



PUSAT PENYELIDIKAN POLIMER

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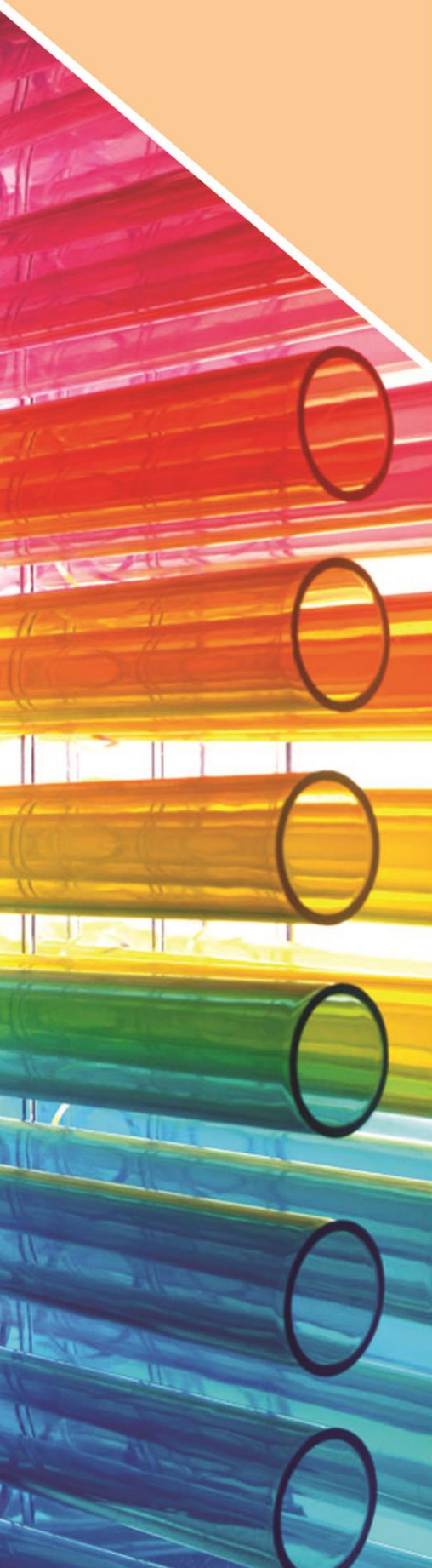
PUSAT PENYELIDIKAN POLIMER

VISI

Untuk menjadi pusat penyelidikan dan perkembangan/percambahan dalam bidang sains dan teknologi polimer, mengembeling sumber dan kepakaran dalam bidang sains dan teknologi polimer dan membina jalinan kerjasama di peringkat kebangsaan dan antarabangsa.

MISI

Bertekad menjadi kumpulan penyelidikan polimer tersohor di persada antarabangsa



1. LATAR BELAKANG

Nama Pusat Kecemerlangan Penyelidikan

Pusat Penyelidikan Polimer (PORCE)

Matlamat

Objektif PORCE ialah untuk memantap dan mengembangkan penyelidikan dalam bidang sains dan teknologi polimer, menjadi pusat rujukan dalam bidang sains dan teknologi polimer, dan menyediakan program latihan dan perundingan dalam aspek instrumentasi, analisis dan pengujian polimer.

Bidang tujahan

- Synthesis and chemical modifications of polymers
- Polymer electrolytes
- Polymer colloids
- Natural rubber based thermoplastic elastomers
- Polymer nanocomposites and nanostructured polymer composites
- Fiber reinforced polymer composites
- Renewable resources based biocomposites

Nama Ketua

Prof. Madya Dr. Khairiah Haji Badri

Penyelidik

- 1) Prof. Dr. Ibrahim Abdullah
- 2) Prof. Dr. Ishak Bin Ahmad
- 3) Prof. Dr. Rusli Bin Daik
- 4) Prof. Dr. Sahrim Haji Ahmad
- 5) Prof. Dr. Sarani Zakaria
- 6) Prof. Madya Dr. Azizan Bin Ahmad
- 7) Prof. Madya Dr. Chia Chin Hua
- 8) Prof. Madya Dr. Harun Haji Hamzah
- 9) Prof. Madya Dr. Khairiah Haji Badri
- 10) Prof. Madya Dr. Rozaidi Rasid
- 11) Dr. Azizah Binti Baharum @ Abdul Aziz
- 12) Dr. Farah Hannan Anuar
- 13) Dr. Mohamad Azwani Shah Mat Lazim
- 14) Dr. Mohd Suzeren Md Jamil
- 15) Dr. Rizafizah Binti Othaman
- 16) Dr. Sharina Abu Hanifah
- 17) Dr. Siti Fairus Mohd Yusoff
- 18) Dr. Suria Ramli

Penyelidik Bersekutu

- 1) Prof. Dr. Osman Bin Hassan, PPSKTM
- 2) Dr. Sudarshan Raman, JSB, FKAB

Kakitangan Bukan Akademik

Cik Azlin Mohmad Azman

Website

www.ukm.my/porce

2. PENYELIDIKAN**i. Senarai Penyelidikan**

BIL	KOD PROJEK/ PROJEK	KETUA PROJEK	PEMBIAYA	JUMLAH DANA (RM)
1.	AP-2013-006 Functional Biopolymer Composites	Rusli Daik	UKM	250,000.00
2.	PTS-2013-118 Penghayatan sains kimia melalui pendekatan sains tauhidik	Sharina Binti Abu Hanifah	UKM	10,000.00
3.	PTS-2013-103 Strategic Planning Towards the Development of Study and Research Facilities in the School of Chemical Sciences and Food Technology	Farah Hannan Anuar	UKM	8,000.00
4.	GUP-2012-085 Polymer Nanofluid from Polypyrrole and Deep Eutectic Ionic Liquid for Thermal Energy Storage	Rusli Daik	UKM	30,000.00
5.	UKM-GUP-2012-042 A Hydrophobic Coating Film from recycled polyethylene terephthalate waste and palm kernel oil-based polyester blends	Khairiah Badri	UKM	30,000.00
6.	GUP-2012-0-076 Green synthesis of modified hydrophobic empty fruit bunch (EFB) for water purification.	Suria Ramli	UKM	40,000.00
7.	DLP-2013-041 Nanobendalir Polimer sebagai Medium Penyimpan Haba	Rusli Daik	UKM	100,000.00
8.	DIP-2012-018 Enzyme and microbial biotransformation of plant fiber for the production of vanillic acid and vanillin	Khairiah Badri	UKM	100,000.00
9.	DIP-2-12-34 Antibacterial Regenerated Cellulose Products loaded with Silver nanoparticles, Graphene Oxide and Nanocrystalline Cellulose	Sarani Zakaria	UKM	200,000.00
10.	GGPM-2012-109 Palm Oils Diesel Microemulsion Fuels: Phase Behaviours and Their Properties	Suria Ramli	UKM	50,000.00

11.	GGPM-2012-070 Penyediaan dan pencirian kayu sintetik kalis air dan tahan kulat sebagai asas pembuatan lantai kayu moden	Azizah Baharum @ Abdul Aziz	UKM	40,000.00
12.	GGPM-2013-043 Potential of Polyactide Based Block Copolymer as Novel Solid Polymer Electrolyte	Farah Hannan Anuar	UKM	48,000.00
13.	HEJIM Industri-2013-022 Nata De Coco Based Hydrogel Via Microwave Irradiation Technique For Treatment Of Open And Burn Wound	Mohamad Azwani Shah Bin Mat Lazim	UKM	25,00.000
14.	HEJIM Industri-2013-0025 Preparation and characterization of Hybrid Kevlar/Kenaf Prepreg using biological Phenolic Resin for Bullet Proof Vest	Sarani Zakaria	UKM	25,000.00
15.	ETP-2013-026 Palm-Based Elastomeric Polyurethane as a Tool for Pipeline Inspection	Khairiah Badri	UKM	140,000.00
16.	ETP-2013-002 Cellulose Hydrogel and Graphene Cellulose Hydrogel Membrane For Water and Dye Absorption	Sarani Zakaria (ko)	UKM	227,800.00
17.	FRGS/1/2011/TK/UKM/02/16 Mekanisme Penyerapan Radiasi Neutron Konkrit Tetulang Gentian Prestasi Tinggi dengan Boron Karbida untuk Aplikasi Loji Reaktor Nuklear	Rozilah Hamid dan Prof. Dr. Sahrim Ahmad	KPT	235,500.00
18.	FRGS/1/2012/SG07/UKM/01/1 Mechanism of Adhesion of Polycaprolactone/Palm Kernel Oil based Polyurethane Adhesive to Alloy 2024	Sahrim Ahmad	KPT	133,000.00
19.	FRGS/2/2013/SG01/UKM/02/2 Kinetics and mechanism of acid hydrolysis of oil palm empty fruit bunch fibres into levulinic acid	Chia Chin Hua	KPT	109,700.00
20.	FRGS/1/2013/ST01/UKM/02/2 New diffusion models and investigating their roles in improving biosensor performance of some new acrylic based biosensor membranes	Sharina Binti Abu Hanifah	KPT	92,000.00
21.	FRGS/2/2013/SG06/UKM/02/2 Swelling Mechanism Study Of pH Responsive Biodegradable Cellulose Nanocrystals (CNC) Based Hydrogels Cross-Linked With Polyacrylic Acid For Drug Delivery	Ishak Bin Ahmad	KPT	127,000.00

