

No.	Project Title	Project Leader	Institution	Research Cluster
1	The study of Solar Activities for Space Weather Application through Radio Astronomy	Mhd Fairos Asillam	Agensi Angkasa Negara (ANGKASA)	SEA TO SPACE
2	Investigation into Decomposition of Hydroxylammonium Nitrate (HAN) - Based Monopropellant via Electrolytic Ignition Method	Tengku Farah Wahida Ku Chik	Agensi Angkasa Negara (ANGKASA)	SEA TO SPACE
3	Realibility Study on Ionosphere Model for SBAS System	Nyanasegari A/P Bhoo Pathy	Agensi Angkasa Negara (ANGKASA)	SEA TO SPACE
4	The development of tumour antigen-derived peptide vaccines for cancer therapy	Cheong Sok Ching	Cancer Research Initiatives Foundation (CARIF)	BIOTECHNOLOGY
5	Malware Auto Analyzer, Detector and Removal Toolkit based on x86 Disassembler and Emulator	Lee Ling Chuan	Cyber Security Malaysia (CSM)	ICT
6	Improving the Recovery of Rubberwood Dimension Stocks from Saw-dry-rip (SDR) Process, Incorporating High Temperature Drying.	Sik Huei Shing	Forest Research Institute of Malaysia (FRIM)	INDUSTRY
7	Determination Of Conversion Factor From Small Clear Specimen To EN 408 Strength Values For Malaysian Timbers	Mohd Jamil bin Abdul Wahab	Forest Research Institute of Malaysia (FRIM)	INDUSTRY
8	Development Of Moulded Laminated Bamboo Veneer As Components For Selected Furniture Design	Abdul Hamid bin Saleh	Forest Research Institute of Malaysia (FRIM)	INDUSTRY
9	Impact of Selective Logging on Tree Diversity, Soil Properties, Carbon Stock and Sustainability of Key Timber Species Population in an Upper Hill Dipterocarp Forest, Peninsular Malaysia.	Abd. Rahman bin Kassim	Forest Research Institute of Malaysia (FRIM)	S&T CORE
10	Genetic and Morphological Characterisations of Fragrant Rice Cultivars for Irrigated Area in Sabah	Magdalene Chong Mey Fung	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
11	Characterisation Of Bioactive Metabolites Isolated From Tiger's Milk Mushroom (Lignosus rhinocerus)	Lai Wei Hong	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY

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12	Dietary phytochemical strategy for obesity and obesity-linked diseases using metabolomic approach	Azizah binti Abdul Hamid	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
13	Bioreactor platform for enhancing the production of useful secondary metabolites from hairy roots of Kacip Fatimah ( <i>Labisia pumila</i> var. <i>alata</i> )	Norihan binti Mohd. Saleh	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
14	Evaluation of Probiotic Formulations for the Control of Coccidiosis in Broiler Chickens	Loo Shu San	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
15	Genetic engineering of rice resistant against Goldan Apple Snail ( <i>Pomacea canaliculata</i> ).	Norsharina Md Saad	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
16	Nutritional Biotechnology Application in Enhancing Growth Rate and Flesh Quality and Functionality of Malaysian Mahseer ( <i>Tor tambroides</i> )	Marilyn Jaoui Edward	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
17	Genetic Engineering of Gibberelin Catabolism in Malaysian Rice MR 219	Johnson Chong	Institut Agro-Bioteknologi Malaysia (ABI)	BIOTECHNOLOGY
18	Application of toxicogenomics and conventional toxicology for safety assessments of bioactive compounds derived from <i>Mitragyna speciosa</i>	Mohamed Isa Bin Abd Majid	Institut Farmaseutikal Dan Nutraceutikal Malaysia (IPHARM)	BIOTECHNOLOGY
19	Development of an in vitro Anti-Trypanosomal Assay in 384-Well Format for High Throughput Screening of <i>Trypanosoma brucei rhodesiense</i>	Mohd Ilham bin Adenan	Institut Farmaseutikal Dan Nutraceutikal Malaysia (IPHARM)	BIOTECHNOLOGY
20	Development of High-Throughput-Screening (HTS) Assay For Screening of PPAR-gamma Ligand.	Chong Shu Chien @ Alexander	Institut Farmaseutikal Dan Nutraceutikal Malaysia (IPHARM)	BIOTECHNOLOGY
21	Formulation of P[3HB-co-4HB] Nanoparticles for Anti-cancer and Anti-tuberculosis Drug Delivery System	Mohamed Isa Bin Abd Majid	Institut Farmaseutikal Dan Nutraceutikal Malaysia (IPHARM)	BIOTECHNOLOGY
22	Postgenomic Discovery of Small Hypothetical Proteins from <i>Bacillus Levensis</i> G1 Alkaliphile	Mohd Basyaruddin Bin Abdul Rahman	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY

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23	Peptides Design and Synthesis Based on Enzyme Mimic for Industrial Needs	Mohd Basyaruddin Bin Abdul Rahman	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
24	Elucidating the Gaharu Resin and Other Biosynthetic Pathways by Large Scale Transcriptome and Metabolite Profiling	Sheila Nathan	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
25	High Throughput Screen of Synthetic and Small Molecules as Anti-Infectives	Sheila Nathan	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
26	Identification of novel enzymes for total utilization of biomass via transcriptomics of termite digestome	Nor Muhammad Mahadi	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
27	Resequencing, Transcriptome profiling and Bioinformatics-Based Analyses of a Novel Indigenous Hyperthermophilic Geobacillus species for Industrial Biotechnology Applications	Amir Feisal Merican bin Aljunid Merican	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
28	Genome Based Robust Enzymes Discovery For Industrial Applications: Proteomics identification of secreted enzymes from Bacillus lehensis G1	Nor Muhammad Mahadi	Institut Genom Malaysia (MGI)	BIOTECHNOLOGY
29	Molecular Markers For Vascular Streak Dieback Disease Resistant Clones	Nuraziawati binti Mat Yazik	Lembaga Koko Malaysia (LKM)	BIOTECHNOLOGY
30	Mass Propagation of High-Yielding Cocoa Clones	Norasekin Tamchek	Lembaga Koko Malaysia (LKM)	BIOTECHNOLOGY
31	Development Of A Novel Cocoa-Scented Perfume	Azila binti Abdul Karim	Lembaga Koko Malaysia (LKM)	S&T CORE
32	Developement of Pisang Berangan (Musa accuminata sp.) with resistance to Fusarium wilt through in vitro mutagenesis.	Maimun binti Tahir	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
33	Potential of biochar from rice husk as inoculant-carrier for nitrogen fixing bacteria	Mohammad Hariz Bin Abdul Rahman	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY

