

List of Active External Funded Research Projects as of 31 December 2020

| No | Principal Investigator | Research Title | Funding Body | Amount Approved (RM) |
|-----------|-------------------------------|---|----------------------------------|-----------------------------|
| 1 | Akihiko Nakayama | Development of LES Program for Aerodynamic Vibration of Large Span Bridge | Kindai University | 17,920.00 |
| 2 | Akihiko Nakayama | Smoothed Particle Hydrodynamics for simulation of flow-sediment interaction in rivers and coasts | MOHE FRGS | 69,900.00 |
| 3 | Andy Chit Tan | Quantification and Localization of Water Pipeline Leaks through Innovative Acoustic Emission Data Processing Techniques | MOHE TRGS | 140,000.00 |
| 4 | Bee Soo Tueen | A study of graphite nanosheet/nylon composite based on graphite nanosheets treated with supercritical water | MOHE FRGS | 88,300.00 |
| 5 | Bernard Saw Lip Huat | Investigation of the cogeneration performance of hybrid rechargeable aluminium-air battery/fuel cell | MOHE FRGS | 87,700.00 |
| 6 | Chan Mun Yee | Potential of mangosteen (<i>Garcinia mangostana</i>) peel extract in ameliorating infertility due to oxidative stress on murine model | MOHE FRGS | 87,500.00 |
| 7 | Cheah Phaik Kin | Effective Teaching Methods | Akademi Laut Malaysia (ALAM) | 27,030.00 |
| 8 | Cheah Phaik Kin | Teaching Digital Natives | Akademi Laut Malaysia (ALAM) | 27,030.00 |
| 9 | Chee Pei Song | Study of Lenz law induced mechano-electric effect on wearable microfluidic based stretchable electronic skin | MOHE FRGS | 123,756.00 |
| 10 | Chee Pei Song | Vision aid PNP system with soft gripper | Greotech Integration (M) Sdn Bhd | 10,000.00 |
| 11 | Chen Huey Voon | Complete decompositions and | MOHE | 50,000.00 |

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| | | <i>exhaustive subsets of groups Evaluate Revision</i> | FRGS | |
| 12 | Cheng Ming Yu | <i>Regional Economic Cooperation: Implications and Challenges</i> | China Embassy | 70,900.00 |
| 13 | Cheng Ming Yu | <i>Shandong-ASEAN Economic Corporation: with Special Reference to the Potentials of the ASEAN International Eco City in Qihe</i> | Farlim Holding Berhad | 119,000.00 |
| 14 | Cheong Soon Keng | <i>Donation to support the Artificial Intelligence Projects under FMHS</i> | Donation (Prof Cheong Soon Keng) | 43,000.00 |
| 15 | Chew Kuew Wai | <i>Identification and Characterization of Beneficial Microbes from a Foliar Fertilizer for the Enhancement of Crop Productivity</i> | KL Automation Engineering Sdn Bhd | 47,000.00 |
| 16 | Chia Gek Ling | <i>Unsolved Problems in Combinatorics with Emphasis on Graph Theory.</i> | MOHE FRGS | 51,000.00 |
| 17 | Chin Hon Choong | <i>Developing A Novel Community Acceptance Model to Facilitate the Implementation of Waste Incinerator</i> | MOHE FRGS | 90,200.00 |
| 18 | Chin Yee Mun | <i>A Study of Chinese Voters' Perception</i> | Malaysian Chinese Association (MCA) | 258,000.00 |
| 19 | Chin Yee Mun | <i>Written Materials and Artefacts</i> | Kelab Gecinta Malaysia | 100,000.00 |
| 20 | Chong Shyue Chuan | <i>A Framework for Effective and Sustainable Non-Revenue Water (NRW) Management</i> | MOHE TRGS | 100,000.00 |
| 21 | Chong Siou Wei | <i>Min-Nan Studies Research Unit</i> | YTL Corporation | 300,000.00 |
| 22 | Chou Wen Loong | <i>Sungai Buloh Leprosy Settlement History Document Preservation and Restoration (双溪毛糯麻风病院社区历史文献)</i> | Save Valley of Hope Solidarity Group | 8,000.00 |