22.	FRGS/1/2012/ST01/UKM/02/5 Thermally Conductive Adhesive From Chemically Modified-Cellulose And Nanoparticles Of Surfactant-Doped Polypyrrole	Rusli Daik	KPT	115,200.00
23.	FRGS/1/2013/SG06/UMT/02/1 Palm kernel oil-based polyester in fabricated polyurethane incorporated multi-walled carbon nanotubes for wound dressing application	Khairiah Badri (ko)	KPT	98,000.00
24.	ERGS/1/2013/TK07/UKM/03/1 Potential of Polylactide Based Block Copolymer as Novel Solid Polymer Electrolyte for Solar Cell Application	Farah Hannan anuar	KPT	113,000.00
25.	ERGS/1/2012/STG01/UKM/03/3 Application of Biomimetic Nanocatalyst in the Hydrolysis of Palm Kernel Cake (PKC) for the Production of Mannose and Oligo-Mannan	Chia Chin Hua	KPT	94,000.00
26.	ERGS/1/2012/STG05/UKM/01/4 Development Of Super Toughen Regenerated Cellulose Fibre Via Pre Cool Method	Sarani Zakaria	KPT	99,000.00
27.	ERGS/1/2011/STG/UKM/02/15 New macromolecules incorporated into nanocomposite optocal array capable of trace-level recognition of anionic pollutants	Sharina Binti Abu Hanifah	KPT	106,000.00
28.	ERGS/1/2013/STG01/UKM/02/5 Thermal Energy Storage Polymer Nanofluid From Dispersion Of Electroactive Polymer Nanoparticle In Deep Eutectic Ionic Liquid	Rusli Daik	KPT	128,000.00
29.	ERGS/1/2013/STG01/UKM/02/2 Chemical Conversion of Terephthalic Acid From Oil Palm Biomass to Polyethylene Terephthalate Via Diels Alder Reaction	Khairiah Badri	KPT	132,000.00
30.	ERGS/1/2013/TK03/UKM/02/6 Synthesis of Elastomeric Polymers for Robust Strengthening of Reinforced Concrete Structures subjected to Blast Effects	Khairiah Badri (ko)	KPT	130,000.00
31.	02-01-02-SF0821 A DNA Biosensor with dry-reagent for rapid detection of biohazard vibrio cholerae in flood disaster zones	Sharina Binti Abu Hanifah (ko)	MOSTI	265,000.00
32.	06-01-02-SF1057 Molecularly Imprinted Polymer With Controlled Porosity For Supercapacitor Electrode	Rusli Daik	MOSTI	98,250.00
33.	03-01-02-SF0949 A Hydrophobic Green Polyurethane for Anti-Weathering Coating On Fiberboard	Khairiah Badri	MOSTI	159,400.00

34.	03-03-01-SF0104 Development of hyperbranched Curable resin from palm oil	Khairiah Badri (ko)	MOSTI	233,000.00
35.	03-02-01-SF1000 Biobased Thermoplastic Composites from Thermoplastic Natural Rubber and Mengkuang Fiber	Ibrahim Abdullah	MOSTI	127,000.00
36.	ZF-2013-011 Oil palm ecological restoration and agro ecosystem services inventory (OPERASI)	Sharina Binti Abu Hanifah (ko)	KPT	20,000.00
37.	FRGS/2/2013/TK06/UKM/02/1 Penghasilan Hidrogen daripada Proses Pembelahan Molekul Air Menggunakan Mangkin Logam Terpilih	Rizafizah Othaman	KPT	111,400.00
38.	FRGS/1/2013/ST01/UKM/02/3 Catalytic Hydrogenation of Liquid Natural Rubber (LNR) and Their Self-Assembly Behavior	Ibrahim Abdullah	KPT	141,000.00
39.	FRGS/1/2011/SG/UKM/02/25 Synthesis of Biodegradable and Medicated microgels using Extracted pectin from Malaysian Fruits	Suria Ramli	KPT	210000.00
40.	PRGS/1/13/SG07/UKM/01/1 Developments of regenerated kenaf core cellulose superabsorbent containing graphene oxide via environmentally friendly precooling method	Sarani Zakaria	KPT	220,000.00
41.	LRGS/TD/2012/USM-UKM/PT/04 Fabrication and Characterizations of Embedded Self Reinforced Regenerated Kenaf Cellulose Fibres and Nano-Crystalline-Cellulose Treated with Nano Functional Groups.	Sarani Zakaria	KPT	1,843 0000.00
42.	UCIP150 Production of Natural Oil Polyurethane Polyols	Khairiah Badri	Cradle Fund Sdn Bhd	150,000.00

3. PENERBITAN

i. Makalah Dalam Jurnal Terindeks (ISI/SCOPUS)

BIL	PENGARANG	JUDUL KARYA	TAJUK JURNAL
1.	Sajab, M.S., Chia, C.H., Zakaria, S. , Khiew	Cationic and anionic modifications of oil palm empty fruit bunch fibres for the removal of dyes from aqueous solutions,	Bioresource Technology 128: 571-577
2.	Zakaria, S. , Liew, T.K., Chia, C.H. , Pua, F.L., Fan, S.P., Roslan, R., Amran, U.A., Potthast, A., Rosenau, T., Liebner, F.	Characterization of Fe ₂ O ₃ /FeOOH catalyzed solvolytic liquefaction of oil palm empty fruit bunch (EFB) products,	Journal of Bioremediation & Biodegradation 84

3.	Tan, S.K., Ahmad, S., Chia, C.H. , Mamun, A., Heim, H.P A .	Comparison study of liquid natural rubber (LNR) and liquid epoxidized natural rubber (LENR) as the toughening agent for epoxy,	American Journal of Materials Science 3:55-61
4.	Pua, F.L., Sajab, M.S., Chia, C.H. , Zakaria, S. , Rahman, I.A., Salit,	Alkaline-treated cocoa pod husk as adsorbent for removing methylene blue from aqueous solutions,	Journal of Environmental Chemical Engineering 1:460-465
5.	Pua, F.L., Zakaria, S. , Chia, C.H. , Fan, S.P., Rosenau, T., Potthast, A., Liebner, F.	Solvolytic liquefaction of oil palm empty fruit bunch (EFB) fibres: Analysis of product fractions using FTIR and pyrolysis-GCMS,	Sains Malaysiana 42(6): 793-799
6.	Chia, C.H. , Razali, N.F., Sajab, M.S., Zakaria, S. , Huang, N.M., Lim, H.N.	Methylene Blue Adsorption on Graphene Oxide,	Sains Malaysiana 42 (6): 819-826
7.	Vijay Kumar, S., Huang, N.M., Lim, H.N., Zainy, M., Harrison, I., Chia, C.H.	Preparation of highly water dispersible functional graphene/silver nanocomposite for detection of melamine.	Sensors and Actuators 181: 885-893
8.	Vijay Kumar, S., Huang, N.M., Lim, H.N., Marlinda, A.R., Harrison, I., Chia, C.H. 2013.	One-step size-controlled synthesis of functional graphene oxide/silver nanocomposites at room temperature,	Chemical Engineering Journal 219: 217-224
9.	Chin, S.X., Chia, C.H. , Zakaria, S.	Production of reducing sugar from oil palm empty fruit bunch (EFB) cellulose fibres via acid hydrolysis,	BioResources 8: 785-794
10.	Golsheikh, A.M., Huang, N.M., Lim, H.N., Chia, C.H. , Harrison, I., Muhamad, M.R.	One-pot hydrothermal synthesis and characterization of FeS ₂ (Pyrite)/graphene nanocomposites	Chemical Engineering Journal 218: 276-284
11.	Sharina Abu Hanifah , Normah Hamzah & Lee Yook Heng.	Rapid Synthesis of Magnetic Microspheres Poly(Glycidyl Methacrylate-co-Styrene) by Photopolymerization,	Sains Malaysiana
12.	M. Imperiyka, A.Ahmad, S.A.Hanifah , N.S. Mohamed, M.Y.A. Rahman .	Investigation of plasticized UV-curable glycidyl methacrylate based solid polymer electrolyte for electrochemical cell (PEC) application,	International Journal of Hydrogen Energy
13.	M. Imperiyka, A.Ahmad, S.A.Hanifah , M.Y.A. Rahman.	Potential of UV-Curable Poly(Glycidyl Methacrylate-co-Ethyl Methacrylate)-based solid polymer electrolyte for Lithium Ion Battery Application,	International Journal of Electrochemical Science
14.	Imperiyka, M.; Ahmad, A.; Hanifah, S.A; Rahman, M.Y.A.	Investigation of Poly(Glycidyl Methacrylate-co-ethyl methacrylate)(GMA-co-EMA)(90/10)-based electrolytes in lithium battery application,	Advanced Science Letters
15.	Imperiyka, M.; Ahmad, A.; Hanifah, S.A; Rahman, M.Y.A.	Role of salt concentration lithium perchlorate on ionic conductivity and structural of (glycidyl methacrylate-co-ethyl methacrylate)(70/30)based on a solid polymer electrolyte,	Advanced Materials Research
16.	Suria Ramli, Azwani M. Lazim , Siti Aishah Hasbullah.	Changes on the Solid Fat Content of Palm Oil/Sunflower Oil Blends via Interesterification,	The Malaysian Journal of Analytical Sciences
17.	Azwan Mat Lazim , Mohd Zuli Jaafar, Phang Wei Shong, Suzereen Jamil.	Penentuan kualiti minyak masak dan lemak komersial menggunakan teknik kimometik,	The Malaysian Journal of Analytical Sciences
18.	Azwan Mat Lazim , Musa Ahmad, Zuriati Zakaria, M. Suzeren Jamil, Suria Ramli, Faiz Zainuddin, Mohd Nasir Taib, M. Nasir Mat Arip.	Kajian awal penggunaan jaringan neural tiruan (ANN) bagi menentukan nilai peroksida tiga minyak sawit komersil berdasarkan spektrum FTIR ,	The Malaysian Journal of Analytical Sciences