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34	High throughput fingerprinting using IMP [Inter-Miniature Invert Repeat Terminal Element (MITE) polymerase] marker technology on MARDI's papaya germplasm for diseases resistant traits	Khairun Hisam bin Nasir	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
35	Biopesticidal Properties Of Essential Oil Extracted From Jeremin (Pelargonium Radula)	Razali Bin Mirad	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
36	Development Of Immuno-based Rapid Assay For Assessing Population Of Colletotrichum capsici And Colletotrichum gloeosporioides On Chilli Crop As Early Warning System For Anthracnose Disease	Norhafniza binti Awaludin	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
37	Immuno-Biosensor development for early warning system of dinoflagellate (Alexandrium sp.) producing bio-toxin (saxitoxin) in aquaculture industry	Faridah binti Salam	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
38	Epidemiology And Biocontrol Of Papaya Dieback Disease In Malaysia	Rozeita bte Laboh	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
39	Alternative protein produced from POME as additives for poultry	Jame'ah Binti Hamed	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
40	Development of Virgin Coconut Oil Emulsion Based Products as Functional Food Supplement.	Sharifah Zarah Syed Ahmad	Malaysian Agricultural Research & Development Institute (MARDI)	BIOTECHNOLOGY
41	Evaluation Of Interim Technology Package Of Aerobic Rice In Sabah	Helda Souki	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
42	Optimising Amino Acid Utilization From Protein Sources For Fish Nutrition	Mardhati binti Mohammad	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
43	Glasshouse evaluation of microbial antagonists for suppression of plant pathogen Erwinia chrysanthemi	Nor Ayshah Alia Binti Ali Hassan	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE

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44	Potential Of 'Chinese Boxthorn' ( <i>Lycium chinensis</i> ) For Soil Erosion Control In Vegetable Farm	Khasifah binti Muhamad	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
45	Evaluation and Utilization of Rubber Processing by-product and Feather Meal as Feed Ingredients in Fish Nutrition	Wong Hee Kum	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
46	Design and development of on-slope greenhouse system (OSGH) with minimal ground cuts for control of erosion, environmental quality and establishment of good agricultural practices.	Mat Sharif Ismail	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
47	Lutein From Sweetpotato ( <i>Ipomoea Batatas</i> ) Leaves For Development Of Functional Snack	Jeeven Karruppan	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
48	Efficacy Of Formulated Nucleopolyhedrosis Viruses (fnpvs) Against <i>Plutella xylostella</i> , <i>Spodoptera exigua</i> and <i>Spodoptera litura</i>	Siti Noor Aishikin binti Abdul Hamid	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
49	Evaluation and selection of high yield, dwarf and good quality mango from open-pollinated population	Mohd Azhar Hassan	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
50	Development Of A Continuous Processing System for Production Of Stackable Crisp (pringle Like) For Small/medium Scale Processing Plant.	Zolkafli bin Aris	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
51	Efficacy Of <i>Beauveria bassiana</i> And <i>Hirsutella citriformis</i> as a Biological Control Agent Against The Brown Planthopper, <i>Nilaparvata lugens</i> stal. In Rice Ecosystem In Malaysia.	Maisarah Mohamad Saad	Malaysian Agricultural Research & Development Institute (MARDI)	S&T CORE
52	Effects of Water Management System on Aerobic Rice Performance in Different Rain-fed Areas	Chan Chee Sheng	Malaysian Agricultural Research & Development Institute (MARDI)	SEA TO SPACE
53	Quantification of improvement of phosphorus and nitrogen nutrition of vegetable crops from phosphate solubilizing bacteria and rhizobacteria interaction using isotopic tracer technology	Phua Choo Kwai Hoe	Malaysian Nuclear Agency (NUCLEAR)	BIOTECHNOLOGY

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54	Development Of Nano Particles Of Epoxidized Rbd Palm Olein Acrylate (EpoLa) As Drug Carrier In Delivery System Using Ionizing Radiation Technique	Rida Anak Tajau	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
55	Development of Portable Ultrasonic Tomography for Agarwood Evaluation	Mohd Noorul Ikhsan bin Ahmad	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
56	Development of Boron-Selective Adsorbent using Radiation Induced Grafting Technique	Ting Teo Ming	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
57	Application of Nano-hybrid Biocomposite for Development of Intergrated Aquacultural Cage Via Radiation Induced Process	Mohd Faizal Abdul Rahman	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
58	Treatment of Textiles Industrial Wastewater by E-Beam: Effect of Decolouration on Biodegradability	Khomsaton Abu Bakar	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
59	Application of Radiation in the Development of Microwave Absorbing Ferrite-TPNR Nanocomposite	Sivanesan A/L Appadu @ Appasamy	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
60	Study and development of multifunctional nano-TiO2 paint	Meor Yusoff bin Meor Sulaiman	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
61	Development of high temperature high pressure (HTHP) test rig for industrial radiotracer application	Noraishah Bt Othman	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
62	Low-dimensional Nanostructures for Hydrogen Gas Sensing	Kok Kuan Ying	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
63	Development of an integrated induction thermography system for the detection and evaluation of pipeline imperfection in nuclear power plan (NPP)	Ilham Mukriz Zainal Abidin	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
64	Development of Ferro-electric Materials for High-frequency RFID Sensor Applications	Che Seman Mahmood	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY