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| | | 保存和修复计划) | | |
| 23 | Chua Kein Huat | Lightning Surge and Hazardous Area Protection Technology | KL Automation Engineering Sdn Bhd | 20,000.00 |
| 24 | Chua Kein Huat | Railway Power Supply and Distribution System | Colas Rail System Engineering Sdn Bhd. | 1,943,680.00 |
| 25 | Chuah Yea Dat | Value stream process mapping for CNC machining process | Greotech Integration (M) Sdn Bhd | 12,000.00 |
| 26 | Danny Ng Wee Kiat | XY stage error compensation for pick and place system | Greotech Integration (M) Sdn Bhd | 10,000.00 |
| 27 | Danny Ng Wee Kiat | Collaborative Robot | TF AMD Microelectronics (Penang) Sdn Bhd | 404,250.00 |
| 28 | Denis Wong Chee Keong | New Post-quantum Identity Based Encryption Scheme with Practical Implementation for Internet of Things Communication | MOHE FRGS | 63,200.00 |
| 29 | Eddy Cheah Seong Guan | Investigation of Upper Respiratory Carriage of Bacterial Pathogens and Their Circulating Genotypes and Antibiotic Susceptibility Profile in Kinta Valley, Malaysia | MOHE FRGS | 188,800.00 |
| 30 | Eng Yoke Kee | Artificial-Intelligence-Enabled Automation: Implications on Malaysia's Industrial Transformation, Growth, Jobs, and Wage | MOHE FRGS | 77,200.00 |
| 31 | Er Pek Hoon | Implications of Artificial Intelligence on the Education Sector | UNESCO | 9,925.70 |
| 32 | Ewe Hong Tat | Multi-scale Computational Electromagnetics for Phenomenology and Saliency | The Asian Office of Aerospace | 490,525.64 |

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| | | <i>Characterization in Remote Sensing</i> | <i>Research and Development (AOARD)</i> | |
| 33 | <i>Ewe Hong Tat</i> | <i>Computational Electromagnetics in Scattering Interactions of Earth Terrain for Remote Sensing Modeling</i> | <i>The Asian Office of Aerospace Research and Development (AOARD)</i> | 418,535.71 |
| 34 | <i>Ewe Hong Tat</i> | <i>Design and Development of Radar Technology for Detection of Ganoderma Disease in Oil Palm Plantations</i> | <i>Malaysia Palm Oil Board (MPOB)</i> | 132,900.00 |
| 35 | <i>Ewe Hong Tat</i> | <i>Study of Growth Variation and Yield Prediction of Oil Palm with Microwave Remote Sensing</i> | <i>Advanced Agroecological Research Sdn Bhd (AAR)</i> | 161,000.00 |
| 36 | <i>Ezra Morris Abraham Gnanamuthu</i> | <i>Internationalized Master Degree Education in Nanoelectronics in Asian Universities (NanoE1)</i> | <i>European Union</i> | 190,640.23 |
| 37 | <i>Ezra Morris Abraham Gnanamuthu</i> | <i>Severity estimation and localization of leaks for improved asset management using data analytic methods</i> | <i>MOHE TRGS</i> | 111,000.00 |
| 38 | <i>Faidz bin Abd Rahman</i> | <i>Simulation of Pulsing Effect in Fiber Laser Dynamic Behaviour caused by Scattering Losses generated by Acoustic Waves</i> | <i>Office of Naval Research Global</i> | 76,140.36 |
| 39 | <i>Faidz bin Abd Rahman</i> | <i>Highly Sensitive Optical Fiber Acoustic Sensor based on Laser Dynamics Behaviour for Near Real-Time monitoring of Water Pipelines</i> | <i>MOHE TRGS</i> | 167,000.00 |
| 40 | <i>Farah Waheeda Binti Jalaludin</i> | <i>The role of IT-Enabled Service Innovations in Bridging Digital Divide: The Service-Dominant Logic Perspective</i> | <i>MOHE FRGS</i> | 50,000.00 |
| 41 | <i>Fong Lai Yen</i> | <i>Investigation of the effects of</i> | <i>MOHE</i> | 177,200.00 |

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| | | <i>asiatic acid on pre-lesional atherogenic events in vitro and atherosclerotic lesion formation in vivo</i> | FRGS | |
| 42 | Gan Su Wan | <i>Positive Grandparenting and Ageing Program for Malaysian Grandparents</i> | <i>International Society for the Study of Behavioural Development (ISSBD)</i> | 6,159.33 |
| 43 | Goh Hock Guan | <i>Technology Transfer and Precision Agriculture for UK and Malaysia</i> | British Council-MOE | 19,400.00 |
| 44 | Goh Hock Guan | <i>Geographical Information System for Agriculture Planting Environment in Malaysia</i> | Best Environmental Technologies (M) Sdn Bhd | 2,400.00 |
| 45 | Goh Poh Jin | <i>Sense and Sustainability: Re-engineering the future role of Malaysia Museums and National Identity</i> | China Embassy | 7,300.00 |
| 46 | Guo Xinxin | <i>Reduce Heavy Metals Availability to Soil and Plant Growth by Natural Stabilization Materials</i> | MOHE FRGS | 119,200.00 |
| 47 | Har Wai Mun | <i>Chinese School Relocation in Klang Valley and Case Study of Baixiao Relocation</i> | 1Malaysia Community Alliance Foundation | 26,000.00 |
| 48 | Huang Yuk Feng | <i>Big Data Artificial Intelligence Models for Sustainable Water Resources Management</i> | MOHE FRGS | 75,696.00 |
| 49 | Huang Yuk Feng | <i>Integrated 3 Dimensional Geo-Database, Flood inundation Map and Damage Curve, and Building Information Modeling (BIM) Data Model, for Risk Assessment in Oasis Damansara Areas</i> | Brunsfeld Engineering Sdn Bhd | 5,300.00 |
| 50 | Ira Meilita binti Ibrahim | <i>A Malayan Nationalist: Tun Tan Cheng Lock and the Birth of a</i> | Donation from Tan | 450,000.00 |