19.	Azwan Mat Lazim , Farahain Mokhtar, Siti Fairus Mohd Yusoff, Ishak Ahmad, Adil Hakam	Synthesis and characterization of pH sensitive hydrogel using extracted pectin from dragon fruit peel,	Malaysian Journal Analytical Sciences
20.	Madihah Ahmad, Bohari M Yamin and Azwan Mat Lazim .	A study on dispersion and characterisation of alpha-mangostin loaded pH sensitive microgel systems,	Chemistry Central Journal
21.	Rumaisa Nordin, Azwani Mat Lazim , Atisya Rohadi, Siti Aishah Hasbullah.	Preparation and activation of spiropyran-merocyanine system,	Malaysian Journal of Analytical Sciences
22.	Hur Munawar Kabir Mohd, Ainee Fatimah Ahmad, Faizal Mohamed, NurSaidatul Syafadillah Kamaruzaman, Ng Wei Ling, Poh Roe Jin, Muhamad Samudi Yasir, Mohd Hafez Mohd Isa, Suria Ramli and Shahidan Radiman.	The effect of gamma irradiation on the chemical structure and surface characteristics of dipalmitoylphosphatidylcholine (DPPC).	The Malaysian Journal of Analytical Sciences, 17(3):454-460
23.	Zainuddin, S. Y. Z.; Ahmad, I. ; Kargarzadeh, H.	Cassava starch biocomposites reinforced with cellulose nanocrystals from kenaf fibers,	Composite Interfaces
24.	Nurul Munirah Abdullah & Ishak Ahmad .	Fire-retardant Polyester Composites from Recycled Polyethylene Terephthalate (PET) Wastes Reinforced with Coconut Fibre,	Sains Malaysiana
25.	Noor Afizah Rosli, Ishak Ahmad, Ibrahim Abdullah .	Isolation and characterization of cellulose nanocrystals from agave angustifolia fibre,	BioResources
26.	Serawati Jafirin, Ishak Ahmad, Azizan Ahmad .	Potential Use of Cellulose from Kenaf in Polymer Electrolytes Based on MG49 Rubber Composite,	BioResources
27.	Nurul Munirah Abdullah and Ishak Ahmad .	Potential of Using Polyester Reinforced Coconut Fiber Composites Derived from Recycling Polyethylene Terephthalate (PET) Waste,	Fibers and Polymers
28.	Siti Yasmine Zanariah Zainuddin, Ishak Ahmad , Hanieh Kargarzadeh, Ibrahim Abdullah , Alain Dufresne.	Potential of using multiscale kenaf fibers as reinforcing filler in cassava starch-kenaf biocomposites,	Carbohydrate Polymers
29.	Chi Hoong Chan, Chin Hua Chia, Sarani Zakaria, Ishak Ahmad , Alain Dufresne.	Production and characterisation of cellulose and nano-crystalline cellulose from kenaf core wood,	Bioresources
30.	Nor Liyana Ahmad, Ishak Ahmad .	Pengekstrakan dan Pencirian Nanoselulosa daripada Serabut Kelapa,	Malaysian Journal of Analytical Sciences
31.	Rizafizah Othaman,	Special Issue on Emerging Polymers for Novel Applications (Editorial), International)	Journal of Materials Engineering Innovation (IJMatEI)
32.	Ghalib, H., Abdullah, I., Daik, R.	Electrical Conductivity of Anionic Surfactant-Doped Polypyrrole Nanoparticles Prepared via Emulsion Polymerization,	Pertanika Journal of Science and Technology
33.	Sjamsiah, Nazaruiddin Ramli, Rusli Daik , Mohd. Ambar Yarmo.	Penentuan Sifat Kefungsian Serbuk Rumpai Laut Kappaphycus Alvarezii,	The Malaysian Journal of Analytical Sciences
34.	Sarifah Fauziah S Draman, Rusli Daik , Said M El-Sheikh, Famiza A Latif .	Nanocomposites of cellulose-based adhesive and toluenesulfonic acid-doped polypyrrole prepared via colloidal dispersion,	Journal of Reinforced Plastics and Composites
35.	Mohd Wahid Samsudin, Rusli Daik , Azlan Abas, T. Subahan Mohd Meerah & Lilia Halim	Environmental Learning Workshop: Lichen as Biological Indicator of Air Quality and Impact on Secondary Students` Performance,	International Education Studies

36.	Satriani Aga Pasma, Rusli Daik , Mohamad Yusof Maskat, and Osman Hassan.	Application of Box-Behnken Design in Optimization of Glucose Production from Oil Palm Empty Fruit Bunch Cellulose,	International Journal of Polymer Science
37.	Hassan Ghalib, Ibrahim Abdullah, Rusli Daik.	Electrically Conductive Polystyrene/Polypyrrole Nanocomposites Prepared via Emulsion Polymerization,	Polymer-Plastics Technology and Engineering
38.	Shamsuri, A.A., Daik, R.	Utilization of an Ionic Liquid/Urea Mixture as a Physical Coupling Agent for Agarose/Talc Composite Films,	Materials
39.	Amamer Musbah Redwan and Khairiah Haji Badri.	Properties of Polyurethane composites by mechanical and fire resistivity.	International Journal of Chemical and Environmental Engineering, 4(1): 45-48
40.	Tang Pei Ling, Osman Hassan, Khairiah Badri , Mohd Yusof Maskat and Wan Aida Wan Mustapha.	Sugar Recovery of Enzymatic Hydrolysed Empty Fruit Bunch Fiber By Chemical Pretreatment.	Cellulose 20:3191–3203 (DOI: 10.1007/s10570-013-0033-1)
41.	Su'ait, M.S., Ahmad, A., Badri, K.H. , Mohamed, N.S., Rahman, M.Y.A., Azanza, C.L. Ricardo & Scardi, P.	The Potential of Polyurethane Bio-based Solid Polymer Electrolyte for Photoelectrochemical Cell Application	International Journal of Hydrogen Energy, 1:1-13-08.117
42.	Kamarul A.M.S., Sohif, M., Khairiah, H.B. & Muhammad, FMZ.	Effects of Loading Percentage of Polyurethane in Lightweight Concrete, 357-360:1082-1085. DOI 10.4028/www.scientific.net/AMM.	Applied Mechanics and Materials, 357-360.1082-
43.	Hassan, O., Tang, P.L., Maskat, M. Y., Badri, K.H. , Jahim, J., & Mahadi, M. N.	Optimisation Of Pretreatments For The Hydrolysis Of Oil Palm Empty Fruit Bunch Fiber (EFBF) Using Enzyme Mixtures,	Biomass
44.	Wong Chee Sien and Khairiah Haji Badri.	Thermal, Mechanical and Chemical Analyses Of Rapid and Self-Cured Prepolymerized Polyurethane Coatings,	Applied Mechanics and Materials, 313-314:227-231 DOI 10.4028/www.scientific.net/AMM.313-314.227and Bioenergy, 56: 137–146
45.	Mek Zah Salleh, Khairiah Haji Badri , Mohd Hilmi Mahmood & Sahrim Haji Ahmad.	Synthesis of EB-curable hyperbranched polyurethane acrylate from palm oil oleic acid,	International Journal of Materials Engineering Innovation 4(1): 65-78
46.	Khairiah Haji Badri , Ly Iliyana Mohd Dawi & Nur Ashikin Abd Aziz.	Rigid Polyurethane Foam from Glycolysed Polyethylene Terephthalate Waster Dissolved in Palm-based Polyol,	Sains Malaysiana, 42(4): 449-457
47.	E.M. Fahmi, A. Ahmad , N.N. Izyan, H. Hamzah, M.Y.A. Rahman.	Preparation and characterization of PEO-NiO-LiCF ₃ SO ₃ composite polymer electrolyte.	Int. J. Electroact. Mater. 1 (2013),1–8
48.	S. Rudzhiah, N.S. Mohamed, A. Ahmad.	Conductivity and Structural Studies of Poly(vinylidene fluoride co-hexafluoropropylene)/Polyethylmethacrylate Blend Doped with NH ₄ CF ₃ SO ₃ .	Int. J. Electrochem. Sci., 8: 421 – 434
49.	Nadhratun Naiim Mobarak, Nazaruddin Ramli, Azizan Ahmad , MdPauzi Abdullah.	Development of Carboxymethyl Chitosan Based Green Polymer Electrolyte.	Journal of Biobased Materials and Bioenergy. 7, 267-268 (2013) 2
50.	N. N. Mobarak, A. Ahmad , M. P. Abdullah, N. Ramli, M.Y.A. Rahman.	Conductivity enhancement via chemical modification of chitosan based green polymer electrolyte.	Electrochimica Acta 92, 161–167
51.	N. Ataollahi, A. Ahmad , H. Hamzah, M.Y.A. Rahman, N.S. Mohamed.	Ionic Conduction of Blend Poly (Vinylidene Fluoride-Hexafluoro Propylene) and Poly (Methyl Methacrylate)-Grafted Natural Rubber Based Solid Polymer Electrolyte.	Int. J. Electrochem. Sci., 8 :7 875 – 7884.