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65	identification of palm oil mill effluent (pome) as a source of contamination in water bodies using nuclear forensic technique	Roslanzairi Bin Mostapa	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
66	Development of Hyperbranched Curable Resin from Palm Oil	Mek Zah Salleh	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
67	Development of Polymer Based Radiation-Sensitive Indicator for Dosimetry of High Energy Ionizing Radiation	Naurah Mat Isa	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
68	Development of electrospun polymer nanofibers based natural rubber (NR) using electrospinning technique.	Mahathir Bin Mohamed	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
69	Radiation Modified Polymeric Material for Active Packaging Applications	Zulkafli bin Ghazali	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
70	Production of cross-linked carboxymethyl sago starch using irradiation in alkyne gas for industrial application	Zainon Binti Othman	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
71	Damage Analysis and Life Extension for Boilers and Components Under Extreme Environment	Mohd Bin Harun	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
72	Development of Advance Nuclear Imaging and Mechanism for Distillation Column	Ismail Bin Mustapha	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
73	Development of Polyvinyl Chloride / Epoxidized Natural Rubber /Carbon Nanotubes Nanocomposites by using Electron Beam Irradiation	Chantara Theyy Ratnam	Malaysian Nuclear Agency (NUCLEAR)	INDUSTRY
74	Development of the gaharu resin production via the inducement technology in Aquilaria beccariana	Chong Saw Peng	Malaysian Nuclear Agency (NUCLEAR)	S&T CORE
75	Lichens as biomonitors for actinides and trace elements pollutants in urban, industrial and reference areas of Malaysia.	Wee Boon Siong	Malaysian Nuclear Agency (NUCLEAR)	S&T CORE

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76	Development of advanced and promising mutant lines derived from mutagenesis of <i>Oryza sativa</i> cv MR219 for drought-tolerant, blast resistant and quality traits	Abdul Rahim Harun	Malaysian Nuclear Agency (NUCLEAR)	S&T CORE
77	The Extent and Impact of the Releases of Radioactivity from the Fukushima Daiichi Nuclear Power Plant Accident into Malaysian Marine Environment	Abdul Kadir bin Ishak	Malaysian Nuclear Agency (NUCLEAR)	SEA TO SPACE
78	Pulse Laser-assisted Nano-texturing of Silicon Surface with Double Nano-textured ZnO Transparent Conducting Oxide Growth for Effective Photon Entrapment in High Efficiency HIT-Silicon Solar Cell for WSN	Gunawan Witjaksono	MIMOS Berhad (MIMOS)	ICT
79	A Predictive Centralized Protocol for Enabling Seamless Layer-2 Roaming Capabilities in secured Wi-Fi Access Environment	Shariq Haseeb	MIMOS Berhad (MIMOS)	ICT
80	Effective Differentiation Multihopping in Optimizing Wireless Access and Backhaul Networks	Kwong Kae Hsiang	MIMOS Berhad (MIMOS)	ICT
81	Coverage and Capacity Optimization for 4G Heterogeneous Multi-hop Broadband Wireless Networks	Chieng Heng Tze	MIMOS Berhad (MIMOS)	ICT
82	Seamless Inter Network Mobility for Nodes in Personal Area Network using IPv6 Protocol	Gopinath Rao Sinniah	MIMOS Berhad (MIMOS)	ICT
83	Reducing Server Workload and Long-Distance Traffic with Server Mobility and Dynamic Traffic Redirection	Choong Khong Neng	MIMOS Berhad (MIMOS)	ICT
84	Distributed Cooperative Sensing Mechanism and Dynamic Spectrum Management for Wireless Mesh Networks	Hafizal bin Mohamad	MIMOS Berhad (MIMOS)	ICT
85	Cooperative Interference and Detection for Cognitive Radio Networks	Nordin Bin Ramli	MIMOS Berhad (MIMOS)	ICT
86	Enabling AVQoS for Adaptive Streaming in Heterogeneous Network Environment Utilizing Non-Intrusive Bandwidth Information	Ettikan Kandasamy Karupiah	MIMOS Berhad (MIMOS)	ICT



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87	An Intelligent and Cognitive Selection Mechanism for Multiple Wireless Broadband Technologies	Wahidah Hashim	MIMOS Berhad (MIMOS)	ICT
88	Statistical Background Modelling and Object Extraction in Dynamic Scene	Hon Hock Woon	MIMOS Berhad (MIMOS)	ICT
89	Certificate-free Key Infrastructure for Large Distributed Networks	Poh Geong Sen	MIMOS Berhad (MIMOS)	ICT
90	Addressing cognitive overload with automated camera view selection in an augmented virtual environment	Chan Ching Hau	MIMOS Berhad (MIMOS)	ICT
91	An Overlay Network for Service Specific Applications in Virtualized Environment	Ong Hong Hoe	MIMOS Berhad (MIMOS)	ICT
92	An Open and Robust Architecture for Internet of Things Using a New Layered Protocol Approach	Mazlan Abbas	MIMOS Berhad (MIMOS)	ICT
93	Low Power, High Resolution, Low Noise, Unified Sensor Electronics	Chia Chieu Yin	MIMOS Berhad (MIMOS)	ICT
94	Highly Sensitive Sub-PPM Molecular Detection Nanosensors based on 2-D graphene nanolayer for Wireless Sensor Network (WSN) Applications	Daniel Bien Chia Sheng	MIMOS Berhad (MIMOS)	ICT
95	Enabling Fast and Accurate Image Analysis for Detecting Abnormal Human Posture Utilizing Software Reconfigurable Processor	Luke Jing Yuan	MIMOS Berhad (MIMOS)	ICT
96	Research into method for indexing the Linked Open Data cloud to facilitate the distributed query of semantic knowledge	Dickson Lukose	MIMOS Berhad (MIMOS)	ICT
97	New innovative Data Mining and Information Retrieval Techniques for Intelligent Automatic Request Personalization in User Aware Application	Kiu Ching Chieh	MIMOS Berhad (MIMOS)	ICT

