

RESEARCH GRANT

RESEARCH GRANT- UKM (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Water : A chemical solution – The global Chemistry experiment in Malaysia	KOMUNITI-2011-032	Rusli Daik	HEJIM	40,000	2012
Kepekaan terhadap pencemaran udara dikalangan pelajar sekolah: Belajar dari Liken	KOMUNITI-2011-038	Rusli Daik	HEJIM	25,500	2012
Tahap kepatuhan amalan keselamatan makmal sains kimia dikalangan pelajar penghkhususan sains kimia, FST UKM	PTS-2011-031	Rusli Daik	Strategic Action Research Grant (PTS)	12,000	2012
Synthesis and Characterization of Nanocomposites of Chemically Modified Cellulose, surfactant-doped Polypyrrole and Ceramic Fillers as Thermally Conductively	UKM-GUP-2011-209	Rusli Daik	Research University Grant (GUP)	30,000	2012
Polymer Nanofluid from Polypyrrole and Deep Eutectic Ionic Liquid for Thermal Energy Storage	GUP-2012-085	Rusli Daik	Research University Grant (GUP)	30,000	2012
A Hydrophobic Coating Film from recycled polyethylene terephthalate waste and palm kernel oil-based polyester blends.	UKM-GUP-2012-042	Khairiah Haji Badri	Research University Grant (GUP)	51,600	2012


RESEARCH GRANT (cont'd)

RESEARCH GRANT- UKM (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Penyediaan Plastik Biourai untuk Tujuan Pembungkusan	INDUSTRI-2011-014	Ishak Ahmad	HEJIM	25,000	2012
Chemistry's Students Engagement Practice Through Technology Enhance Learning (TEL)	PTS-2012-135	Mohamad Azwani Shah Mat Lazim	Strategic Action Research Grant (PTS)	10,000	2012
Kesan penambahan zarah nano emas dalam membina fotopolimer terpegun enzim trosinase untuk pengesanan sebatian fenol	UKM-GGPM-NBT-094-2010	Sharina Abu Hanifah	Young Researcher Incentive Grant (GGPM)	31,000	2012
Pembangunan Modul Kimia Jangkau Luar	PTS-2012-138	Rizafizah Othaman	Strategic Action Research Grant (PTS)	11,000	2012
Study Method To Simultaneously Encounter Black Smoke And Reduce Carbon Dioxide Released During Combustion Of Palm Oil Fiber For Energy Conversion Based On Zero	UKM-GUP-2011-226	Rizafizah Othaman	Research University Grant (GUP)	30,000	2012
Chemistry Outreach (Kimia Jangkau Luar)	KOMUNITI-011-035	Rizafizah Othaman	HEJIM	25,000	2012

RESEARCH GRANT (cont'd)

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Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Penghasilan Dan  Potensi Penggunaan Karbon Teraktif Daripada Tempurung Kelapa Untuk Penyingkiran Logam Berat Dalam Air Minuman	UKM-GGPM- KPB-167-2010	Rizafizah Othaman	Young Researcher Incentive Grant (GGPM)	50,000	2012
Synergistic effect of hybrid nanofillers (Graphene-carbon Nanotubes) in Thermoplastic Natural Rubber Composites : Development of the Novel Multiscale hybrid Nanocomposites	GUP-2012-084	Prof. Dr. Sahrim Ahmad	Research University Grant (GUP)	35,000	2012
Bahan dan Teknologi Hijau	OUP-2012-135	Prof. Dr. Sahrim Ahmad	OUP	65,000	2012
Nanokomposit Getah Asli Termoplastik	UKM-DLP- 2012-029	Prof. Dr. Sahrim Ahmad	Dana Lonjakan Penerbitan (DLP)	100,000	2012
Hydroxylation Mechanism of Caprolactone/Palm Kernel Oil base Biopolyol	UKM-GUP- 2011-161	Prof. Dr. Sahrim Ahmad	Research University Grant (GUP)	35,000	2012
Kebolehpasaran siswazah sains dan teknologi.	PTS-2011-035	Prof. Dr. Sahrim Ahmad	Strategic Action Research Grant (PTS)	50,000	2011-2013

RESEARCH GRANT (cont'd)

