

CURRICULUM VITAE



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ACADEMIC QUALIFICATION

1. Ph.D. Polymer Science & Technology, 1988, UMIST, United Kingdom.
2. B.Sc. Polymer Science & Technology, 1984, UMIST, United Kingdom.

AREAS OF INTEREST

1. Mechanical, rheological and environmental behavior of fiber reinforced plastic composites and nanocomposites
2. Structure-processing-property relationship of particulate composites (both natural & minerals) and polymer blends
3. Development of bio-degradable plastics
4. Biomaterials for medical and dental applications

TEACHING EXPERIENCE

No.	Course Code	Course Name	Year
1.	EBP 202/3	Polymer Structure	2002 - 2005
2.	EBP306/3	Engineering Properties of Polymeric Materials	2003 - 2013
3.	EBP317/3	Advanced Polymer Composite	2003 – to date

PROFESSIONAL QUALIFICATION / MEMBERSHIP

1. Member, Institute of Materials Malaysia (IMM)
2. Member, Polymer Processing Society (PPS), USA
3. Editorial Board Member, Express Polymer Letters, Publisher: Budapest University of Technology and Economics

PUBLICATIONS

(5 Selected Publications: 2012-2015)

1. Chow, W.S.; Ng, K.; Ishak, Z.A.M.; Hashim, H.; Noor, S.N.F.M.; (2015), Human Gingival Fibroblasts Cell Viability of Poly(Lactic Acid) Powder Reinforced PMMA/Hydroxyapatite Biocomposites, International Journal Of Polymeric Materials And Polymeric Biomaterials, **64** (4),192-197
2. Tham, W.L.; Poh, B.T., Ishak, Z.A.M. Chow, W.S., (2014), Thermal Behaviors and Mechanical Properties of Halloysite Nanotube-Reinforced Poly(Lactic Acid)

- Nanocomposites, Journal Of Thermal Analysis And Calorimetry, **118** (3),1639-1647
3. Pang, Ming Meng; Pun, Meng Yan; Ishak, Zainal Arifin Mohd (2014), Thermal, Mechanical, and Morphological Characterization of Biobased Thermoplastic Starch From Agricultural Waste/Polypropylene Blends, Polymer Engineering And Science, **54**(6)1357-1365
 4. Tham, W. L.; Ishak, Z. A. Mohd; Chow, W. S. (2014), Water Absorption and Hydrothermal Aging Behaviors of SEBS-g-MAH Toughened Poly(lactic acid)/Halloysite Nanocomposites, Polymer-Plastics Technology And Engineering, **53**(5),472-480
 5. Taib, R. Mat; Hassan, H. M.; Ishak, Z. A. Mohd, (2014), Mechanical and Morphological Properties of Polylactic Acid/Kenaf Bast Fiber Composites Toughened with an Impact Modifier, Polymer-Plastics Technology And Engineering, **53**(2),199-206

RESEARCH GRANTS

(As Project Leader)

No.	Project Title	Amount (RM)	Year	Source
1.	Utilization Of Recycled Materials For The Production Of Wood-Plastic Composites Intended For Outdoor Applications		2006-2009	SCIENCEFUND
2.	Fiber - Matrix Interfacial Characterization and Kinetics of Moisture Absorbtion Study in Kenaf Fiber Reinforced Polypropylene Composites		2007-2010	FRGS
3.	Thermoplastic Composites Prepared From Non-Woven Fibers Mat		2008-2011	RU
4.	Kenaf : Sustainability Materials In Automotive Industry		2012-2017	LRGS
5.	Green Composite : Inspiring Sustainable Alternative for Cost Effective Materials (Materials)		2011-2016	RU Cluster

POSTGRADUATE STUDENT SUPERVISION

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Abdulali Bashir Ben Saleh	Toughening of epoxy resin with modified liquid natural rubbers and acrylonitrile-butadiene liquid rubbers s	Graduated
2.	Saied H. Mohamed	Mechanical, physical and biological properties of denture base poly(methyl methacrylate) filled ceramic fillers	Graduated
3.	Mat Uzir Wahit	Rubber toughened polyamide 6/polypropylene	Graduated