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98	Optimisation of Adaptive Testing Algorithms and Item Selection for Computerised Adaptive Testing (CAT) Delivery	Haniza Yon	MIMOS Berhad (MIMOS)	ICT
99	An Ontology-based Integrated Model for Automatic Knowledge Analytic Discovery	Kow Weng Onn	MIMOS Berhad (MIMOS)	ICT
100	Multi-Feature Optimization Modelling for Object Recognition in Conceptualizing Domain Independent Images	Bong Chin Wei	MIMOS Berhad (MIMOS)	ICT
101	Double Sided High Density Solid State Carbon Nanotube based Ultracapacitor for Microenergy Storage in Green Technology	Teh Aun Shih	MIMOS Berhad (MIMOS)	INDUSTRY
102	A Unified Quasi-Distributed Optical Sensing For Aquaculture Based on Nanomaterial Doped Optical Fiber	Suhairi Saharudin	MIMOS Berhad (MIMOS)	S&T CORE
103	Algorithms for Organizing and Managing Conceptual Graph Database	Chien Su Fong	MIMOS Berhad (MIMOS)	S&T CORE
104	Polarization Rotated Interferometer Approach on Portable and Contactless Spectroscopy Optical Detection for Biomedical Application Utilizing Phase Controlled Connes Technique.	Zalhan Md Yusof	MIMOS Berhad (MIMOS)	S&T CORE
105	Optimization of Latent Trait Theory and True Score Test Theory in Instructional Competencies Item Bank	Lee Leh Hong	MIMOS Berhad (MIMOS)	S&T CORE
106	Omnidirectional Surveillance System Featuring Trespasser and Faint Detection for i-Habitat	Wong Wai Kit	Multimedia University (MMU)	ICT
107	Development of Local Silica Sand Moulding for Aluminium Alloys and Copper Alloys Precision Casting.	Siti Zaleha Mohd Nor	SIRIM Berhad (SIRIM)	INDUSTRY
108	Development of inorganic-organic hybrid thin film matrices with stable photochromism for high security marks applications	Mohamad Zahid bin Abdul Malek	SIRIM Berhad (SIRIM)	INDUSTRY

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109	Fabrication of light weight nanostructured aluminium foam for high impact energy absorbing component in automotive application using isostatic pressure assisted sintering process	Mazli bin Mustapha	SIRIM Berhad (SIRIM)	INDUSTRY
110	Development of Red Emission of Europium (tta) <sub>3</sub> phen Complex Doped Low-Density Polyethylene Film for Agricultural Greenhouse Application	Nik Mohd Azmi Bin Nik Abdul Aziz	SIRIM Berhad (SIRIM)	INDUSTRY
111	Development of Inconel 718 Parts using Super Critical Carbon Dioxide (CO <sub>2</sub> ) Debinding Technique for Potential Aerospace Industry Application	Rosdi bin Ibrahim	SIRIM Berhad (SIRIM)	INDUSTRY
112	Surface Treatment To Improve The Interfacial Properties of Aluminium-Carbon Composite Systems For Hi-Pressure Vessel Application	Haslan Fadli Bin Ahmad Marzuki	SIRIM Berhad (SIRIM)	INDUSTRY
113	Development of Lithium Silicate as Cathode Material for Li-ion Battery Application	Mohamad Izha Bin Ishak	SIRIM Berhad (SIRIM)	INDUSTRY
114	Development of Composite Lithium Titanate Oxide as an Anode Material for Li-ion Battery Application	Hasimah Hasan	SIRIM Berhad (SIRIM)	INDUSTRY
115	Application of Core-Shell Quantum Dots for Glucose Monitoring	Samsulida Abd. Rahman	SIRIM Berhad (SIRIM)	INDUSTRY
116	The synthesis of nanostructured 2H-SiC for metal oxide semiconductor field effect transistor application	Eliasidi Bin Abu Othman	SIRIM Berhad (SIRIM)	INDUSTRY
117	Development of Alumina Ceramics For LED Heat Sink Application	Teng Wan Dung	SIRIM Berhad (SIRIM)	S&T CORE
118	Geographic Information System - Decision Support System (GIS-DSS): Towards Environmental Health Indicator for Poultry Husbandry	Nini Sopian	SIRIM Berhad (SIRIM)	S&T CORE
119	Availability, Application and Accessibility (A3) methodology for assessment of sustainability of biomass utilization technology.	Chen Sau Soon	SIRIM Berhad (SIRIM)	S&T CORE