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| | | <i>Nation</i> | <i>Siok Eng, Datin Paduka Tan Siok Choo and Tan Siok Lee</i> | |
| 51 | <i>Jireh Chan Yi-Le</i> | <i>A Computational Intelligence Approach to Mitigating Noise and Multicollinearity in Financial Probabilistic Forecasting</i> | <i>MOHE FRGS</i> | <i>76,218.00</i> |
| 52 | <i>Khoo Hooi Ling</i> | <i>Shared space design and modeling: Case studies in Asian cities</i> | <i>Eastern Asia Society for Transportation Studies (EASTS, EASTS-Japan)</i> | <i>39,461.70</i> |
| 53 | <i>Khoo Hooi Ling</i> | <i>A Novel Bus Travel Time Variability Modeling with Mixed Autoregressive Model</i> | <i>MOHE FRGS</i> | <i>55,000.00</i> |
| 54 | <i>Khor Boon Eng</i> | <i>The Study, Writing and Publication of Sinophone Malaysian Literary Studies: A Acritical Reader</i> | <i>PEJATI</i> | <i>36,000.00</i> |
| 55 | <i>Koo Chai Hoon</i> | <i>3D Building Information Modelling Through Automated Digitization and Integration of Soil Exploration Data</i> | <i>MOHE FRGS</i> | <i>47,500.00</i> |
| 56 | <i>Kuar Lok Sin</i> | <i>Malaysian hotels' green practices: Antecedents and the mediating role of owners'/managers' environmental commitment</i> | <i>MOHE FRGS</i> | <i>50,200.00</i> |
| 57 | <i>Kwan Ban Hoe</i> | <i>Development of IoT Platform for Aquaculture Monitoring</i> | <i>Asia Pacific Telecommunity (APT)</i> | <i>61,870.00</i> |
| 58 | <i>Kwan Ban Hoe</i> | <i>Sponsorship for Awards and Competitions</i> | <i>Greotech Integration (M) Sdn Bhd</i> | <i>10,000.00</i> |
| 59 | <i>Kwan Ban Hoe</i> | <i>Design a CAM drive pick and</i> | <i>Greotech</i> | <i>8,000.00</i> |

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| | | <i>place system for a 3-station automation line process</i> | <i>Integration (M) Sdn Bhd</i> | |
| 60 | <i>Lai Soon Onn</i> | <i>Development of Occupational Safety and Health Programme at Schools</i> | <i>Jayden OSH Resources Sdn Bhd</i> | <i>1,000.00</i> |
| 61 | <i>Lam Sau Kuen</i> | <i>Systematic elucidation of the molecular mechanisms of vasoreactivity mediated by spathulenol and nonacosane in rats</i> | <i>MOHE FRGS</i> | <i>187,800.00</i> |
| 62 | <i>Lam Sze Mun</i> | <i>Photocatalytic Fuel Cell for Sustainable Treatment of Greywater Effluents and Simultaneous Electricity Production</i> | <i>L'ORÉAL-UNESCO</i> | <i>30,000.00</i> |
| 63 | <i>Lam Weng Hoe</i> | <i>An Empirical Study on Supply Chain Risk Management in Malaysia with Analytic Hierarchy Process Approach</i> | <i>Newton R&D Centre Sdn. Bhd.</i> | <i>1,000.00</i> |
| 64 | <i>Lam Weng Siew</i> | <i>An Empirical Study on the Factors that Determine the Quality of Higher Education in Malaysia with Analytic Hierarchy Process Approach</i> | <i>Cardas Research & Consulting Sdn. Bhd.</i> | <i>1,000.00</i> |
| 65 | <i>Lau Lin Sea</i> | <i>Solar Photovoltaic as a Means to Sustainable Energy Consumption in Malaysia: The Role of Knowledge Transmission and Price Value</i> | <i>MOHE FRGS</i> | <i>54,000.00</i> |
| 66 | <i>Lee Chen Kang</i> | <i>An Empirical Investigation on the Effects of Blended Learning using Flipped Classroom Approach in Engineering Education</i> | <i>MOHE FRGS</i> | <i>60,580.00</i> |
| 67 | <i>Lee Foo Wei</i> | <i>Precast Rubberized Lightweight Concrete Panel as Thermal and Sound Insulating Construction Material</i> | <i>Malaysia Rubber Promotion Export Council (MREPC)</i> | <i>175,100.00</i> |
| 68 | <i>Lee How Chinh</i> | <i>A Maximum Likelihood</i> | <i>MOHE</i> | <i>60,700.00</i> |