52.	Mohd Bijarimi; Sahrim Ahmad ; Rozaidi Rasid.	2013. Mechanical, thermal and morphological properties of poly(lactic acid)/natural rubber nanocomposites,	Journal of Reinforced Plastics and Composites
53.	Mothanna Sadiq Al-Qubaisi; Abdullah Rasedee; Moayad Husein Flaifel; Sahrim Hj Ahmad ; Samer Hussein-Al-Ali; Mohd Zobir Hussein; Zulkarnain Zainal; Fatah H. Alhassan; Yun H. Taufiq-Yap; Eltayeb E. M. Eid.	Induction of apoptosis in cancer cells by NiZn ferrite nanoparticles through mitochondrial cytochrome C release,	International Journal of Nanomedicine
54.	N.B. Ibrahim; S.M. Al-Shomar; Sahrim Hj. Ahmad .	Effect of aging time on the optical, structural and photoluminescence properties of nanocrystalline ZnO films prepared by a sol-gel method,	Applied Surface Science
55.	Mothanna Sadiq Al-Qubaisi; Abdullah Rasedee; Moayad Husein Flaifel; Sahrim H.J. Ahmad ; Samer Hussein-Al-Ali; Mohd Zobir Hussein; Eltayeb E.M. Eid; Zulkarnain Zainal; Mohd Saeed; Muna Ilowefah;	Cytotoxicity of nickel zinc ferrite nanoparticles on cancer cells of epithelial origin,	International Journal of Nanomedicine
56.	Yusri Helmi Muhammad; Sahrim Ahmad .	Mechanical and thermal properties of glass fiber-reinforced epoxy composite with matrix modification using liquid epoxidized natural rubber,	Journal of Reinforced Plastics and Composites
57.	Mou'Ad A. Tarawneh; Sahrim H.J. Ahmad ; K.A. Ku Zarina; Ibrahim N. Hassan; Yu Lih Jiun; Moayad Husein Flaifel; A.R. Shamsul Bahri.	Properties enhancement of TPNR-MWNTs-OMMT hybrid nanocomposites by using ultrasonic treatment,	Sains Malaysiana
58.	Mou'ad A. Tarawneh; Sahrim Hj Ahmad ; SeYong EhNoum; Kin-Tak Lau.	Sonication effect on the mechanical properties of MWCNTs reinforced natural rubber,	Journal of Composite Materials
59.	Mou'ad A. Tarawneh, Dalila Shahdan, and Sahrim Hj Ahmad .	Investigation on the Effect of NiZn Ferrite on the Mechanical and Thermal Conductivity of PLA/LNR Nanocomposites,	Journal of Nanomaterials
60.	Moayad Husein Flaifel; Sahrim Hj Ahmad ; Aziz Hassan; Shamsul Bahri; Mou'Ad A. Tarawneh; Lih-Jiun Yu.	Thermal conductivity and dynamic mechanical analysis of NiZn ferrite nanoparticles filled thermoplastic natural rubber nanocomposite,	Composites Part B: Engineering
61.	Abdullah A. Mamun; Hans-Peter Heim; Dalour Hossen Beg; Tan S. Kim; Sahrim H. Ahmad .	PLA and PP composites with enzyme modified oil palm fibre: A comparative study,	Composites Part A: Applied Science and Manufacturing
62.	Norita Hassan*, Sahrim Ahmad , Norhamidi Muhamad, Mohd Afian Omar & Noor Azlina Hassan.	Thermoplastic Natural Rubber (Tpnr) As A Backbone Polymer For Metal Injection Molding,	Sains Malaysiana 42(12)(2013): 1787–1791
63.	N.B. Ibrahim*, S.M. Al-Shomar & S.H. Ahmad.	Effect Of Annealing Temperature On The Structural And Optical Properties Of Nanocrystalline Zno Thin Films Prepared By Sol-Gel Method,	Sains Malaysiana 42(12)(2013): 1781–1786
64.	M.Z. Muzakkar; S. Ahmad; M.A. Yarmo; A. Jalar; M. Bijarimi.	Shear strength of single lap joint aluminium-thermoplastic natural rubber (Al-TPNR) laminated composite,	Journal of Physics: Conference Series
65.	Muhammad Zain Norazwani; Sahrim Hj Ahmad; Ernie Suzana Ali.	Green polyurethane adhesive bonding of aluminum: Effect of surface treatments,	Applied Mechanics and Materials
66.	Firuz Zainuddin; Sahrim Ahmad; Rozaidi Rasid; Syed Nuzul Fadzli Syed Adam.	Flexural analysis of polyurethane foam and sandwich composite foam via experimental and finite element Cmethods,	Advanced Materials Research

67.	Mimi Azlina Abu Bakar; Sahrim Ahmad; Wahyu Kuntjoro; Salmiah Kasolang.	Effect of carbon fibre ratio to the impact properties of hybrid kenaf/carbon fibre reinforced epoxy composites,	Applied Mechanics and Materials
68.	Nor Azwin Ahad; Sahrim Hj Ahmad; Norazwani Muhammad Zain.	Effects of NR and liquid NR loading on swelling behaviour of TPU/NR blends,	Advanced Materials Research
69.	Syazana Ahmad Zubir; Sahrim Ahmad; Ernie Suzana Ali.	Palm oil polyol/ polyurethane shape memory nanocomposites.	Applied Mechanics and Materials
70.	Nor Azwin Ahad; Sahrim Hj Ahmad; Norazwani Muhammad Zain.	Effects of mixing parameters on tensile strength of TPU/NR blends,	Applied Mechanics and Materials
71.	Mouad A Tarawneh; Sahrim Hj Ahmad.	The effect of ultrasonic treatment and gamma radiation on the thermal conductivity of TPNR hybrid nanocomposites,	Advanced Materials Research