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120	Production of vanillin by in vitro transformation of <i>Capsicum frutescens</i>	Chin Chiew Foan	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	BIOTECHNOLOGY
121	Automated Intelligent system for medical waste segregation and reuse using neuro-fuzzy logic	Ramani Bai V.	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	ICT
122	Software System for Design of Linear and Nonlinear Controllers for Nonlinear SISO and MIMO Plants	Amir Nassirharand	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	ICT
123	A novel low-cost multiplexing technique for optical communication systems in order to bridge the digital divide	Amin Malekmohammadi	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	ICT
124	Production of Biofuel from Agricultural Residues via Fast Pyrolysis Process and Upgrading	Feroz Kazi Md Kabir	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	INDUSTRY
125	Development of a thermoacoustic heat engine for rural application	Yousif Abdalla Abakr	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	S&T CORE
126	Urban heat island in Malaysia	Andy Chan	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	S&T CORE
127	Augmenting the removal of active ingredients of <i>Ganoderma lucidum</i> and their encapsulation in the Nanosized Liquid Vehicles (NLVs) to improve the bioavailability using ultrasonic cavitation	Sivakumar Manickam	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	S&T CORE
128	Development of Eco-friendly and Biocide-free Maritime Antifouling Coating Based on Silver Nanoengineering Technology	Khiew Poi Sim	The University of Nottingham in Malaysia Sdn.Bhd. (Nottingham)	SEA TO SPACE
129	Proof-of-concepts study of injectable non-viral gene delivery system of DNA-loaded <i>N.Sativa</i> /chitosan/PLGA nanoparticle to neuron cell lines (Neurobionanoparticles-CR)	Dr. Farahidah Mohamed	Universiti Islam Antarabangsa Malaysia (UIAM)	BIOTECHNOLOGY
130	Development of a Mapping Robot	Nahrul Khair Alang Md. Rashid	Universiti Islam Antarabangsa Malaysia (UIAM)	INDUSTRY

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131	Hardware Prototyping of Photoplethysmography Based Cardiac Monitoring Technique for Devising a Practical Remote Health Monitor	Muhammad Ibn Ibrahimy	Universiti Islam Antarabangsa Malaysia (UIAM)	INDUSTRY
132	Quality of Life and Psychological Disabilities among Chronic Renal Failure Patients.	Ramli Musa	Universiti Islam Antarabangsa Malaysia (UIAM)	S&T CORE
133	Rare earth elements (REEs) and trace metals studies in rocky shore organisms, related to those in sediment along Peninsular Malaysia coastal waters	Kamaruzzaman bin Yunus	Universiti Islam Antarabangsa Malaysia (UIAM)	SEA TO SPACE
134	Mode of Antibacterial Action of Chitosan Based Nanoparticles on Gram Positive and Gram Negative Bacteria	Haliza Katas	Universiti Kebangsaan Malaysia (UKM)	BIOTECHNOLOGY
135	Development and characterization of novel siRNA loaded polymeric micelles based on chitosan-pluronic-folic acid for the targeted delivery of anticancer drugs	Mohd Cairul Iqbal bin Mohd Amin	Universiti Kebangsaan Malaysia (UKM)	BIOTECHNOLOGY
136	Spiking-LVQ Network for Brain Tumor Detection	Shahnorbanun Binti Sahran	Universiti Kebangsaan Malaysia (UKM)	ICT
137	Development of Hydrogen Production System by Ethanol Steam Reforming Over Mixed Oxide Catalyst	Zahira Yaakob	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
138	System Development for Endothelial and Erectile Dysfunction Diagnosis Based on Pulse Wave Velocity Characterization	Mohd. Alauddin bin Mohd. Ali	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
139	Scale-up of oscillatory flow bioreactor	Mohd Sobri Takriff	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
140	Boundary Element Analysis Of Metal Corrosion Using Polarization Curve	Ahmad Kamal Ariffin Mohd Ihsan	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
141	Development of inverted type bulk heterojunction organic solar cell using dye-coated ZnO nanorods as electron collecting electrode	Yap Chi Chin	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY

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142	Development of Paddy Waste as an Alternative Plant-Based Corrosion Inhibitors for Metal Alloys	Norinsan Kamil Othman	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
143	A Smart Wireless Sensor Network for Microcrack Detection and Monitoring in Common Building and Bridge Structures.	Muhammad Fauzi Bin Mohd Zain	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
144	New room temperature diluted magnetic semiconductor oxide (DMSO) based on In:Cr and In:Co film for spintronic application	Noor Baa'yah binti Ibrahim	Universiti Kebangsaan Malaysia (UKM)	INDUSTRY
145	Distribution And Sources Of Organic Biomarkers In Surface Sediments From Selected Sites Along The Malacca Straits	Masni binti Mohd Ali	Universiti Kebangsaan Malaysia (UKM)	SEA TO SPACE
146	Population biology, feeding physiology and reproductive potential of selected resilience fish species in Malaysian estuarine ecosystem.	Mazlan bin Abd. Ghaffar	Universiti Kebangsaan Malaysia (UKM)	SEA TO SPACE
147	Specific, Sensitive and Rapid Detection of Plasmodium knowlesi Infection in Malaria Patients by Loop-mediated Isothermal Amplification (LAMP) Method	Lau Yee Ling	Universiti Malaya (UM)	BIOTECHNOLOGY
148	Enhancing Osteogenic Differentiation of Mesenchymal Stem Cells Using Naturally Derived Platelet-Rich Plasma	Azhar Mahmood Merican	Universiti Malaya (UM)	BIOTECHNOLOGY
149	Development of a simplified and cost-effective technique for recovery of cyclodextrin glucosyltransferase (CGTase)	Ling Tau Chuan	Universiti Malaya (UM)	BIOTECHNOLOGY
150	Expression of influenza H1N1 epitopes on a plant virus nanobioparticle	Rofina Yasmin binti Othman	Universiti Malaya (UM)	BIOTECHNOLOGY
151	Advanced Control of a Tubular-Solid Oxide Fuel Cell	Mohamed Azlan bin Hussain	Universiti Malaya (UM)	INDUSTRY
152	Effect of Particle Size of Fatty Acid Nanocrystals in Cream For Dermal Delivery of Substances Into Skin	Misni bin Misran	Universiti Malaya (UM)	INDUSTRY