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| | | <i>Estimator Control Chart based on Two-Parameter Exponential Life Time Models with Unknown Parameters</i> | FRGS | |
| 69 | Lee Hui Shan | <i>Insurance Efficiency, Productivity and Competitiveness: Measurements, Determinants and the Effects on Insurance Firms' Values</i> | MOHE FRGS | 58,000.00 |
| 70 | Lee Hwang Sheng | <i>Capturisation of Naturally Generated Electron in Water using Advanced Principle of Reversed Electric Motor MethodEvaluate Revision</i> | MOHE FRGS | 100,000.00 |
| 71 | Lee Ying Loong | <i>Intelligent and Energy-Efficient Network Slicing for Sustainable Virtualized Multi-Tenant 5G Systems</i> | MOHE FRGS | 72,200.00 |
| 72 | Lee Yoon Heng | <i>Actions and Reactions, Challenges and Opportunities of Malaysia Business Communities on Belt and Road Initiatives (BRI)</i> | China Embassy | 7,901.00 |
| 73 | Leong Kah Hon | <i>Low-Temperature Self Decomposing Processor in Kampung Bali</i> | Technojis Enterprise Sdn Bhd | 20,000.00 |
| 74 | Leong Pooi Pooi | <i>Derivation, Characterization and Gene Expression Study of Mococyte Lineages Derived from AML-M5-specific IPSC</i> | MOHE FRGS | 159,000.00 |
| 75 | Liau Ping Leng | <i>Contemporary Malaysian Chinese Children Literature and Publishing Culture</i> | Chiang Ching-Kuo Foundation | 65,520.00 |
| 76 | Lim Boon Han | <i>A Comprehensive Directional-Temporal-Spatial Solar Irradiance Distribution Model for Solar Energy System Performance Assessment in Tropics</i> | MOHE FRGS | 61,000.00 |
| 77 | Lim Boon Han | <i>Large Scale Solar Photovoltaic Power Plant Optimization for Tropical Region</i> | Integrated Logistics Berhad (ILB) | 89,570.00 |

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| 78 | Lim Boon Han | <i>Solar Irradiation Analysis using Satellite-Derived Database in the Tropics</i> | Malaysian Photovoltaic Industry Association | 7,000.00 |
| 79 | Lim Chee Men | <i>Project on Chinese Wooden Tablet Research in Malaysia (1)</i> | Pejabat Menteri Besar & SUK Perak | 6,455.75 |
| 80 | Lim Eng Hock | <i>Design and Development of Metal Environment UHF RFID Tag Antennas</i> | SAG Securitag Assembly Group Co. Ltd (Taiwan) | 46,366.00 |
| 81 | Lim Eng Hock | <i>Study of Miniature Folded Dipolar Patch with Embedded Artificial Magnetic Conductor for Metal Mountable Tag Design</i> | MOHE FRGS | 47,200.00 |
| 82 | Lim Seng Poh | <i>Enhanced Self Organising Map model for Surface Reconstruction of Unstructured Data</i> | MOHE FRGS | 71,500.00 |
| 83 | Lim Shiau Mooi | <i>Saving Climate or Jobs? The Impact of Renewable Transition on the Environment and Jobs in Malaysia.</i> | MOHE FRGS | 74,088.00 |
| 84 | Lim Yang Mooi | <i>Therapeutic Effects of Edible Birdnest Aqueous Extract on CRISPR-Cas9 Cell Model for Parkinson's Disease with LRRK2 Mutation (G238R Variant)</i> | Department of Veterinary Services (DVS)/UPM | 140,000.00 |
| 85 | Lim Yang Mooi | <i>Evaluation of Maslinic acid Treatment Efficacy in NOD Scid Gamma (NSG) mice with Colorectal Cancer Xenografts and Transcriptomics Profiling</i> | MOHE FRGS | 111,600.00 |
| 86 | Lim Yang Mooi | <i>Effectiveness and Safety Evaluation of Beauty Grade Device OneDoc Picopulse™ for the Treatment of Melasma Among Malaysian Women</i> | 1 DOC Holding Sdn Bhd | 42,000.00 |
| 87 | Lim Yang Mooi | <i>A Systematic Approach to Study the Traditional Chinese</i> | Hai-O Enterprise | 170,000.00 |