RESEARCH GRANT- UKM (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Membina mode hubungan faktor penyumbang graduan penyelidik dalam sains dan teknologi.	PTS-2011-041	Prof. Dr. Sahrim Ahmad	Strategic Action Research Grant (PTS)	15,000	2012
Amali dan persekitaran dalam pembelajaran: Pembentukan masyarakat ulul-albab.	PTS-2011-042	Prof. Dr. Sahrim Ahmad	Strategic Action Research Grant (PTS)	14,000	2012
Penelitian saintifik biologi dan bahan berasaskan al quran.	UKM-PTS-090-2010	Prof. Dr. Sahrim Ahmad	Strategic Action Research Grant (PTS)	25,000	2012
Membina kurikulum siswazah, terampil penyelidikan, kreatif dan inovatif.	UKM-PTS-011-2010	Prof. Dr. Sahrim Ahmad	Strategic Action Research Grant (PTS)	150,000	2012
The effect of filler size on the neutron capture efficiency of TPNR nanocomposite	UKM-GPP-PPKK-22-2009	Prof. Dr. Sahrim Ahmad	GPP	15,000	2012-2013
Development of Phenolic Resin (PR) Made from Liquified Oil Palm Empty Fruit Bunch Fiber for the Prototype Products of Moulded PR and PR Adhesives	INOVASI-2011-016	Prof. Dr. Sarani Zakaria	INOVASI	100,000	2012
Lignocellulose Materials: Effect of Chemical Modification and the Application of Metal Oxide and Sulphide Catalyst	UKM-DLP-2011-036	Prof. Dr. Sarani Zakaria	Dana Lonjakan Penerbitan (DLP)	100,000	2012

RESEARCH GRANT (cont'd)**RESEARCH GRANT- UKM (2012)**

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Superabsorbance Oil Palm Cellulose Hydrogel Fabricated via Pre-Gelatin Technique	UKM-GUP-2011-227	Prof. Dr. Sarani Zakaria	Research University Grant (GUP)	30,000	2012
TOTAL FUNDING RECEIVED (2012) = RM 1,181,700					

RESEARCH GRANT- UKM (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Penghayatan sains kimia melalui pendekatan sains tauhidik	PTS-2013-118	Dr. Sharina Binti Abu Hanifah	Strategic Action Research Grant (PTS)	10,000	2013
Polymer Nanofluid from Polypyrrole and Deep Eutectic Ionic Liquid for Thermal Energy Storage	GUP-2012-085	Prof. Dr. Rusli Daik	Research University Grant (GUP)	30,000	2013
Production of Value-added Products from Local Renewable Resources	UKM-AP-2011-20	Prof. Dr. Rusli Daik	Arus Perdana (AP)	100,000	2013-2014
Functional Biopolymer Composites	AP-2013-006	Prof. Dr. Rusli Daik	Arus Perdana (AP)	250,000	2013-2014
Nanobendalir Polimer sebagai Medium Penyimpan Haba	DLP-2013-041	Prof. Dr. Rusli Daik	Dana Lonjakan Penerbitan (DLP)	100,000	2013
Palm-Based Elastomeric Polyurethane as a Tool for Pipeline Inspection	ETP-2013-026	AP Dr. Khairiah Binti Badri , Co-Dr. Sharina Binti Abu Hanifah	Economic Transformation Programme (ETP)	140,000	2013-2014

RESEARCH GRANT (cont'd)

RESEARCH GRANT- UKM (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Palm Oils Diesel Microemulsion Fuels: Phase Behaviours and Their Properties	GGPM-2012-109	Dr. Suria Ramli Co-AP Dr. Khairiah Binti Badri	Young Researcher Incentive Grant (GGPM)	50,000	2013
Enzyme and microbial biotransformation of plant fiber for the production of vanillic acid and vanillin	DIP-2012-018	Prof. Dr. Osman Hassan Co-AP Dr. Khairiah Binti Badri	Dana Impak Perdana (DIP)	100,000	2013-2014
A Hydrophobic Coating Film from recycled polyethylene terephthalate waste and palm kernel oil-based polyester blends	UKM-GUP-2012-042	AP Dr. Khairiah Binti Badri	Research University Grant (GUP)	30,000	2013
Nata De Coco Based Hydrogel Via Microwave Irradiation Technique For Treatment Of Open And Burn Wound	Industri-2013-022	Dr. Mohamad Azwani Shah Bin Mat Lazim	Geran Galakan Penyelidikan Universiti-Industri	25,000	2013
Antibacterial Regenerated Cellulose Products loaded with Silver nanoparticles, Graphene Oxide and Nanocrystalline Cellulose	DIP-2-12-34	Prof. Sarani Zakaria	Dana Impak Perdana (DIP)	200,000	2013-2014
Cellulose Hydrogel and Graphene Cellulose Hydrogel Membrane For Water and Dye Absorption	ETP-2013-002	Dr. Hasyareeda Hassan Co- Prof. Sarani Zakaria	Economic Transformation Programme (ETP)	227,800	2013-2014