ii. Makalah Dalam Prosiding

BIL	NAMA PENGARANG	JUDUL KARYA	PROSIDING
1.	N. Ataollahi, A. Ahmad , H. Hamzah, M.Y.A. Rahman, N.S. Mohamed.	Ionic Conduction of Blend Poly (Vinylidene Fluoride-Hexafluoro Propylene) and Poly (Methyl Methacrylate)-Grafted Natural Rubber Based Solid Polymer Electrolyte.	Int. J. Electrochem. Sci., 8 :7 875 – 7884.
2.	M. Y. Zulkafli, N. K. Othman, A. M. Lazim and A. Jalar.	Inhibitive effects of palm kernel oil on carbon steel corrosion by alkaline solution,	AIP Conference Proceedings doi: 10.1063/1.4858767,
3.	Nor Rabbi'atul 'Adawiyah Norzali, Khairiah Haji Badri , and Ishak Ahmad.	Physicochemical properties of phosphate ester from palm kernel oil.,	AIP Conference Proceedings 1571: 890; doi: 10.1063/1.4858767
4.	Adilah Mat Ali; Sahrim Hj. Ahmad.	Effect of processing parameter and filler content on tensile properties of multi-walled carbon nanotubes reinforced polylactic acid nanocomposite,	AIP Conference Proceedings
5.	Nor Azwin Ahad; Sahrim Hj Ahmad.	Effects of mixing temperature on mechanical properties of TPU/NR blends,	AIP Conference Proceedings
6.	Dalila Shahdan; Sahrim Hj Ahmad.	Effect of filler loading of nickel zinc ferrite on the tensile properties of PLA nanocomposites,	AIP Conference Proceedings
7.	Mohd Nazry Salleh, Sahrim Ahmad, Mohd Hafizuddin Ab Ghani, and Ruey Shan Chen.	Effect of compatibilizer on impact and morphological analysis of recycled HDPE/PET,	AIP Conference Proceedings
8.	Syuhada Ramli, C. T. Ratnam, S. H. Ahmad, and Nurul Athirah.	Study on thermal properties and crystallization behavior of electron beam irradiated,	AIP Conference Proceedings
9.	Lim Keuw Wei, Wong Kwee Ing, Khairiah Haji Badri , and Wong Chong Ban.	Formation of protein complex with the aid of polyethylene glycol for deproteinized natural rubber latex. 1571: 871;	AIP Conference Proceedings doi: 10.1063/1.4858764
10.	Farah Nadia Daud, Azizan Ahmad , and Khairiah Haji Badri .	Preparation and characterization of plasticized palm-based polyurethane solid polymer electrolyte.	AIP Conference Proceedings 1571:775; doi: 10.1063/1.4858749
11.	Kamarul Aini Mohd Sari, Sohif Mat, Khairiah haji Badri , Muhammad Fauzi Mohd Zain.	Characteristics of Lightweight Concrete Filled with Palm-Based Polyurethane, 7 th WSEAS International Conference on Renewable Energy Sources, Renaissance Kuala Lumpur, 1-4 April 2013	Proceeding of WSEAS-RES'13pp 214-218

12.	N. Ayuni A. Apandi, N. A. Salfarina A. Razak, Mustika Masri, S. F. Yusoff, Azwan Mat Lazim .	A preliminary study on gum arabic as a binder in preparation of starch based edible plastic,	International Journal on Advance Science Engineering Information Technology
13.	Muhammad Yusri Zulkafli, Norinsan Kamil Othman, Azwan Mat Lazim , Azman Jalar.	Effect of Carboxylic Acid from Palm Kernel Oil for Corrosion Prevention,	International Journal of Basic & Applied Sciences
14.	Norzali N. R. A. , Badri, K. H., I. Ahmad & S. P. Ong.	Phosphate Esters From Epoxidized Palm Kernel Oil And Soybean Oil, 13-14 November 2013, Sunway Putra, Kuala Lumpur,	In proceedings of 1st International conference on the Science & Engineering of Materials
15.	Mek Zah Salleh, Khairiah Badri , Rida Tajau and Nik Ghazali Salleh.	The Production Of Green Polymer - Hyperbranched Curable Palm Oil Oleic Acid.10-12 November 2013, Penang.	In proceedings of 3rd International Conference on the Advancement of Materials and Nanotechnology 2013 (ICAMN III, 2013).
16.	Lim Keuw Wei, Khairiah Haji Badri , Wong Chong Ban.	An optimization study on the inclusion of Aluminum hydroxide in natural rubber latex as a deprotenization agent. 3-5 October 2013.	In proceedings of APRC2013: The 1st Asia Pacific Rubber Conference 2013, Surat Thani Thailand
17.	Noor Afizah Rosli, Ishak Ahmad, Ibrahim Abdullah, Farah Hannan Anuar .	Physical Properties of Agave Cellulose Graft Polymethyl Methacrylate.	AIP Conference Proceedings. 2013. 1571. 732-737.
18.	Mohd Razali Shamsuddin, Siti Norfatimah Fauzee, Farah Hannan Anuar, Ibrahim Abdullah, Rizafizah Othaman .	Modification of Cellulose by Polymethyl Methacrylate Grafting for Membrane Applications.	Jurnal Teknologi. 2013. 65(2). 47-53.

iii. **Buku**

BIL	NAMA PENGARANG	TAJUK BUKU
1.	Azlin Mohamad Azman, Mohd Sukor Su'ait.	PORCE Annual Profile Book (2010-2011)
2.	Azlin Mohamad Azman, Azizah Baharum@ Abd Aziz, Khairiah Haji Badri, & Ishak Ahmad,	Progress in Polymer Research, Volume II, Bangi: 262 ms,
3.	Hong Ngee Lim, Nay Ming Huang, Chin Hua Chia , Ian Harrison.	Inorganic Nanostructures Decorated Graphen. In Ferreira, S.O. (Ed.). Advanced Topics on Crystal Growth (pp. 1-26.)
4.	Mou'ad A. Tarawneh and Sahrim Hj. Ahmad.	Nanotechnology and Nanomaterials » "Syntheses and Applications of Carbon Nanotubes and Their Composites"-Characterization and Morphology of Modified Multi-Walled Carbon Nanotubes Filled Thermoplastic Natural Rubber (TPNR) Composite Intech.
5.	S.H.Ahmad and Moayad Husein Flaifel.	Magnetic Polymeric Nanocomposite Materials: Basic Principles, Preparations and Microwave Absorption Application". Nova Science Publisher

iv. Paten

BIL	TAJUK PATEN	KETUA PROJEK	NO PATEN
1.	Process for preparing Natural oil-based polyesters and polyamides	Khairiah Haji Badri	MY 145094-A
2.	Process for the production of wood composites from renewable natural resources	Khairiah Haji Badri	MY-135552-A
3.	Fluorescence sensing of phosphate ions using methacrylate-morin composite materials	Sharina Abu HAnifah	UKM3.2.29/108/2/726
4.	Bioplastic packaging from carragenan/ clay-cellulose nanocrystals hybrid composites (BioPlast)	Ishak Ahmad	UKM3.2.29/108/2/708
5.	Palm oil-based polyurethane prepolymers	Khairiah Haji Badri	UKM3.2.29/108/2/500
6.	Lightweight concrete composite from renewable natural resources	Khairiah Haji Badri, Kamarul Aini Mat saad, Sohif Mat, Muhammad Fauzi Mohd Zain	UKM3.2.29/108/2/537
7.	Batch reactor for polyesterification and polycondensation of biopolyol from natural oils	Khairiah Haji Badri	UKM3.2.29/108/2/85
8.	Biological-based Phenolic Resin	Sarani Zakaria	MY-147156-A
9.	A Method of Extracting Oil From A Lignin	Sarani Zakaria and Chia Chin Hua	MY-147898-A
10.	Method of Liquefying Soda Lignin Obtained From Empty Fruit Bunch (EFB) into Solvolytic Oil	Sarani Zakaria	P12010003959
11.	Magnetic Rubber Wood-Sarani Zakaria	Sarani Zakaria	UI2010002810

4. PASCASISWAZAH

i. Graduan 2013

BIL	NAMA	PENYELIA UTAMA	TAJUK TESIS	GRADUAN
1.	Hanieh Kargarzadeh	Prof. Dr. Ishak Ahmad	Pembangunan nanokomposit polyester/ getah asli reaktif yang diperkuat oleh selulosa nanohablur daripada gentian kenaf	PhD
2.	Teh Chin Hoong	Prof. Dr. Rusli Daik	Sintesis Dan Pencirian Oligomer Terbitan Tiofena-Fenilena Untuk Kegunaan Diod Pemancar Cahaya	PhD
3.	Hassan Ghalib	Ibrahim Abdullah, Rusli Daik	Synthesis of surfactant-doped polypyrrole nanoparticles and its blends with polystyrene and natural rubber via emulsion polymerization	PhD
4.	Nurhidayaty Mukhtar	Sahrim Haji Ahmad dan Ahmad Nazlim Yusof	Sifat Magnet dan Elektromagnet Gelombang Mikro bagi Nanokomposit Ferit Barium-Getah Asli Termoplastik	PhD
5.	Engku Zaharah Engku Zawawi	Sahrim Haji Ahmad dan Rozaidi Rasid	Processing, Mechanical and Fracture Properties of Organoclay Rubber Toughened Polyamide Nanocomposites	PhD