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| | | <i>Medicine as an Adjuvant Treatment in Breast Cancer Patients</i> | <i>Berhad</i> | |
| 88 | <i>Lim Yun Seng</i> | <i>Development of Cloud-Based Controlled Virtual Energy Storage for Maximum Demand Reductions on Power Grid with Penetration of Photovoltaic Systems</i> | <i>Newton-Ungku Omar Fund</i> | <i>407,060.50</i> |
| 89 | <i>Ling Lloyd</i> | <i>UTM 2020 Grant</i> | <i>Universiti Teknologi Malaysia (UTM)</i> | <i>4,019.00</i> |
| 90 | <i>Ling Lloyd</i> | <i>BRUNSFIELD Grant</i> | <i>Brunsfild Engineering Sdn Bhd</i> | <i>3,540.00</i> |
| 91 | <i>Ling Lloyd</i> | <i>Nerrativ Grant</i> | <i>Nerrativ Sdn Bhd</i> | <i>5,000.00</i> |
| 92 | <i>Loh Pek Chin</i> | <i>Molecular Characterization of Microbes from a Biofertilizer and its Improvement for the Control of Basal Stem Rot (BSR) Disease in Oil Palm</i> | <i>Ino Nature Sdn Bhd</i> | <i>266,560.00</i> |
| 93 | <i>M Sultana Alam</i> | <i>Perceptions to Women and Community about Early Marriage in Bangladesh</i> | <i>Bangladesh Social Development Academy (BSDA)</i> | <i>838.85</i> |
| 94 | <i>M Sultana Alam</i> | <i>Gender Disparity in Malaysian Higher Educational Institutions (HEIs).</i> | <i>MOHE FRGS</i> | <i>78,099.00</i> |
| 95 | <i>Mobashar Rehman</i> | <i>Determining the Precursors of Cyberbullying among the Students of Malaysian Institutes of Higher Learning</i> | <i>MOHE FRGS</i> | <i>58,000.00</i> |
| 96 | <i>Mohammed J. K. Bashir</i> | <i>Kinetic and mechanistic investigations of the degradation of recalcitrant organic compounds in Landfill Leachates under electropersulfate oxidation reaction</i> | <i>MOHE FRGS</i> | <i>125,000.00</i> |
| 97 | <i>Mok Siew Ying</i> | <i>A Zebrafish Model of the Schizophrenia-Drug Addiction</i> | <i>Toray Science</i> | <i>20,000.00</i> |

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| | | <i>Association</i> | <i>Foundation</i> | |
| 98 | <i>Nadya Supian</i> | <i>Game of Words: Integration of game-based learning in developing metacognition for ESP vocabulary acquisition Evaluate Revision</i> | <i>MOHE FRGS</i> | <i>50,000.00</i> |
| 99 | <i>Ng Choon Aun</i> | <i>Improve the Performance of Membrane Bioreactor in Palm Oil Mill Effluent (POME) Treatment and Paddy Soil Rehabilitation using Microbe Activator</i> | <i>Best Environmental Technologies (M) Sdn Bhd</i> | <i>30,000.00</i> |
| 100 | <i>Ng Hien Fuh</i> | <i>Elucidation of Linezolid-resistance Determinants in Mycobacterium abscessus</i> | <i>Toray Science Foundation</i> | <i>20,000.00</i> |
| 101 | <i>Ngeow Yeok Meng</i> | <i>Tun Tan Siew Sin: Principles and Contributions towards Nation Building and the Malaysian Economy</i> | <i>Donation from Tan Siok Eng, Datin Paduka Tan Siok Choo and Tan Siok Lee</i> | <i>450,000.00</i> |
| 102 | <i>Ngeow Yun Fong</i> | <i>Mechanisms of Antibiotic Resistance among Bacterial Pathogens</i> | <i>Self Funded</i> | <i>80,000.00</i> |
| 103 | <i>Olanrewaju Abdullateef Ashola</i> | <i>Establishment of Critical Success Factors in Hospital Building Maintenance Management Practice</i> | <i>MOHE FRGS</i> | <i>50,000.00</i> |
| 104 | <i>Ong Kok Seng</i> | <i>Passive Cooling for Solar PV</i> | <i>Public-Private Research Network (PPRN) - MOE & Solarvest Energy Sdn Bhd</i> | <i>24,000.00</i> |
| 105 | <i>Ong Mei Kying</i> | <i>Development of the teaching/research facilities at the Biodiversity Park</i> | <i>Kuala Lumpur Kepong Berhad</i> | <i>440,000.00</i> |
| 106 | <i>Ooi Bee Chen</i> | <i>A Study on Medical Industry</i> | <i>Dr Chen's</i> | <i>1,000.00</i> |