TOTAL FUNDING RECEIVED (2013) = RM 1,262,800

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Modifikasi kimia permukaan zarah selulosa dengan getah asli cecair sebagai pengisi termoplastik	UKM-ST-06-FRGS0145-2010	Prof. Ibrahim Abdullah	MOHE	58,400	2010-2012
Modifikasi kimia selulosa dengan getah asli terepoksi cecair (LENR) sebagai pengisi termoplastik	UKM-ST-07-FRGS0153-2010	Prof. Ishak Ahmad	MOHE	86,000	2010-2012
Solid State Self-healing Composite: The Physical Aging, Nano-confinement Effect and Mixed-mode Fatigue Loading of the Healable Resin	ERGS/1/2012/TK04/UKM/03/3	Prof. Rusli Daik	MOHE	73,000	2012-2014
Solid state self-healing composite: Study of the influence of molecular weight and ionomer interaction of different matrixs, linear polymer and nanocrystalline cellulose	FRGS/1/2012/SG07/UKM/03/1	Prof. Rusli Daik	MOHE	88,000	2012-2014
Development of heat dissipating conjugated polymer based nanocomposites via emulsion dispersion	UKM-ST-06-FRGS0095-2010	Prof. Rusli Daik	MOHE	48,800	2010-2012
Novel Biodegradable Starch Composite Reinforced with Cellulose Nanocrystals from Rice Husk	ERGS/1/2012/STG01/UKM/02/4	Prof. Ishak Ahmad	MOHE	85,000	2012-2014

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Development of cellulose nanowhiskers from coconut fibers for packaging materials	05-01-02-SF1017	Prof. Ishak Ahmad	MOSTI	85,000	2010-2012
Conversion of carbon dioxide (CO ₂) to Fuel by catalytic method	LRGS/BU/2011/ USM-UKM/PG/02	Dr. Rizafizah Othaman	MOHE	250,000	2011-2013
Development of highly porous ENR/silica hybrid nanocomposite aerogels via sol-gel technique foer wastewater treatment	UKM-ST-02- FRGS0204-2010	Dr. Rizafizah Othaman	MOHE	42,140	2010-2012
Extraction and Characterization of Cellulose from Mengkuang/ Pineapple Leaf	UKM-ST-06- FRGS0150-2010	Dr. Rizafizah Othaman	MOHE	43,000	2010-2012
A New Development of Polyurethane Bio-based Polymer Electrolytes for Dye Sensitized Solar Cell Application	FRGS/1/2011/ TK/UKM/02/39	AP Dr. Azizan Ahmad	MOHE	70,800	2011-2013
Synthesis and fabrication of MG-49 based nanocomposite polymer electrolyte for lithium batteries application	NND/NM/(2)/ TD11-046	AP Dr. Azizan Ahmad	MOSTI	359,000	2011-2012
Preparation and Characterization of PEO-LiClO ₄ -NiO ₂ Based Nanocomposite Polymer Electrolyte for Lithium Ion Battery Application.	UKM-ST-06- FRGS0097-2010	AP Dr. Azizan Ahmad	MOHE	52,800	2010-2012

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Synthesis of Novel Butyl Rubber as Hydrophobic Absorbance for the Removal of Oil and Polycyclic Hydrocarbons (PAH) from Aquatic Pollutant	ERGS/1/2012/ STG05/UKM/03/2	Dr. Mohamad Azwani Shah Mat Lazim	MOHE	75,000	2012-2014
Biocompatibility Study of Bio-Based Shape Memory Polyurethane Nanocomposite for Biomedical Application	PPP/FST/STH/ 30/15312	Prof. Dr. Sahrim Ahmad	MOHE	35,000	2012
Failure modes evaluation of AI/PU foam sandwich composite under flexural and compression test using ANSYS Multiphysic	Sciencefund 9005-00055	Prof. Dr. Sahrim Ahmad	MOSTI	110,700	2010-2012
Self-sensing Actuator made from the Cellulose Nanocrystal (CNC) and Bio Based Shape Memory Polyurethane (SMPU)	USIM/RAGS/FST/ STH/36/50512	Prof. Dr. Sahrim Ahmad	MOHE	58,000	2010-2012
Kenaf: Sustainability Materials in Automotive Industry	LRGS/TD/2012/ USM-UKM/PT/03	Prof. Dr. Sahrim Ahmad	MOHE	2,300,000	2012-2016
Mekanisme penyerapan radiasi neutron konkrit.	FRGS/A/2011	Prof. Dr. Sahrim Ahmad	MOHE	175,500	2011-2013
TOTAL FUNDING RECEIVED (2013) = RM 3,236,800					

