

MOHD NAZARUDIN ZAKARIA
(MyRA IMPACT ACTIVITIES)

(Please use this template as primary impact activities, other information please include as attachment)

Name :	Mohd. Nazarudin b. Zakaria
Faculty :	Faculty of Applied Sciences
Staff No :	297334
Grade of Position (VK7/DM54/DM52 etc)	DM51
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BASIC PROFILE

Lecturer DM45/DM46/DM51/DM52/DM53/DM54

Appointments	Date/Year of Appointment
Lecturer DM51	15 January 2014
Lecturer DM45	3 October 2011
Year of Birth :	3 June 1976

RESEARCH FUNDINGS *(State whether Principal/Co-Researcher)*

NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others) (Last Five Years)

	Research Project	Source	Total Funds	Begin Year	End Year
1	Principle Researcher, Physical, physicochemical and mechanical properties of bacterial cellulose fermented chitin membrane	GIP	RM20,000.00	2017	2018
2	Co-Researcher, The studies on environmentally safe biopolymer film derived from natural based algae (<i>Gracilaria Lichenoides</i>)	RIGS (UIAM)	RM20,000.00	2016	2017
3	Principle Researcher, Nanocomposite Material and Industrial Applications Reserach Group	Research Entity Initiative UiTM (REI)	RM32,000.00	2016	2019

4	Principle Researcher , Non-steady state moisture diffusional flow in homogenous pineapple leaves particleboard	Dana Kecemerlangan UiTM (RIF)	RM32,000.00	2012	2014
5	Principle Researcher , Nano particles modification of polyester gel-coat for anti-blistering features	RAGS	RM80,000.00	2014	2015
6	Co-Researcher , Green composite from coconut coir fibers and polyglycolid acid (PGA): waste to wealth	DANA LESTARI	RM20,000.00	2015	2017
7	Co-Researcher , Characterization and properties of cassava stem in relation to its adhesive bonding performance	Dana Kecemerlangan UiTM (RIF)	RM32,000.00	2014	2016
8	Co-Researcher , Quality assessment of kitchen cabinet particleboard panel fixing	Dana Kecemerlangan UiTM (RIF)	RM32,000.00	2012	2014
9	Co-Researcher , Fracture strength of screw fixing on particleboard due to over screw	RAGS	RM80,000.00	2013	2015

PUBLICATIONS (Only those indexed in IEEE/ISI/SCOPUS)

(Please ensure that you indicate whether papers are indexed in IEEE/ISI/Scopus, also indicate the impact factor if available)

PUBLICATIONS FOR 2017

- [1] M. N. Zakaria, A. R. Sukirah, O. Maizatunisa, J. Ayuni, K. Khalisanni, and R. Rosmamuhamadani (2017) Effect of growth times on the physical and mechanical properties of hydrophobic and oleophilic silylated bacterial cellulose membranes. *AIP Conference Proceedings 1885, 020160*.
- [2] S. N. Surip, F. M. A. Aziz, N. N. Bonnia, K. A. Sekak, and M. N. Zakaria (2017) Process parameter and surface morphology of pineapple leaf electrospun nanofibers (PALF). *AIP Conference Proceedings 1885, 020269*.

PUBLICATIONS FOR 2015

- [1] **Mohd. Nazarudin, Z**, Mohd Fakhharulzaman, R. Y., Sukirah, A. R., Nooramirah, K., Maizatunisa, O. and Shahril Anuar, B. (2015) Comparative Study of Celluloses from Biofilm-Forming Bacteria for Development of Cellulose-Reinforced Products. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*. Volume-5 Issue-4, (2015) pp. 20 – 22.

PUBLICATIONS FOR 2013

- [1] Yahya, M. F. Z. R., Masod, M. Y. and **Zakaria, M. N.** (2013) ATR-FTIR and spectrophotometric analysis of alpha-amylase bioactive paper. *IEEE Business Engineering and Industrial Applications Colloquium (BEIAC)*. Pp. 240-245.

- [2] Maizatul, O., Tan, K. H., Mohd Yusof, H., Halisanni, K., Ruzaidi, G., **Nazarudin, Z.**, Paridah, T. and Noor Azlina H. (2013) Effects of Multi-Walled Carbon Nanotubes (MWCNTS) On the Mechanical and Thermal Properties of Plasticized Polylactic Acid Nanocomposites. *Advanced Materials Research Vol. 812 (2013) pp 181-186.*
- [3] Mohd Ariff, J., Nurul Azman, M. T., **Mohd. Nazarudin, Z.** Masitah, A. K. and Nurul Syazana, Z. (2013) Non-steady State Moisture Diffusion Flow In Homogenous Pineapple Leaves Particleboard. *Advanced Materials Research Vols. 774-776 (2013) pp 279-283.*
- [4] **Mohd. Nazarudin, Z.**, Mohd Ariff, J., Masitah, A. K., Nur Shafiqah, O., Maizatul, O., Syaidatul Hazira, M. N., and Nurul Azman, M. T. (2013) The Effect of Alkaline Treatment on Water Absorption and Tensile Properties of Non-Woven Kenaf Polyester Composite. *Advanced Materials Research Vol. 812 (2013) pp 258-262.*
- [5] Masitah, A. K., Nurul Azman, M. T., Mohd Ariff, J., **Nazarudin, Z.** and Kamarulzaman, N. (2013) Mechanical Properties of Treated Kenaf (*Hibiscus cannabinus*) Polyester Composite at Different Alkaline Concentration. IEEE Business Engineering and Industrial Applications Colloquium (BEIAC). Pp. 240-245.

PUBLICATIONS FOR 2012

- [1] Maizatul, O., Ruzaidi, G., Khalisanni, K. and **Nazarudin, Z.** (2012) Morphology and Water Absorption Analysis on Single Fibre and Leaf of Typha Latifolia. *Advanced Materials Research Vol. 576 (2012) pp 492-495.*
- [2] Maizatunisa, O., Nor Azowa, I., Ruzaidi, C. M, **Nazarudin, Z.** and Zahurin, H. (2012) Biodegradability Analysis of KBF Reinforced Poly(lactic acid) Biocomposites. *Advanced Materials Research Vol. 576 (2012) pp 434-437.*

PUBLICATIONS FOR 2011

- [1] Crosky, A., Loo, M., **Zakaria, M. N.**, Parmar, P., Beehag, A. and Leong, K. H. (2011) Grading of Biofibres for Use in Natural Fibre Composites. *Advanced Materials Research, Vol. 410, pp 23-23.*

PUBLICATIONS FOR 2009

- [1] **Zakaria, M. N.**, Crosky, A. and Beehag, A. Physical and mechanical properties of kenaf technical fibers. *International conference on Kenaf and Allied Fibres (ICKAF) 1-3rd December 2009, Kuala Lumpur, Malaysia.*

PUBLICATIONS FOR 2007

- [1] Kamarulzaman Nordin, Shahril Anuar Bahari, **Mohd Nazarudin Zakaria** & Mohd Ariff Jamaludin. (2007). Environmental friendly sandwich panel using bamboo skin wastes as core material. *Journal of Engineering Materials. Vol. 334 – 335. Advances in Composite Materials and Structures.* Trans Tech Publication, Switzerland. ISBN-13 978-087849-427-9. Pp. 41 – 44.