4.	Sukiman Kusmono	nanocomposites: mechanical, thermal and morphological properties Microstructural characterizations and mechanical properties of polyamide 6/polypropylene/organoclay nanocomposites	Graduated
5.	Shalom Solomon	Microstructure and fracture behaviours of short glass fibres/carbon fibres reinforced polyamide 6 hybrid composites	Graduated
6.	Ong Hui Lin	Nano-silica filled polymer based composites for automotive application	Graduated
7.	Seyed Mahmood Rezaei Darvishi	Preparation and characterization of modified PDMS for skin grafting	Graduated
8.	Phua Yi Jing	Mechanical, thermal, degradation and morphological behaviors of organo-montmorillonite filled poly(butylene succinate) nanocomposite	Graduated
9.	Mohamad Bashree Bin Abu Bakar	Effect of additives on mechanical, water absorption and natural weathering properties of wood flour filled polypropylene composites	Graduated
10.	Mohd Fadli Ahmad Rasyid	Mechanical, thermal and processing behaviour of flax reinforced Acrodur biocomposites	Ongoing
11.	Dody Ariawan	Microstructure-Properties Characterization of Kenaf Fiber Reinforced Unsaturated Polyester Produced by Resin Transfer Molding	Ongoing
12.	Muhamad Saifuddin Salim	Mechanical, thermal and processing behaviour of kenaf reinforced polyacrylic composites	Ongoing

MSc – Research (Main Supervisor)

No.	Name	Title	Status
1.	Lam Kok Meng	Morphological, mechanical and thermal properties of amorphous copolyester/polyoxymethylene blends	Graduated
2.	Yew Gim Hooi	Mechanical, water absorption & weathering properties of polylactic acid/rice starch composite	Graduated
3.	Nidal Wanis Elshereksi	Mechanical and environmental properties of denture base poly (methyl methacrylate) filled by barium titanate	Graduated
4.	Lim Wei Lee	Development of a cost effective, multicomponents degradable plastics, through the combination of polyethylene/poly(ϵ -caprolactone) and sago starch blends	Graduated
5.	Ainur Sharida	Development of a cost-effective, modified polypropylene composites with multicomponent filler reinforcement (talc and	Graduated

6.	Tay Hong Kang	kaolin) Durability studies of natural and glass fibre reinforced unsaturated polyester composites	Graduated
7.	Mohd Zharif Ahmad Thirmizir	Mechanical properties of kenaf fiber reinforced in-situ polymerized poly(butylenes terephthalate) composites	Graduated
8.	Jamal Moammar Mohamed Aldabib	Physical, mechanical and environmental properties of denture base poly(methyl methacrylate) filled with hydroxyapatite	Graduated
9.	Law Theng Theng	Mechanical, thermal and electrical properties of short glass and carbon fiber reinforced polycarbonate hybrid composites	Graduated
10.	Lee Jo May	Effects of environmental degradation and reprocessing on mechanical, thermal and morphological properties of kenaf fibre-filled poly(butylene succinate) composites	Graduated
11.	Muhamad Saifuddin Salim	Mechanical, physical and thermal properties of kenaf fiber reinforced epoxy composites produced by resin transfer moulding (rtm)	Graduated

AWARDS / RECOGNITION

No.	Type	Title	Awarding Authority	Level/Medal	Year
1.	Academic Recognition	JSPS Fellowship	Japanese Society for the Promotion of Science	International	1990
2.	Academic Recognition	Marie Curie Fellowship	European Union	International	1995
3.	Academic Recognition	Georg Forster Research Fellowship	Alexander von Humboldt Foundation	International	2005
4.	Academic/Research Recognition	Top Research Scientists Malaysia (TRSM)	Academy Sciences of Malaysia	National	2012

PROFESSIONAL SERVICES / CONSULTATION

Selected Major Activities

No.	Year	Title	Company
1.	2010	Development of kenaf and glass fibers hybrid pultruded composites for gratings and railing products.	Innovative Pultrusion Sdn. Bhd

2. 2011-2013 Non-woven kenaf fiber/polypropylene hybrid mat and composite panels for automotive applications Dr. Rahmatullah Holdings Sdn. Bhd
3. 2007-2010 Development of kenaf fiber reinforced epoxy composites using resin transfer molding Mukmin Enviro Lab Sdn Bhd.