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
New diffusion models and investigating their roles in improving biosensor performance of some new acrylic based biosensor membranes	FRGS/1/2013/ ST01/UKM/02/2	Dr. Sharina Binti Abu Hanifah	Fundamental Research Grant Scheme (FRGS)	92,000	2013-2014
New macromolecules incorporated into nanocomposite optocal array capable of trace-level recognition of anionic pollutants	ERGS/1/2011/ STG/UKM/02/15	Dr. Sharina Binti Abu Hanifah	Exploratory Research Grant Scheme (ERGS)	106,000	2013-2015
A DNA Biosensor with dry-reagent for rapid detection of biohazard vibrio cholerae in flood disaster zones	02-01-02-SF0821	Prof. Dr. Lee Yook Heng Co-Dr. Sharina Binti Abu Hanifah	Sciencefund (MOSTI)	265,000	2013-2014
Oil palm ecological restoration and agro ecosystem services inventory (OPERASI)	ZF-2013-011	Dr Faszly Bin Rahim Co-Dr. Sharina Binti Abu Hanifah	Kursi Perubahan Iklim UKM-YSD	20,000	2013
Swelling Mechanism Study Of Ph Responsive Biodegradable Cellulose Nanocrystals (Cnc) Based Hydrogels Cross-Linked With Polyacrylic Acid For Drug Delivery	FRGS/2/2013/ SG06/UKM/02/2	Prof. Dr. Ishak Bin Ahmad	Fundamental Research Grant Scheme (FRGS)	127,000	2013-2015
Thermally Conductive Adhesive From Chemically Modified-Cellulose And Nanoparticles Of Surfactant-Doped Polypyrrole	FRGS/1/2012/ ST01/UKM/02/5	Prof. Dr. Rusli Daik	Fundamental Research Grant Scheme (FRGS)	115,200	2013-2015

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Thermal Energy Storage Polymer Nanofluid From Dispersion Of Electroactive Polymer Nanoparticle In Deep Eutectic Ionic Liquid	ERGS/1/2013/ STG01/UKM/02/5	Prof. Dr. Rusli Daik	Exploratory Research Grant Scheme (ERGS)	128,000	2013-2015
Molecularly Imprinted Polymer With Controlled Porosity For Supercapacitor Electrode	06-01-02-SF1057	Prof. Dr. Rusli Daik	Sciencefund (MOSTI)	98,250	2013-2014
Chemical Conversion of Terephthalic Acid From Oil Palm Biomass to Polyethylene Terephthalate Via Diels Alder Reaction	ERGS/1/2013/ STG01/UKM/02/2	AP Dr. Khairiah Binti Badri	Exploratory Research Grant Scheme (ERGS)	132,000	2013-2014
Synthesis of Elastomeric Polymers for Robust Strengthening of Reinforced Concrete Structures subjected to Blast Effects	ERGS/1/2013/ TK03/UKM/02/6	Dr. Sudharshan Naidu Raman, Co-AP Dr. Khairiah Binti Badri	Exploratory Research Grant Scheme (ERGS)	130,000	2013-2014
Palm kernel oil-based polyester in fabricated polyurethane incorporated multi-walled carbon nanotubes for wound dressing application	FRGS/1/2013/ SG06/UMT/02/1	Dr. Khairul Anuar Mat Amin, Co-AP Dr. Khairiah Binti Badri	Fundamental Research Grant Scheme (FRGS)	98,000	2013-2014
A Hydrophobic Green Polyurethane for Anti-Weathering Coating On Fiberboard	03-01-02-SF0949	AP Dr. Khairiah Binti Badri	Sciencefund (MOSTI)	159,400	2013-2014
Development of hyperbranched Curable resin from palm oil	03-03-01-SF0104	Dr. Mek Zah Salleh Co-AP Dr. Khairiah Binti Badri	Sciencefund (MOSTI)	233,000	2013-2014