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| | | | Dental Clinic | |
| 107 | Pang Yean Ling | Assessing surface chemistry and formation mechanism of biomass waste derived nanostructured cellulose hybrid as high activity sonocatalyst | MOHE FRGS | 85,400.00 |
| 108 | Pheh Kai Sheun | Mental Health Literacy Training for Teachers and School Counsellors in Sarawak Programme (PUMP 3.0) | Pintar Foundation | 60,000.00 |
| 109 | Pok Wei Fong | Malaysian Timber Council's E-commerce Adoption Readiness and Need Identification | SERC Sdn Bhd | 40,000.00 |
| 110 | Rehan Akbar | Customizable Solutions for Data Analytics and Interactive Operations Management of Day Care Centres | Vast Technology Solutions (LLC) | 500.00 |
| 111 | Santhidran A/L Sinnappan | Model Building: E-Cigarette availability as a moderating factor on smoking habits | MOHE FRGS | 97,128.00 |
| 112 | Saw Seow Hoon | Quantitative risk assessment and reduction of contamination from Salmonella spp., Escherichia coli O157:H7, Listeria monocytogenes and Campylobacter jejuni in ready-to-eat fresh vegetables | MOHE FRGS | 147,800.00 |
| 113 | Seow Ai Na | The Role of Facilitating Conditions for e-Health Technology Usage and Satisfaction on Healthcare Services: A Study on Medical Tourism Destination Loyalty in Malaysia | MOHE FRGS | 81,400.00 |
| 114 | Siah Poh Chua | A need assessment among refugee teachers: Their job demands, job resources and quality of life | Low Poi Kee Fund | 5,020.12 |
| 115 | Siah Poh Chua | The social impacts of cyber bullying on psychosocial health: The mediating effects of primary appraisal and coping strategies in general aggression model | MOHE FRGS | 72,100.00 |

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| 116 | Sim Hong Seng | <i>A Hybrid Proximal Method with Spectral Gradient Tehcniques in Solving Sparsity Optimization</i> | MOHE FRGS | 55,200.00 |
| 117 | Sim Lan Ching | <i>Disinfection Mechanism, Mechanistic Models and Charge Transfer Behavior of Vanadate Quantum Dots/Graphitic Carbon Nitride Nanosheets for Photocatalytic Disinfection</i> | MOHE FRGS | 109,030.00 |
| 118 | Sin Jin Chung | <i>Elucidating Z-scheme charge transfer dynamics in spinel ferrites-based heterojunction nanocomposites for enhanced solar photocatalytic pollutants decomposition and water splitting</i> | MOHE FRGS | 110,500.00 |
| 119 | Sit Nam Weng | <i>Evaluation of Extracts from Natural Resources for Antioxidant and Antidiabetic Activities</i> | EN-Nature Sdn Bhd | 419.81 |
| 120 | Sonia Khodabakhsh | <i>Wellbeing Training to Refugees in Malaysia: How to Affect Life Satisfaction and Depression Level</i> | Low Poi Kee Fund | 5,048.00 |
| 121 | Stella Morris | <i>Feasibility study of grid-scale gravity energy storage for increased penetration of sustainable energy and enhanced power quality in Malaysian hybrid power systems</i> | MOHE FRGS | 74,200.00 |
| 122 | Steven Lim | <i>Fundamental investigation of heterogeneous acid catalyst derived from oil palm empty fruit bunch for inter-esterification reaction with methyl acetate as acyl acceptor</i> | MOHE FRGS | 101,700.00 |
| 123 | Sumathi a/p Sethupathi | <i>The Role of Functionalized Waste Biomasses and Microphytes in Soluble Nutrient Recovery and Reutilisation</i> | MOHE LRGS | 702,655.00 |
| 124 | Tai Lit Cheng | <i>Organic Agriculture and Marketing Initiatives for Zenxin Organic Food Company: A Case Study</i> | Zenxin Agri-Organic Food Sdn | 2,650.00 |

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| | | | <i>Bhd</i> | |
| 125 | <i>Tan Ai Boay</i> | <i>First Generation Buddhists in British Malaya: A Transnational History</i> | <i>Chiang Ching-Kuo Foundation for International Scholarly Exchange</i> | 38,897.50 |
| 126 | <i>Tan Ai Boay</i> | <i>Historical Records and Legends of the Cave Temples in Ipoh, Perak, Malaysia</i> | <i>Pejabat Menteri Besar & SUK Perak</i> | 100,000.00 |
| 127 | <i>Tan Ai Boay</i> | <i>The Studies of parit Buntar and Datoh Gong Belief</i> | <i>Siang Heng Plastic Ware Sdn Bhd</i> | 80,000.00 |
| 128 | <i>Tan Ai Boay</i> | <i>The Study of Chinese Folk Religion in Malaysia</i> | <i>Siang Heng Plastic Ware Sdn Bhd</i> | 48,000.00 |
| 129 | <i>Tan Ai Boay</i> | <i>The Compiling of Ancestral Tablets in Kar Yin Fui Kon, Penang</i> | <i>Kar Yin Fui Kon, Penang</i> | 9,000.00 |
| 130 | <i>Tan Beng Piou</i> | <i>Epitaphs and Inscriptions in the Kwong Tong Chinese Cemetery, Kuala Lumpur</i> | <i>The Association of Kwong Tong Cemetery Management Kuala Lumpur</i> | 20,020.00 |
| 131 | <i>Tan Hung Khoon</i> | <i>Multi-Sample Deep Learning for Violent Scene Detection</i> | <i>MOHE FRGS</i> | 122,100.00 |
| 132 | <i>Tan Hung Khoon</i> | <i>Event Detection for Smart Conference Room</i> | <i>Jabil Sdn Bhd</i> | 3,570.00 |
| 133 | <i>Tan Kok Weng</i> | <i>Reliability Assessment of Regional Climate Model (RCM) based on Representative Concentration Pathway (RCP) for Peninsular Malaysia</i> | <i>MOHE FRGS</i> | 73,200.00 |
| 134 | <i>Tan Soon Aun</i> | <i>Developing a model of cyber-pornography uses and its effect</i> | <i>MOHE FRGS</i> | 86,200.00 |