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153	Targeted Drug Delivery System Using Nanoparticles And High Intensity Focused Ultrasound (HIFU)	Basri Johan Jeet Bin Abdullah	Universiti Malaya (UM)	S&T CORE
154	Highly efficiency solution processable photocrosslinkable organic tandem light emitting diode:towards high efficiency white light	Woon Kai Lin	Universiti Malaya (UM)	S&T CORE
155	Feasibility Study on Herb Leaves Recognition Algorithm Using Vision Techniques and Odour Sensing for Herbs and Plant Classification and Data Warehousing Expert System	Zulkifli Bin Husin	Universiti Malaysia Perlis (UniMAP)	ICT
156	Development of Prototype Virtual Reality Surgical Simulator with Haptic Force Feedback for Phacoemulsification Cataract Surgery Training	Kenneth Sundaraj	Universiti Malaysia Perlis (UniMAP)	S&T CORE
157	Piezoelectric Material as a New Electrical Power Generator	Jedol Dayou	Universiti Malaysia Sabah (UMS)	INDUSTRY
158	Low-Cost and Sustainable Technology for Harvesting Humic Acids	Sim Siong Fong	Universiti Malaysia Sarawak (UNIMAS)	S&T CORE
159	An Integrated Decision Support System using Grid Environment for Forensic DNA Analysis in Crime Investigation	Noor Maizura Mohamad noor	Universiti Malaysia Terengganu (UMT)	ICT
160	Numerical modeling and field measurement of current circulation and physical processes in southern South China Sea	Mohd Fadzil	Universiti Malaysia Terengganu (UMT)	SEA TO SPACE
161	Isolation and characterization of feline retroviruses	Siti Suri binti Arshad	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
162	Halal collagen from chicken by-product for cosmetic and personal care applications	Puziah Hashim	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
163	Jatropha curcas L. kernel meal as a biofeed	Norhani binti Abdullah	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY

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164	The role of cytochrome P450 and inflammatory response in the hepatoprotective action of plant natural sources	Sharida binti Fakurazi	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
165	Dissecting the role and function of a putative multifunctional protein	Mohd Shukuri Mohamad Ali	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
166	Surface Alteration of Recombinant Hepatitis B Virus Capsid with a Novel Universal 'Nano-Glue' for Cell Targeting Delivery	Tan Wen Siang	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
167	High Immunity Breeds Selection of Epinephelus fuscoguttatus (tiger grouper) Fingerlings against Vibriosis through Transcriptome Array Assessment.	Norfarrah Bt Mohamed Alipiah	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
168	Establishment of Disease Resistance Protein Biomarker for Epinephelus fuscoguttatus (tiger grouper)	Mariana Nor binti Shamsudin	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
169	In vitro evaluation on the Anti-Atherogenic Effects of Macluraxanthone in Endothelial Cells	Zuraini binti Hj Ahmad	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
170	Development of recombinant baculoviruses expressing insect selective biopesticidal protease	Lau Wei Hong	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
171	Anti-pathogenic properties of plant protease inhibitors (PIs): Cloning and expression of Serpin 1 and Kunitz-type trypsin inhibitor genes from indigenous turmeric, Curcuma sp.	Noor Azmi Bin Shaharuddin	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
172	Repositioning and Discovery of New Non-steroidal Anti-inflammatory Drugs using Molecular Informatics Technique	Syahida Ahmad	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
173	Pulsed Field Dielectrophoretic-Field Flow Fractionation (DEP-FFF) Integrated with Optical Detection on a Biochip for Biological Application	Zurina Zainal Abidin	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY
174	Use of live bacteria as a novel cancer antigen delivery system	Khatijah binti Mohd Yusoff	Universiti Putra Malaysia (UPM)	BIOTECHNOLOGY



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175	A Linear-Temporal Formal Language for Context-Sensitive Security Policies in Cloud Computing	Ramlan Mahmud	Universiti Putra Malaysia (UPM)	ICT
176	An Effective Performance Evaluation System for Practical Quantum Key Distribution Protocols using OptiSystemTM	Zuriati Ahmad Zukarnain	Universiti Putra Malaysia (UPM)	ICT
177	Development of Intelligent Video Watermarking for Copyright Purposes	Wan Azizun binti Wan Adnan	Universiti Putra Malaysia (UPM)	ICT
178	Innovative Technology in the Production of Biogas from Animal Waste	Tinia Idaty Mohd. Ghazi	Universiti Putra Malaysia (UPM)	INDUSTRY
179	Crest Factor Reduction And Digital Predistortion Implementation In Orthogonal Frequency Division Multiplexing (Ofdm) Systems	Nasri bin Sulaiman	Universiti Putra Malaysia (UPM)	INDUSTRY
180	Surface Acoustic Wave Technology for Wireless Sensor Flammable Gas Detection	Mohd Nizar Hamidon	Universiti Putra Malaysia (UPM)	INDUSTRY
181	Teaching As A Career: A Comparative Study Of Teacher Trainees	Ab. Rahim Bakar	Universiti Putra Malaysia (UPM)	S&T CORE
182	Antiulcer Activity of Bauhinia purpurea Leaf Extracts: Determination of Their Mechanism of Actions and Isolation of the Responsible Bioactive Compounds	Zainul Amiruddin Zakaria	Universiti Putra Malaysia (UPM)	S&T CORE
183	Assessing The Walkability Of Tourism Places In Malaysian Cities	Norsidah Ujang	Universiti Putra Malaysia (UPM)	S&T CORE
184	Development Of Maturity Detector and Grading Machine for Pineapples Using Smart Sensor System	Rosnah binti Shamsudin	Universiti Putra Malaysia (UPM)	S&T CORE
185	Operational modal analysis of aeroelastically induced composite wind tunnel model	Dayang Laila Abang Haji Abdul Majid	Universiti Putra Malaysia (UPM)	S&T CORE