6.	Mohd Bijarimi Mat Piah	Sahrim Haji Ahmad dan Rozaidi Rasid	Mechanical, Thermal and Morphological Properties of Toughened PLA	PhD
7.	Ku Zarina Ku Ahmad	Sahrim Haji Ahmad dan Rozaidi Rasid	Crack propagation and fracture resistance behavior under high impact loading in pmma-epox- organoclay nanocomposites for military applications	PhD
8.	Haw Choon Yian	Prof. Madya Dr. C.H. Chia	Superparamagnetic Magnetic Nanoclusters for Biomedical Applications	PhD
9.	Nurain Binti Johar	Prof. Dr. Ishak Ahmad	Pembangunan biokomposit kanji diperkuat selulosa nanohablur daripada sekam padi	Sarjana
10.	Wan Nurul Fatimah Wan Yacob	Prof. Dr. Rusli Daik	Kesan Gliserol Tert-Butil Eter Sebagai Kosurfaktan Terhadap Rajah Fasa Ternari Bagi Mikroemulsi Berasaskan-Sawit	Sarjana
11.	Siti Munirah Ibrahim	Prof. Madya Dr. Khairiah Haji Badri	Pengekstrakan lignin, selulosa dan hemiselulosa melalui kaedah gliserolisis	Sarjana
12.	Wendy Wong Kwee Ing	Prof. Madya Dr. Khairiah Haji Badri	Kesan Penambahan Polietilena Glikol Dengan Berat Molekul Pelbagai Terhadap Kandungan Protein Lateks Getah Asli	Sarjana
13.	Sivanesan A/L Appadu @ Applasamy	Prof. Dr. Sahrim Hj. Ahmad	A Study On The Effects Of Electron Beam Irradiation On The Magnetic And Microwave Absorbing Properties Of Nickel Iron Oxide-Thermoplastic Natural Rubber Nanocomposite.	Sarjan
14.	Noorhafanita Binti Norhakim	Prof. Dr. Sahrim Hj. Ahmad	Nanokomposit Epoksi Berpenguat Getah Berpungsi Grafir	Sarjana
15.	Syuhada Binti Ramli	Prof. Dr. Sahrim Hj. Ahmad	Mechanical, Thermal, And Morphological Properties Of Ethylene Vinyl Acetate/Waste Tire Dust (EVA/WTD) Blends	Sarjana

ii. Sarjana (Sedang Maju)

BIL	NAMA	PENYELIA UTAMA	TAJUK TESIS
1.	Noriah binti Abdul Rahman	Dr. Sharina Abu Hanifah	Modifikasi kitosan untuk penyediaan polimer rangkaian saling menembus (IPN)
2.	Amalina Ahmad	Dr. Sharina Abu Hanifah	Sensor Fosfat berasaskan pemegungan Aluminium-Morin dalam mikrosfera poli(glisidil metakrilat)
3.	Siti Zulaikha Mazlan	Dr. Sharina Abu Hanifah	Modifikasi mikrosfera polimer berasaskan metakrilat-akrilat untuk aplikasi biosensor tatzazina
4.	Mohammad Faris Mohammad Esa	Dr. Sharina Abu Hanifah	Analisis oksida besi magnet dari anai-anai kumpulan Nasutitermes

5.	Ooi Shok Yin	Prof. Dr. Ishak Ahmad	Mengkaji kesan penambahan selulosa nanohablur terubahsuai ke atas sifat mekanik dan terma hidrogel gelatin
6.	Lim Sze Lim	Prof. Dr. Ishak Ahmad	Penyediaan hidrogel poli (asid aspartik) / selulosa nanohablur bagi mengkaji sifat pembengkakan hidrogel terhadap ph dan suhu
7.	Siti Zarina Zakuwan	Prof. Dr. Ishak Ahmad	Penyediaan dan pencirian κ -Carrageenan/ Cellulose Nanocrystal/Nanoclay hibrid nanokomposit
8.	Serawatil Binti Jafirin	Prof. Dr. Ishak Ahmad	Komposit polimer elektrolit berasaskan MG49 dan karboksimetil selulosa daripada kenaf
9.	Farahain mokhtar	Azwani Mat Lazim, Ishak ahmad	Penghasilan hydrogel terbiodegrasi berasaskan pekin buah naga
10.	Rumaisa Nordin	Dr. Azwani Mat Lazim	Sintesis pewarna pintar spiropyran
11.	Adil hakam	Dr. Azwani Mat Lazim	Penghasilan hydrogel berasaskan nata de coco
12.	Airul ain	Dr. Azwani Mat Lazim	Penghasilan hydrogel berasaskan ubi
13.	Norfarahana Aabdul Samad	Rizafizah Othaman/ Ibrahim Abdullah	Membran ENR/PVC untuk rawatan air buangan
14.	Mohd Razali Shamsuddin	Dr. Rizafizah Othaman	Modifikasi selulosa untuk membrane hidrofobik
15.	Mohammad Farhan Mohd Nor	Rizafizah Othaman/Ibrahim Abdullah	Membran ENR/PVC untuk pemisahan gas
16.	Siti Norfatihah Fauzee	Dr. Rizafizah Othaman	Membran berasaskan selulosa dan nanoselulosa
17.	Satriani Aga Pasma	Prof. Dr. Rusli Daik	Penghasilan polimer terbiodegradasi daripada selulosa tandan kosong kelapa sawit melalui tindak balas berenzim
18.	Rahila Ahmad Bashir Khan	Prof. Dr. Rusli Daik	Penghasilan nanokomposit polipirola dan getah kloroprena berpengalir haba melalui penyebaran koloid
19.	Chiew Tze Siong	Prof. Dr. Rusli Daik	Penyediaan dan pencirian nanobendalir polianilina dan cecair ionic eutektik sebagai medium penyimpanan haba
20.	Nur Ashikin Abdul Aziz (P59307)	Khairiah haji Badri/ Ishak Ahmad	Preparation of UV-radiated polyurethane from blends of palm-based monoester and glycolysed PET bottles.
21.	Farah Nadia Daud (P63072)	Azizan bin Ahmad/ Khairiah haji Badri	Penyediaan filem poliuretana sawit sebagai polimer elektrolit pepejal dengan garam lithium pelbagai
22.	Muhammad Syukri Bin Ngah (P64580)	Prof. Madya Dr. Khairiah haji Badri	Kawalan Proses Dalam Penghasilan Poliol Sawit Dalam Reaktor Sesekumpul
23.	Fatin Afifah AhmadKutty (P72859)	Prof. Madya Dr. Khairiah haji Badri	Sintesis Furan Daripada Mikrokrystal Selulosa Tandan Kosong Sawit (EFB) Terawat

24.	Nur Syakilla Hassan (P69845)	Prof. Madya Dr. Khairiah haji Badri	Lignin Terubahsuai Serabut Tandan Kosong Sawit Sebagai Pengikat Dalam Papan Serabut
25.	Nur Liyana Abdul Rahman (P69849)	Prof. Madya Dr. Khairiah haji Badri	Penghasilan Salutan Nanokomposit Panel Kayu Berasaskan Akrilat Minyak Sawit Terepoksida Termatang Sinaran Ultra Lembayung
26.	Mariana Mohd Zahir (P69850)	Prof. Madya Dr. Khairiah haji Badri	Penyediaan Dan Pencirian Komposit Poliuretana Berpengisi Gentian Karbon-Epoksi Terkitar Semula
27.	Ahmad Zuhdi Bin Onn (P72188)	Prof. Madya Dr. Khairiah haji Badri	Pembangunan Formulasi Busa Poliuretana Fleksibel Berketumpatan Tinggi Asas Sawit
28.	Nurul Izzaty Binti Khalid (P69847)	Dr. Azizah Baharum	Penyediaan dan pencirian kayu sintetik tahan kulat sebagai asas pembuatan lantai kayu moden
29.	Hastinatun Mukayat, P65960	Suria Ramli/ Khairiah haji Badri	Palm Palm Oils Diesel Microemulsion Fuels: Phase Behaviours and Their Properties
30.	Noraidah Hj Subakin	Prof. Dr. Sarani Zakaria	Properties On Non-Wood Fibers and its Suitability For Paper Production.
31.	Rasidi bin roslan	Prof. Dr. Sarani Zakaria	Penghasilan resin fenolik jenis resol dari gentian tandan kosong kelapa sawit
32.	Nur fazlinda binti razali	Prof. Dr. Sarani Zakaria	Penghasilan manik selulosa terhasil semula yang mengandungi grafina oksida
33.	Hatika binti kaco	Prof. Dr. Sarani Zakaria	Penghasilan hydrogel selulosa dari kenaf teras
34.	Gan sin yee	Prof. Dr. Sarani Zakaria	Cellulose cabamax from cotton linter fibers
35.	Umar adli bin amran @ mohamad zaki	Prof. Dr. Sarani Zakaria	Penghasilan komposit fenolik berpenguat gentian kaca
36.	Muhammad azizi bin bharudin	Prof. Dr. Sarani Zakaria	Pengekstrakan tanin dari kulit kayu acacia mangium
37.	Ng pei vun	Prof. Madya Dr. Chia Chin Hua	Penghasilan selulosa terhasil semula dari gentian tandan kosong kelapa sawit
38.	Chong kai yin	Prof. Madya Dr. Chia Chin Hua	Penghasilan mikrosfera kalsium karbonat untuk penyerapan tanin dari larutan akues
39.	Muhammad Zaidi Bin Zakaria	Prof. Dr. Sahrim Hj. Ahmad	Nanokomposit Epoksi Berpengisi Hybrid Nanozarah Alumina Dan Boron Karbida
40.	Fatin Nabilah Binti Tajul Ariffin	Prof. Dr. Sahrim Hj. Ahmad	Kesan Penambahan Boron Karbida Dalam Konkrit Prestasi Tinggi Terhadap Penyerapan Neutron
41.	Dalila Binti Shahdan	Prof. Dr. Sahrim Hj. Ahmad	Polilaktik Asid Diperkuat Bahan Pengisi Nikel Zink Ferit Dengan Modifikasi Matrik Menggunakan Cecair Getah Asli

iii. Doktor Falsafah (Sedang Maju)