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|-----------|-------------------------------|--|---|-----------------------------|
| | | <i>on psychosexual functioning among emerging adults in Malaysia</i> | | |
| 135 | Tan Yin Qing | <i>Association between Dopaminergic Pathways Genes and Cognitive Performance : A Case - control Study</i> | Toray Science Foundation | 20,000.00 |
| 136 | Tang Pek Yee | <i>A potential link between opioid addiction (use or abuse) and schizophrenia-like behaviour</i> | MOHE FRGS | 162,800.00 |
| 137 | Te Kian Kong | <i>Clinical Observation of a Combined Acupuncture Points with Deep Puncture at the Acupoint JingMing for Glaucoma Treatment</i> | Dr Te Kian Kong (Self funded) | 240.00 |
| 138 | Te Kian Kong | <i>Clinical Observation of a Combined Acupuncture Points with Deep Puncture at the Acupoint JingMing for Glaucoma Treatment</i> | PHP Group Sdn Bhd | 3,000.00 |
| 139 | Te Kian Kong | <i>Clinical Observation of a Combined Acupuncture Points with Deep Puncture at the Acupoint JingMing for Glaucoma Treatment</i> | Yiai Solutions | 3,000.00 |
| 140 | Te Kian Kong | <i>Clinical Observation of a Combined Acupuncture Points with Deep Puncture at the Acupoint JingMing for Glaucoma Treatment</i> | Malaysian Chinese Medical Association | 300.00 |
| 141 | Tee Boon Chuan | <i>Research Project on Islam, Confucianism and the Moderate Path of Civilisation</i> | Fo Guang Shan (M) | 24,700.00 |
| 142 | Tee Peck Ling | <i>Corporate Involvement In Creating Employees - Awareness And Readiness Towards Retirement Planning</i> | Private Pension Administrat or Malaysia (PPA) | 19,000.00 |
| 143 | Tee Yee Kai | <i>Novel Chemical Exchange Saturation Transfer Magnetic Resonance Imaging (CEST MRI) for Brain Cancer Diagnosis and Treatment Monitoring</i> | Majlis Kanser Negara (MAKNA) | 30,000.00 |
| 144 | Teh Peh Chiong | <i>An Enhanced TFL Fiber Laser</i> | Public- | 91,870.00 |

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|-----------|--------------------------------|---|---|-----------------------------|
| | | <i>System incorporating a SMART Vision System</i> | <i>Private Research Network (PPRN) - MOE & TFL Technology Sdn Bhd</i> | |
| 145 | <i>Teoh Shen Khang</i> | <i>A Viewpoint Invariant Crowd Counting Algorithm using Local Features and Regression Techniques</i> | <i>MOHE FRGS</i> | <i>25,550.00</i> |
| 146 | <i>Tham Mau Luen</i> | <i>Context-Aware Disaster Mitigation using Mobile Edge Computing and Wireless Mesh Network</i> | <i>ICT Virtual Organization of ASEAN Institutes and NICT (ASEAN IVO)</i> | <i>113,321.44</i> |
| 147 | <i>Toh Pek Lan</i> | <i>Computational nanostructure design for hydrogen storage: A new solution to the renewable energy intermittency problem</i> | <i>MOHE FRGS</i> | <i>119,000.00</i> |
| 148 | <i>Toh Teong Chuan</i> | <i>Research on History and Culture of Kinta Valley, Perak (Projek Pengkajian Tempatan Kawasan Sekitar Lembah Kinta)</i> | <i>Pejabat Menteri Besar & SUK Perak</i> | <i>100,000.00</i> |
| 149 | <i>Toh Tien Choon</i> | <i>Challenges Facing Quantity Surveyors in Assuming the Role of Building Information Modelling Manager</i> | <i>JQS International Sdn Bhd</i> | <i>2,000.00</i> |
| 150 | <i>Vignes a/l Ponniah</i> | <i>An Analysis on Energy Performance of Existing Green Constructed Building Design Certified by GreenRe and Other Green Rating Certification System in Malaysia</i> | <i>GreenRE Sdn Bhd</i> | <i>10,000.00</i> |
| 151 | <i>Vimalan a/l Renganathan</i> | <i>Elucidation of candidate circular RNAs as predictive molecular markers of chemoresistance in colorectal cancer and colorectal cancer stem cells</i> | <i>Majlis Kanser Negara (MAKNA)</i> | <i>30,000.00</i> |
| 152 | <i>Wong Chee Siang</i> | <i>Exploration of a new class of</i> | <i>MOHE</i> | <i>57,700.00</i> |