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186	Development of Fast Dispersible Natural Fruit Powder Tablets	Yus Aniza Yusof	Universiti Putra Malaysia (UPM)	S&T CORE
187	Development of High Speed Electronics Read-outs for Highly Sensitive Mobile Gamma Camera in Breast Cancer Imaging System	M. Iqbal Saripan	Universiti Putra Malaysia (UPM)	S&T CORE
188	Effect of oligosaccharide prebiotic on performance and egg quality of laying hens	Ho Yin Wan	Universiti Putra Malaysia (UPM)	S&T CORE
189	Modified Nickel-Cobalt Oxide/Activated Carbon Composite For Supercapacitors	Zulkarnain bin Zainal	Universiti Putra Malaysia (UPM)	S&T CORE
190	Development of food grade green lubricants	Robiah binti Yunus	Universiti Putra Malaysia (UPM)	S&T CORE
191	Design and Fabrication of a High Data Rates, Low Power Binary Phase Shift Keying Modulator for Capsule Endoscope	Suhaidi bin Shafie	Universiti Putra Malaysia (UPM)	S&T CORE
192	Economic Valuation of Mangrove Forest and Its Implications to Coastal Community	Awang Noor Bin Abd. Ghani	Universiti Putra Malaysia (UPM)	SEA TO SPACE
193	Identification of Malaysian Seagrasses using Morphology and Molecular Approach	Japar Sidik bin Bujang	Universiti Putra Malaysia (UPM)	SEA TO SPACE
194	Utilization of Aquatic Macrophytes for Papermaking	Muta Harah bt Zakaria@Ya	Universiti Putra Malaysia (UPM)	SEA TO SPACE
195	Multistatic Synthetic Aperture Radar for Airport Runway Safety	Raja Syamsul Azmir Bin Raja Abdullah	Universiti Putra Malaysia (UPM)	SEA TO SPACE
196	Development of a Novel Approach Multiplex LATE-PCR Electrochemical-Enzyme Based DNA Sensor for Sequence-Specific Detection of Vibrio cholerae	Chan Yean Yean	Universiti Sains Malaysia (USM)	BIOTECHNOLOGY

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197	The Development And Implementation Of An Intelligent Tracking And Monitoring System Using Embedded Wireless Sensor Network (Wsn) With Radio Frequency Identification (Rfid) For Industrial Automation	Widad Ismail	Universiti Sains Malaysia (USM)	ICT
198	Floc Characteristic Optimization Of Synthetic Polymeric Flocculant Based On DADMAC Monomer For Selective Waste Water Treatment.	Azlan bin Ariffin	Universiti Sains Malaysia (USM)	INDUSTRY
199	Potential of oil palm ash as a new filler in natural rubber compounds	Hanafi Ismail	Universiti Sains Malaysia (USM)	INDUSTRY
200	Development of Fine-grained Parallel hp-Adaptive Finite Element Method for Analysis of Micro-power Generation in Microcombustors	Muhammad Razi Abdul Rahman	Universiti Sains Malaysia (USM)	S&T CORE
201	Design and development of Substrate Integrated Waveguide Filters	Badrul Hisham Ahmad	Universiti Teknikal Malaysia Melaka (UTeM)	INDUSTRY
202	Development of Sustainability Model of ISO14001 Standards through an integration with Lean Principles	Puvasvaran A/L A.Perumal	Universiti Teknikal Malaysia Melaka (UTeM)	S&T CORE
203	Development of DNA Aptamers as Ligand for Diagnosis of Influenza A H1N1	Chan Giek Far	Universiti Teknologi Malaysia (UTM)	BIOTECHNOLOGY
204	FPGA-based Secure Embedded System for Personel Authentication using Finger Vein Biometrics	Mohamed Khalil bin Hj Mohd Hani	Universiti Teknologi Malaysia (UTM)	ICT
205	Design and Fabrication of Double Negative Material for Microwave Application	Mohamad Kamal bin Abdul Rahim	Universiti Teknologi Malaysia (UTM)	ICT
206	Standalone Digital signal processing (DSP) Design for Biomedical Signal Processing Based on Kalman Filtering	Sheikh Hussain bin Shaikh Salleh	Universiti Teknologi Malaysia (UTM)	ICT
207	A real-time, intelligent in-vehicle Driver Drowsiness Detection Device based on an embedded System-on-Chip (SoC) in FPGA microchip technology	Mohamed Khalil bin Hj Mohd Hani	Universiti Teknologi Malaysia (UTM)	INDUSTRY