BIL	NAMA	PENYELIA UTAMA	TAJUK TESIS
1.	Nur Diyana Sani	Lee Yook Heng Azwan Mat Lazim	Pembangunan biosensor bagi menentukan kandungan Aluminum dalam air minuman
2.	Noor Afizah binti Rosli	Prof. Dr. Ishak Ahmad	Penyediaan dan pencirian biokomposit PLA/agave angustifolia
3.	Supeno	Prof. Dr. Rusli Daik	Development of fertilizer retaining agent from cellulose-based ionic polymers
4.	Sarifah Fauziah Syed Draman	Prof. Dr. Rusli Daik	Penyediaan perekat nanokomposit berpengalir haba berasaskan selulosa terubahsuai, polipirola berdop dan pengisi seramik
5.	Stephanie Kong Lee Keong	Prof. Dr. Rusli Daik	Synthesis of polyacrylonitrile copolymers and production of nanofibers via electro-spinning for palm oil mill effluent filtration
6.	Ahmad Adlie Shamsuri,	Prof. Dr. Rusli Daik	Penyediaan komposit lutsinar berpengalir elektrik berasaskan cecair ionik eutektik, polimer semulajadi dan oksida logam
7.	Sjamsiah Uca	Prof. Dr. Rusli Daik	Development of carrageenan nanoparticles as viscosity modifier in gel soft drink
8.	Nordiana Suhada Bt. Mohmad Tahiruddin	Prof. Dr. Rusli Daik	Penghasilan Nanobendalir Polimer Daripada Polipirola dan Cecair Ionik Eutektik untuk Penyimpanan Tenaga
9.	Anith Liyana Binti Mohd Sis	Prof. Dr. Rusli Daik	Mesoporous Composite Electrode Of Molecularly Imprinted Polymer For Electrochemical Double Layer Capacitor
10.	Nor Rabi'atul 'Adawiyah Norzali	Khairiah haji Badri/ Ishak Ahmad	Synthesis of phosphate-containing palm-based polyester for improved fire-retardancy polyurethanes
11.	Mohd Sukor Bin Su'ait	Azizan bin Ahmad/ Khairiah haji Badri	A Development of Polyurethane Bio-based Polymer Electrolytes for Dye-sensitized Solar cell Application
12.	Lim Keuw Wei	Prof. Madya Dr. Khairiah haji Badri	Penghasilan Sarung Tangan Hibrid berasaskan Getah Asli dan Getah Sintetik Nitril
13.	Kamarul Aini Mohd Sari	Sohif Saad/ Khairiah haji Badri	Fast curing Light-weight concrete foam as insulated panel
14.	Wong Chee Sien	Prof. Madya Dr. Khairiah haji Badri	Poliuretana Sawit Swa-Rawat Dan Swa Matang Mengandungi Esculitin
15.	Amamer Musbah Omran Redhwan	Prof. Madya Dr. Khairiah haji Badri	Preparation of fiberboard using polyurethane as binder via prepolymerization method

16.	Azlin Mohmad Azman	Prof. Madya Dr. Khairiah haji Badri	Kawalan Proses Dalam Penghasilan Papan Serabut Sawit Berpengikat Pra-Poliuretana Sawit
17.	Herath Mudiyanseleage Chandima Chathuranga Somarathna	Sudharshan Naidu Raman/ Khairiah haji Badri	Synthesis of Elastomeric Polymers for Robust Strengthening of Reinforced Concrete Structures subjected to Blast Effects
18.	Chan Chi Hoong	Prof. Dr.Sarani Zakaria	Preparation of nanocrystalline cellulose from kenaf core fibres for composite applications
19.	Chin Siew Xian	Prof. Madya Dr. Chia Chin Hua	Extraction of mannose and glucose from oil palm kernel cake using solid acid catalyst
20.	Chook Soon Wei (P57343)	Prof. Madya Dr. Chia Chin Hua	Preparation of Bio-active Paper containing Silver Nanocrystal, Graphene Oxide and Chitosan
21.	Mohd Shaiful Bin Sajab	Prof. Madya Dr. Chia Chin Hua	Chemical modification of palm oil empty fruit bunch fibres for wastewater treatment
22.	Fan Suet Pin	Prof. Madya Dr. Chia Chin Hua	Production of glucose and mannose from palm kernel cake via hydrolysis method
23.	Ngoi Kuan Hoon	Prof. Madya Dr. Chia Chin Hua	Magneto-wetting studies of iron-oxide nanoparticles encapsulated polystyrene nanorod surface
24.	Wong Jia Chyi	Prof. Madya Dr. Chia Chin Hua	Folated pH-responsive copolymer coated iron oxide nanoparticles as nanocarrier for targeted cancer drug delivery
25.	Yang Chia Yan	Prof. Dr. Sarani Zakaria	Preparation of TiO ₂ loaded cellulose hydrogel
26.	Ku Zarina Binti Ku Ahmad	Prof. Dr. Sahrim Hj. Ahmad	Crack Propagation And Fracture Resistance Behavior Under High Impact Loading In Pmma-Epoxy- Organoclay Nanocomposites For Military Applications.
27.	Muhammad Zakir Muzakkar	Prof. Dr. Sahrim Hj. Ahmad	Fabrikasi Dan Karakterisasi Komposit Laminat Al-Tpnr
28.	Syazana Binti Ahmad Zubir	Prof. Dr. Sahrim Hj. Ahmad	Komposit Hybrid Busar Poliuretana Mesra Alam Berasaskan Minyak Kelapa Sawit Dan Tiub Nano Karbon.
29.	Norazwani Muhammad Zain	Prof. Dr. Sahrim Hj. Ahmad	Mechanism Of Adhesion Of Polycaprolactone/Palm Kernel Oil Based Polyurethane Adhesive To Alloy 2024
30.	Nor Azwin Binti Ahad	Prof. Dr. Sahrim Hj. Ahmad	Nanokomposit Pu Elastomer Berpengisi Nizr Ferit
31.	Yusri Helmi Bin Muhammad	Prof. Dr. Sahrim Hj. Ahmad	Komposit Epoksi Berpenguat Gentian Hybrid Kenaf Dan Kaca

32.	Alshomer Shereen Mohammad	Prof. Dr. Sahrim Hj. Ahmad	Effect Of Aging Time On The Optical, Structural And Photoluminescence Properties Of Nanocrystalline ZnO Films Prepared By A Sol–Gel Method
33.	Adilah Binti Mat Ali	Prof. Dr. Sahrim Hj. Ahmad	Nanokomposit Pla Bermagnet Berpengisi Cnt/Nickel Ferit
34.	Mohd Nazry Bin Salleh	Prof. Dr. Sahrim Hj. Ahmad	Komposit Adunan Hdpe/Pet Kitar Semula Berpengisi Sekam Padi Dan Nanozarah Kalsium Karbonat Terawat
35.	Mohd Hafizuddin Bin Ab Ghani	Prof. Dr. Sahrim Hj. Ahmad	Komposit Adunan Hdpe/Pet Kitar Semula Berpengisi Sekam Padi Dan Nanotiub Karbon
36.	Suzana Binti Ratim	Prof. Dr. Sahrim Hj. Ahmad	Nanokomposit Tpnr Berpenguat Cnt/Gentian Kenaf
37.	Jeefferie Bin Abd Razak	Prof. Dr. Sahrim Hj. Ahmad	Adunan Sbr/Nr Sebagai Penyerap Haba Untuk Komponen Automotif
38.	Chen Ruey Shan	Prof. Dr. Sahrim Hj. Ahmad	Komposit Adunan Hdpe/Pet Kitar Semula Berpengisi Sekam Padi Dan Nanozarah Tanah liat Terawat

iv. Pasca Kedoktoran (POSTDOC)

BIL	NAMA	PENYELIA
1.	Hanieh Kargarzadeh	Prf. Dr. Ishak Ahmad
2.	Dr Sepideh Soltaninejad	Prof. Dr. Rusli Daik
3.	Dr. Moayad Husein Alhaj Mahmoud Flaifel	Prof. Dr. Sahrim Hj. Ahmad
4.	Dr. Mou'ad Ahmad Al-Tarawneh	Prof. Dr. Sahrim Hj. Ahmad