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| | | <i>vehicle routing algorithms for a large set of vertices with delivery deadline.</i> | <i>FRGS</i> | |
| 153 | <i>Wong Hann Ling</i> | <i>Construction of miniaturized broad host range helper plasmids for improving the efficiency of Agrobacterium-mediated plant transformation</i> | <i>MOHE FRGS</i> | <i>102,200.00</i> |
| 154 | <i>Wong Hann Ling</i> | <i>Identification and Characterization of Beneficial Microbes from a Foliar Fertilizer for the Enhancement of Crop Productivity</i> | <i>Ino Nature Sdn Bhd</i> | <i>140,000.00</i> |
| 155 | <i>Wong Jianhui</i> | <i>Research on the Efficacy of Integrated Fuel Cell and FACT Devices in Improving Power Quality on Distribution Networks with Photovoltaic Systems Evaluate Revision</i> | <i>MOHE FRGS</i> | <i>77,200.00</i> |
| 156 | <i>Wong Wey Lim</i> | <i>Banana Cultivation</i> | <i>WK Lee Best Enterprise</i> | <i>18,000.00</i> |
| 157 | <i>Wong Wey Lim</i> | <i>Workshop & Research Project</i> | <i>Kuala Lumpur Kepong Berhad</i> | <i>66,000.00</i> |
| 158 | <i>Wong Wun Bin</i> | <i>The Immigration History of Ka Yin People: A Case Study of Moy Kung Hui (1903-2017)</i> | <i>Federation of Ka Yin Chu Associations of Malaysia</i> | <i>60,000.00</i> |
| 159 | <i>Wong Wun Bin</i> | <i>Project on Perak Chinese Mining Association</i> | <i>Perak Chinese Mining Association</i> | <i>173,000.00</i> |
| 160 | <i>Wong Wun Bin</i> | <i>The Study of Master Hsing Yun and His Influence on Humanistic Buddhism in Malaysia (1963-2017)</i> | <i>Fo Guang Shan Education Centre</i> | <i>65,400.00</i> |
| 161 | <i>Yamuna a/p Munusamy</i> | <i>Metal Foam and Coating Formulation</i> | <i>UP Packing Sdn Bhd</i> | <i>25,500.00</i> |

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| 162 | Yamuna a/p Munusamy | Reclaim Rubber Technology for Dipped Latex Product | Public-Private Research Network (PPRN) - MOE & Bridge Field Resources Sdn Bhd | 79,854.00 |
| 163 | Yap Siew Chin | Project on Go Research in perak | Pejabat Menteri Besar & SUK Perak | 6,860.00 |
| 164 | Yap Sook Fan | Health Issues within the Poor and Marginalised Community | Self Funded | 335,000.00 |
| 165 | Yap Vooi Voon | Research on Electronic Systems | Self Funded | 21,000.00 |
| 166 | Yap Wun She | Develop a novel machine learning sound extraction algorithm to convert negligible object vibrations in the video to sound for visual surveillance system | MOHE FRGS | 69,200.00 |
| 167 | Yap Wun She | Design and Development of Machine Learning Based Travel App | Conpero Sdn Bhd | 50,000.00 |
| 168 | Yap Yeow Hong | Nickel-based Hybrid Catalyst as Dual Function Materials for Sequential Carbon Capture and Methanation | MOHE FRGS | 58,800.00 |
| 169 | Yeo Wei Hong | Die Defects and Quality of Aluminium Billet Material in Aluminium Extrusion Process | PMB (Klang) Sdn Bhd | 3,744.90 |
| 170 | Yeoh Keat Hoe | The search for high Tc tin based alloy superconductor Evaluate Revision | MOHE FRGS | 61,460.00 |
| 171 | Yip Chee Yin | The COVID-19 outbreak and implications to public transport industry | MOHE Geran Penyelidikan Pasca COVID-19 | 20,000.00 |
| 172 | Zafarullah Nizamani | Investigation of metocean interaction behaviour model with offshore structures near the | MOHE FRGS | 52,800.00 |

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| | | <i>free surface.</i> | | |
| 173 | Zam Zuriyati Bt Mohamad | <i>Sustainable Development Goals and Community Happiness through Affordable Eco-Friendly Smart House</i> | MOHE FRGS | 74,222.00 |