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208	Catalytic Oxidative Desulfurization of Diesel utilizing Peroxides and supported Transition metals doped Molybdenum Oxide and Manganese Oxide catalysts	Wan Azelee bin Wan Abu Bakar	Universiti Teknologi Malaysia (UTM)	INDUSTRY
209	Nanostructured Herbs Delivery System	Halimaton binti Hamdan	Universiti Teknologi Malaysia (UTM)	INDUSTRY
210	Multiple and Simultaneous Lightning Strike Interaction with Reticulated Gas Pipeline Systems	Zulkurnain Abdul-Malek	Universiti Teknologi Malaysia (UTM)	S&T CORE
211	Hybrid FSO/RF Communication System for Wireless Broadband Services	Abu Bakar bin Mohammad	Universiti Teknologi Malaysia (UTM)	S&T CORE
212	Magnetic Induction Tomography (MIT) for Low Conductivity Materials	Ruzairi bin Hj Abdul Rahim	Universiti Teknologi Malaysia (UTM)	S&T CORE
213	Coastal erosion studies of the east coast and vulnerable small island regions of Peninsular Malaysia	Noraieni binti Hj. Mokhtar	Universiti Teknologi Malaysia (UTM)	SEA TO SPACE
214	The effect of Ranibizumab on human Tenon's fibroblast and its potential use as a novel anti-scarring agent for glaucoma surgery	Sushil Kumar Vasudevan	Universiti Teknologi MARA (UiTM)	S&T CORE
215	The Impact of Cook Chill Technology on Physicochemical Properties, Nutritional Value, Shelf life of food and Consumer Acceptability of Malaysia Food Product	Norhidayah Binti Abdullah	Universiti Teknologi MARA (UiTM)	S&T CORE
216	Real Time Implementation and Simplification of An Orthogonal Space Time Turbo Trellis Continuous Phase Modulation with Optimizing Trellis States and Matched Filters Algorithms.	Roslina Binti Mohamad	Universiti Teknologi MARA (UiTM)	S&T CORE
217	An application of a MEMS Resonator Based Microhotplate Platform as a Mass Sensitive Flammable Gas Sensor	Mohd Haris b Md Khir	Universiti Teknologi PETRONAS (UTP)	ICT
218	One-Pot Low Temperature Methanol Synthesis from Carbon Dioxide and Hydrogen	Maizatul Shima bt Shaharun	Universiti Teknologi PETRONAS (UTP)	INDUSTRY

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219	Novel subspace technique for extracting brain signals from the background EEG colored noise	Nidal Kamel	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
220	The Synthesis of Silicon Carbide From The Carbothermal Reduction Process Using Local Silica Sand For High Temperature Wear Resistant Component Application.	Othman bin Mamat	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
221	Development of a novel Swirling Fluidization Technique for Bio-crude Refining	Vijay R. Raghavan	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
222	Reconfigurable GaAs RF Front End Integrated Circuits for Wireless Applications	Mohammad bin Awan	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
223	Numerical and Experimental Studies of Mechanical Behaviors of Carbon Nanotube/Polymer Composites	Mokhtar Awang	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
224	Off-peak gas turbine waste heat utilisation for stratified thermal energy storage system	Mohd Amin Abd Majid	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
225	Non-Invasive Ultrasound Imaging for Long Bone Fracture Detection	Irraivan Elamvazuthi	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
226	Development of an Integrated Approach for Scheduling and Online Optimization in a Large Process Plant	Nooryusmiza bin Yusoff	Universiti Teknologi PETRONAS (UTP)	INDUSTRY
227	Towards Zero Emission of Carbon Dioxide: A New Technique for Carbon Dioxide Capture by Clathrate Hydrate Formation	Khalik Bin Mohamad Sabil	Universiti Teknologi PETRONAS (UTP)	S&T CORE
228	An optimisation of the waste components, storage and handling process of fuel briquettes made from agricultural and farming wastes to enhance their utilisation as an alternative energy fuel source	Mohd Shiraz Aris	Universiti Teknologi PETRONAS (UTP)	S&T CORE
229	Design, Fabrication and Characterization of a MEMS Resonator for 3-D Detection of Static to Low Frequency Magnetic Fields	John Ojur Dennis	Universiti Teknologi PETRONAS (UTP)	SEA TO SPACE

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230	New Feedforward Constant-Amplitude Controller Based on Neural Network for Attitude Maneuvers of a Flexible Satellite by Using On-Off Reaction Jets	Setyamartana Parman	Universiti Teknologi PETRONAS (UTP)	SEA TO SPACE
231	IEEE 802.16 (WiMAX) Teletraffic Performance Improvement by Innovative Smart Antenna System	Tiong Sieh Kiong	Universiti Tenaga Nasional (UNITEN)	ICT
232	Development of Low Cost Low Head Reaction Turbine for Micro Hydro Application	Ibrahim bin Hussein	Universiti Tenaga Nasional (UNITEN)	INDUSTRY
233	A Novel Frontal Car Design Concept To Mitigate Pedestrian Casualties and To Improve Crashworthiness	Faris Tarlochan	Universiti Tenaga Nasional (UNITEN)	INDUSTRY
234	Fabrication of new read head for magnetic recording devices based high sintering magnetoresistive perovskite manganites	Ewe Lay Sheng	Universiti Tenaga Nasional (UNITEN)	INDUSTRY
235	The Determinants Of Foreign Direct Investment In Malaysian Industrial Sector (Electrical Machinery And Equipment)	Mahmoud Kh Mahmmoud Almsafir	Universiti Tenaga Nasional (UNITEN)	S&T CORE
236	Development of dexterous robotic arm and hand for deformable object manipulation	Khairul Salleh bin Mohamed Sahari	Universiti Tenaga Nasional (UNITEN)	S&T CORE
237	Identification of breast and prostate cancer stem cell DNA marker and evaluation of chemotherapeutic drugs on derived cancer stem cells	Alan Ong Han Kiat	Universiti Tunku Abdul Rahman (UTAR)	BIOTECHNOLOGY
238	Genetic engineering of Agrobacterium tumefaciens for enhanced plant transformation	Wong Hann Ling	Universiti Tunku Abdul Rahman (UTAR)	BIOTECHNOLOGY
239	Research and development of a hybrid luminescent and holographic solar concentrator integrated with bi-facial solar cells	Lim Yun Seng	Universiti Tunku Abdul Rahman (UTAR)	INDUSTRY
240	To develop a Brain-Computer Interface System using Steady State Visual Evoked Potentials for communication.	Goh Sing Yau	Universiti Tunku Abdul Rahman (UTAR)	S&T CORE

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241	Modelling Water Resources and Stormwater Management Strategies for Large Scale Dual-Function Rainwater Tanks Incorporating Climate Change and Urbanisation Scenarios	Huang Yuk Feng	Universiti Tunku Abdul Rahman (UTAR)	SEA TO SPACE