5. JARINGAN KERJASAMA

BIL	INSTITUSI/JABATAN	AKTIVITI
1.	Grenoble Institute of Technology, Perancis	Malaysia Polymer International Conference Professor Pelawat
2.	Kenaf Fiber Industries	Research on Kenaf as nanowhiskers
3.	Cradle Fund Sdn Bhd	Production of Palm-based polyol
4.	Top Glove Sdn Bhd – Glove	Manufacturing company on deproteinised examination glove and waste water treatment
5.	Romstar Polyurethane Sdn Bhd	Polyurethane manufacturer on Pigging for pipeline inspection
6.	CYKIB Sdn Bhd	Construction Company on manufacturing of lightweight concrete
7.	Cradle Fund Sdn bhd	Pemberi dana inovasi untuk penghasilan polioli poliuretana berskala besar

6. KHIDMAT PROFESIONAL/RUNDINGAN/MASYARAKAT

BIL	NAMA PENYELIDIK/ LAPORAN	AGENSI/ORGANISASI	TARIKH	JAWATAN
1.	Prof. Dr. Ishak Ahmad National Nanotechnology Directorate Division (NND)	MOSTI	2013	Ahli Jawatankuasa
2.	Dr. Sharina Abu Hanifah 6th International Conference on Sensors	ASIA SENSE 2013	2013	Setiausaha
3.	Prof. Dr. Rusli Daik Malaysia Polymer International Conference	MPIC 2013	25-26 Sept 2013	Pengerusi
4.	Dr. Sharina Abu Hanifah	Pusat Penyelidikan dan Analisis Air (ALIR)	2013	Ahli bersekutu
5.	Dr. Mohd Suzeren Md Jamil Kem Sains 2013	PORCE	2013	Pengerusi
6.	Dr. Sharina Abu Hanifah	Institut Kimia Malaysia	2013	Ahli
7.	Dr. Sharina Abu Hanifah Bengkel Semakan Semula Siswazah 2013	FST UKM	2013	Ahli Jawatankuasa
8.	Dr. Sharina Abu Hanifah Penerbitan Buku Panduan Siswazah Sesi 2013-2014	FST UKM	2013	Ahli Jawatankuasa
9.	Dr. Rizafizah Othaman	Lembaga Jurutera Malaysia	2013	Ahli
10.	Prof. Madya Dr. Harun Hamzah ICT dan Penerbitan PPSKTM	PPSKTM FST	2013	Ahli Jawatankuasa
11.	Prof. Madya Dr. Khairiah Badri Malaysia Polymer International Conference (MPIC 2013)	MPIC 2013	25-26 Sept 2013	Bendahari
12.	Dr. Azwani Mat Lazim Ekspo Inovasi Islam 2013	4 th i-INOVA '13	2013	Peserta
13.	Prof. Madya Dr. Khairiah Badri	Pusat Permata Pintar Negara	2013	Tenaga pengajar
14.	Prof. Madya Dr. Khairiah Badri	Unit ISO9001:2008	2013	Jkuasa Pengaudit Dalam ISO9001:2008
15.	Prof. Madya Dr. Khairiah Badri	SIRIM Berhad	2013	Malaysian Standard Committee for General Purpose Chemicals
16.	Prof. Madya Dr. Khairiah Badri Mechanical Testing Machine Lab, PORCE, FST, UKM	PORCE	2013	Ketua Makmal
17.	Prof. Madya Dr. Khairiah Badri Malaysian Oil Scientists' and Technologists' Association (MOSTA) No. MM257	MOSTA	2013	Ahli
18.	Prof. Dr. Rusli Daik	Malaysian Analytical Sciences Society	2013	Ahli
19.	Prof. Dr. Rusli Daik	Malaysian Solid State Science and Technology Society	2013	Ahli
20.	Prof. Dr. Rusli Daik IUPAC	IUPAC	2013	Ahli

21.	Ishak Ahmad Influence of Cellulose Nanocrystals (CNC) From Rice Husk on the Properties of Plasticized Starch Biocomposites	Influence of Cellulose Nanocrystals (CNC) From Rice Husk on the Properties of Plasticized Starch Biocomposites	2013	Invited speaker
22.	Ishak Ahmad NND Research Program Initiative: Nano Cellulose	Program Nano Malaysia 2013 Convention And Expo (Nano Malaysia 2013)	2013	Invited speaker
23.	Prof Dr Rusli Daik Electron Microscopy of Electroactive Polymer Nanoparticles, Scientific Conference of Microscopy Society of Malaysia, Kuala Terengganu,	Scientific Conference of Microscopy Society of Malaysia, K Terengganu	Nov 2013	Invited speaker
24.	Prof Dr Rusli Daik Thermally Conductive Nanocomposites of Surfactant-doped Polypyrrole and Chloroprene Rubber	Collaborative Conference on Materials Research, Jeju South Korea	Jun 2013	Invited speaker
25.	Prof Dr Rusli Daik Radar Absorbing Polypyrrole Nanocomposites	International Conference on the Innovation in Polymer Science and Technology 2013, Yogyakarta	October 2013	Keynote speaker
26.	Prof Dr Rusli Daik Nanofluid of Electroactive Polymers	Fundamental Science Congress 2013, Universiti Putra Malaysia	August 2013	Invited speaker
27.	Prof Dr Rusli Daik Biodegradable Polyesters From Biomass Derived Monomers Synthesized Via Enzymatic Polymerization	Malaysia Polymer International Conference 2013, Bangi	September 2013	Keynote speaker
28.	Khairiah Haji Badri TechInnovation: Derivatization of Polyurethane Polyols from Palm Oil (and any other vegetable oils)	Suntec City Singapore.	24-27 September 2013	Keynote Speaker
29.	Khairiah Haji Badri Latex and Synthetic Polymer Dispersion 2013 (LATEX2013). Rubber-like polyurethane from palm kernel oil by a prepolymerization technique	Renaissance Hotel, KL.	10-11 September 2013	Keynote Speaker

7. KEJAYAAN

i. Anugerah/ Pengiktirafan Penyelidikan dan Penerbitan

BIL	NAMA ANUGERAH/ PENGIKTIRAFAN	PENERIMA	TAJUK DIANUGERAH
1.	PECIPTA International Conference and Exposition on Invention of Institutions of Higher Learning (Bronze)	Phosphate Sensor for Domestic Waste Water (Dr. Sharina Abu Hanifah)	7-9 November 2013
2.	The Belgian and International Trade Fair for Technological Innovation (Silver)	Dr. Sharina Abu Hanifah Prof. Lee Yook Heng Norhadisah Mohd Zaini Siti Zulaikha Mazlan Amalina Ahmad	16 November 2013
3.	PECIPTA International Conference and Exposition on Invention of Institutions of Higher Learning (Bronze)-ENR/PVC BASED MEMBRANES FOR WASTEWATER TREATMENT AND GAS SEPARATION	(Dr. Rizafizah Othaman)	7-9 November 2013

4.	The Belgian and International Trade Fair for Technological Innovation (Silver)	Dr. Rizafizah Othaman dan Prof. Dr. Ibrahim Abdullah	16 November 2013
5.	Group Research Award: UKM Quality Day 2012/ Equatorial/UKM	Prof. Muhammad Fauzi Mohd Zain/ PM Dr Maslina Jamil/ PM Dr Khairiah Badri/ Dr Sudharshan Raman	28 May 2013

ii. Penjana Kewangan

1. Yuran pendaftaran, Bengkel Reologi 2013
2. Yuran pendaftaran, MPIC2013
3. Yuran Pendaftaran, Kem Sains v1.0
4. Perundingan daripada industri
5. Analisis sampel daripada industri
6. Perkhidmatan ujian bagi sampel daripada industri
7. Penjualan liquid natural rubber
8. Penjualan polyol sawit
9. Penjualan buku terbitan PORCE, Progress in Polymer Research

8. AKTIVITI

- 1) Bengkel Pengurusan Penyelidikan PORCE | 3 Jan 2013 di Residence Hotel, Bangi- Putrajaya



- 2) PROGRAM MOTIVASI PMR & SPM 2013 | 2 Februari 2013 di Sekolah Kiblah Bukit Unggul
- 3) Kem Sains V1.0 | 26-29 Mei 2013 di Fakulti Sains dan Teknologi, UKM



- 4) Mesyuarat PORCE Bil. 1 hingga Bil 4/2013 di Bilik Mesyuarat PPSKTM, FST
- 5) Lawatan dan rundingan bersama penyelidik dari Mahatma Gandhi University, India iaitu Prof. Dr. Sabu Thomas | 12 Sept 2013 di Bilik Mesyuarat DAM, FST



- 6) Bengkel reologi | 23-24 September 2013 di Fakulti Sains dan Teknologi, UKM



- 7) Malaysia Polymer International Conference 2013 | 25-26 September 2013 di Residence Hotel Bangi-Putrajaya



8) Bengkel Editorial MPIC 2013 | 18-19 Nov 2013 di RHR Hotel UNITEN



9) Lawatan dan rundingan bersama penyelidik dari CSIRO Materials Science & Engineering, Australia iaitu Dr. Russel Varley, Dr. Xiaoqing Zhang dan Dr. Bill Humphries CSIRO Australia | 11 Jun 2014 di Bilik Mesyuarat DAM, FST