RESEARCH GRANT (cont'd)

RESEARCH GRANT- NATIONAL (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Penghasilan Hidrogen daripada Proses Pembelahan Molekul Air Menggunakan Mangkin Logam Terpilih	FRGS/2/2013/TK06/UKM/02/1	Dr. Rizafizah Othaman	Fundamental Research Grant Scheme (FRGS)	111,400	2013-2015
Biobased thermoplastic composites from thermoplastic natural rubber	03-01-02-SF1000	Prof. Dr. Ibrahim Abdullah	Sciencefund (MOSTI)	127,500	2013-2014
Application of Biominetic Nanocatalyst in the Hydrolysis of Palm Kernel Cake (PKC) for the Production of Mannose and Oligo-Mannan	ERGS/1/2012/STG01/UKM/03/3	AP Dr. Chia Chin Hua	Exploratory Research Grant Scheme (ERGS)	94,000	2013-2015
Kinetics and mechanism of acid hydrolysis of oil palm empty fruit bunch fibres into levulinic acid	FRGS/2/2013/SG01/UKM/02/2	AP Dr. Chia Chin Hua	Fundamental Research Grant Scheme (FRGS)	109,700	2013-2014
Development Of Super Toughen Regenerated Cellulose Fibre Via Pre Cool Method	ERGS/1/2012/STG05/UKM/01/4	Prof. Sarani Zakaria	Exploratory Research Grant Scheme (ERGS)	99,000	2013-2015
Fabrication and Characterizations of Embedded Self Reinforced Regenerated Kenaf Cellulose Fibres and Nano-Crystalline-Cellulose Treated with Nano Functional Groups.	LRGS/TD/2012/USM-UKM/PT/04	Prof. Sarani Zakaria	Long Research Grant Scheme (LRGS)	1,843 0000	2013-2017

RESEARCH GRANT (cont'd)**RESEARCH GRANT- NATIONAL (2013)**

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Preparation and characterization of Hybrid Kevlar/Kenaf Prepreg using biological Phenolic Resin for Bullet Proof Vest.	Industri-2013-0025	Prof. Sarani Zakaria	Geran Galakan Penyelidikan Universiti-Industri	25,000	2013-2014
Developments of regenerated kenaf core cellulose superabsorbent containing graphene oxide via environmentally friendly precooling method.	PRGS/1/13/SG07/UKM/01/1	Prof. Sarani Zakaria	Prototype Development Research Grant Scheme (PRGS)	220,000	2013-2014
Mechanism of Adhesion of Polycaprolactone/Palm Kernel Oil based Polyurethane Adhesive to Alloy 2024	FRGS/1/2012/SG07/UKM/01/1	Prof. Sahrim Ahmad	Fundamental Research Grant Scheme (FRGS)	133,000	2013-2014
Mekanisme Penyerapan Radiasi Neutron Konkrit Tetulang Gentian Prestasi Tinggi dengan Boron Karbida untuk Aplikasi Loji Reaktor Nuklear	FRGS/1/2011/TK/UKM/02/16	AP Dr. Rozilah Hamid, Co- Prof. Sahrim Ahmad	Fundamental Research Grant Scheme (FRGS)	235,500	2013-2014
TOTAL FUNDING RECEIVED (2013) = RM 613,500					

RESEARCH GRANT (cont'd)

RESEARCH GRANT- INDUSTRY (2012)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Synthetic Rubber Latex Abdullah	STGL-013-2012	Prof. Ibrahim	Fathills Sdn Bhd	10,000	2012
Super Absorbent Polymer from Seaweed as Soil Conditioner	STGL-007- 2010/15	Prof. Rusli Daik	Perikanan	120,000	2012
Feasibility Study of Fatty Acid Production from Palm Oil	STGL-006-2012	Dr. Rizafizah Othaman	OREC	10,000	2012
TOTAL FUNDING RECEIVED (2012) = RM 140,000					

RESEARCH GRANT- INDUSTRY (2013)

Project Title	Project Code	Project Head/ Collaborator	Host	Amount (RM)	Duration
Production of Natural Oil Polyurethane Polyols	UCIP150	AP Dr. Khairiah Binti Badri	Cradle Fund	150,000	2013
TOTAL FUNDING RECEIVED (2013) = RM 150,000					