolysate by Ultrafiltration Membrane Pertanika Journal of Science & Technology 27(S1):67-80
12	Nur Izzati Md Saleh, Wan Azlina Wan Ab Karim Ghani, Mohd Razif Harun and Siti
12	Mazlina Mustapa Kamal. (2019) Optimization of Enzymatic Hydrolysis for the
	Production of Antioxidative Peptide from <i>Nannochloropsis gaditana</i> using
	Response Surface Methodology, Pertanika Journal of Science & Technology,
	27(\$1):41-55
13	Zainan, N.H., Sapardi, M.A.M., Ho, B.C.H., Siajam, S.I., Kamal, S.M.M., Danquah,
	M.K., Harun, R., (2019) Kinetic and thermodynamic characterization of amino acids
	generation via subcritical water reaction of microalgae Nannochloropsis sp.
	Biomass, Biomass Conversion and Biorefinery, (Published online: 29 November
14	2019) (DOI: doi.org/ <u>10.1007/s13399-019-00538-7</u>) (JCR Impact Factor: Q2)
14	Jumardi Roslan, Siti Mazina Mustapa Kamai, Khairul Faezan Md. Yunos, and Norhafizah Abdullah (2018) Evaluation on performance of dead and ultrafiltration
	membrane in fractionating tilania by product protein hydrolysate. Separation and
	Purification Technology 195: 21-29 (https://doi.org/10.1016/i.seppur 2017.11.020)
	(JCR Impact Factor: O1)
15	Jumardi Roslan, Siti Mazlina Mustapa Kamal, Khairul Faezah Md. Yunos, and
	Norhafizah Abdullah, (2018), A Comparative Study between Tilapia (Oreochromis
	niloticus) By-product and Tilapia Protein Hydrolysate on Angiotensin I-converting
	Enzyme (ACE) Inhibition Activities and Functional Properties, Sains Malaysiana,
	47(2): 309-318 (<u>http://dx.doi.org/10.17576/jsm-2018-4702-13</u>) (JCR Impact
10	Factor: Q3)
10	Ethalo, S., Omar, K., Mazina, M.K.S., Radian, A.B.D and Syame, S., (2018) Development of a hybrid PSO ANN model for estimating glucose and vulose yields
	for microwave-assisted pretreatment and the enzymatic hydrolysis of lignocellulosic
	biomass. Neural Computing and Applications. 30(4): 1111-1121
	(10.1007/s00521-016-2755-0) (JCR Impact Factor: Q1)
17	Bernard Chon Han Ho, Siti Mazlina Mustapa Kamal, Michael K.Danquah,
	and Razif Harun, (2018), Optimization of sub-critical water extraction (SWE) of
	lipid and eicosapentaenoic acid (EPA) from Nannochloropsis gaditana, BioMed
	Research International, Vol. 2018, Article ID 8273581, 11 pages
	(https://doi.org/10.1155/2018/8273581) (JCR Impact Factor: Q2)
18	Mahat, S.B, Omar, O., Idris, A., Mustapa Kamal, S.M. and Mohd Idris, A.I.,
	Dynamic membrane applications in anaerobic and aerobic digestion for industrial
	wastewater: A mini review, (2018) Food and Bioproducts Processing,
10	112(Nov.):150-168 (JCR Impact Factor: Q1)
19	Abdullan, Z., 1 aip, F.S., Mustapa Kamal, S.M., and Abdul Rahman, R.Z., Effect of
	source casemate concentration and sonication amplitude on the stability and physical characteristics of homogenized account milk (2018) Journal of East
	Processing and Preservation $42(11)$ Article no $e13773$
	(https://doi.org/10.1111/ifpp.13773) (JCR Impact Factor: O3)
20	Ho, B.C.H, Kamal, S.M.M and Harun, M.R (2018) Extraction of eicosapentaenoic
	actu from Nannochloropsis gaditana using sub-critical water extraction, Malaysian Journal of Analytical Sciences 22 (4):619 625 (https://doi.org/10.17576/miss.2019
	2204-07)



	Research Grants (From year 2016 & as Head of Project)				
No	Project Title	Amount (RM)	Year	Source of Fund	
1	Feasibility study on application of forward	50,000	2019-2021	Matching	
	osmosis (FO) membrane for concentrating			Grant (UPM)	
2	Kinetics and mechanism of subcritical	101,442	Completed	FRGS	
	hydrolysis of waste products from bakery industry for oligosaccharides formation		2020	(MOE)	
3	Evaluation On The Production Of Sugars (Oligosaccharides) From Bakery Wastes Using Subcritical Water Treatment	25,000	Completed 2020	IPS UPM	
4	Evaluation on extraction of omega -3 FA from <i>Nannochloropsis sp.</i> using subcritical water technique	100,000	Completed 2018	IPB UPM	
5	Pressurized water extraction (PWE) for extracting polysaccharide from freshwater microalgae	20,000	Completed 2017	IPS UPM	
6	Evaluation of high hydrostatic pressure	92,000	Completed	FRGS	
	(HHP) extraction of bloactive compounds from microalgae		2016	(MOE)	

PhD & Master Student Supervision (from 2017)

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Nurfatimah bt Mohd	Sugar Recovery and Optimization From	Completed
	Thani	Bakery Leftovers via Subcritical Water	the Viva
		Hydrolysis.	(June
			2020)
2.		Evaluation on subcritical water extraction	
	Siti Maisurah Zakaria	extraction of phenolic compounds from	Completed
		Chorella sp. microalgae	
	Nurul Lina Mohamad	Modelling of xylitol production based on	Completed
3.	(GS31011)	xylose fermentation by Candida tropicalis	
	Jumardi Roslan	Optimization of enzymatic hydrolysis of	Completed
	(GS29724)	tilapia by-product and fractionation of the	
		protein hydrolysate using membrane	
		ultrafiltration	

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Nida Afzal	Evaluation of forward osmosis membrane process for passion fruit juice concentration	On-going