



In this issue:

Featured Interview
with Professor Ts. Dr
Mohd Nazip Suratman
Thriving in Research
during Pandemic

Page 08

Featured Articles
Hope is on Its Way:
COVID-19 Vaccination
in Malaysia

Working from Home in
the New Norms

Page 11

FSG Led PPE Mission
for Sabah Frontliners

Page 34

FSG Won Multiple
Awards

Page 62

UNSTOPPABLE: FSG WON GLOBAL PROMINENCE AWARD 2020 & THE AWARDS UiTM 2021



GRANTS RECIPIENTS



Congratulations to the Coordination Chemistry Group (CCG) from Faculty of Applied Sciences UiTM for securing a PhosAgro/UNESCO/IUPAC Research Grant in Green Chemistry for Young Scientists with a project entitled "Green and Economical Synthesis of Pd- and Ni-based Catalysts by Atmospheric Atomic Layer Deposition" in the amount of RM124680.



GRANTS RECIPIENTS



Tahniah

DR. ZAKIAH MOHAMED

PENERIMA GERAN PENYELIDIKAN GLOBAL RESEARCH REPUTATION (GRR)

TITLE:
A MECHANISM OF MAGNETIC PHASE TRANSITIONS BETWEEN ANTIFERROMAGNETIC AND PARAMAGNETIC STATES INDUCED BY ZINC-DOPED AT TRANSITION-METAL SITES LITHIUM PHOSPHATE BATTERIES.

IN COLLABORATION WITH UNIVERSITY OF SYDNEY

UTM *ut nasaku*

<https://fsg.utm.edu.my>

[fsg.utm](#)

[Fakulti Sains Gunung UTM Shah Alam](#)

[FSG_UTM](#)

[Faculty of Applied Sciences \(FAS\)](#)



Tahniah

21 PENERIMA GERAN PENYELIDIKAN MyRA 2020

JUMLAH KESELURUHAN: RM 420,000

21 recipients are shown in circular portraits arranged in two rows: 11 in the top row and 10 in the bottom row.

UTM *ut nasaku*

<https://fsg.utm.edu.my>

[fsg.utm](#)

[Fakulti Sains Gunung UTM Shah Alam](#)

[FSG_UTM](#)

[Faculty of Applied Sciences \(FAS\)](#)

GRANTS RECIPIENTS

Tahniah

2 PENERIMA GERAN PENYELIDIKAN STRATEGIC RESEARCH PARTNERSHIP (SRP)



DR. FAEZAH BT BUYONG

TITLE:
ENHANCEMENT OF METHANE PRODUCTION FROM ANAEROBIC CODigestION OF MWK SLUDGE AND FOOD WASTE

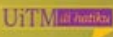
INDAH WATER KONSORTIUM SDN. BHD



DR. KHAIRUL ADZFA BIN RADZUN

TITLE:
OPTIMIZATION, DEVELOPMENT AND USER ACCEPTANCE TEST OF WAY-GY CHLORELLA-HONEYMELT SYSTEM BOOSTER COOKIES

NORAINI COOKIES WORLDWIDE SDN BHD


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

Tahniah

39 PENERIMA GERAN PENYELIDIKAN KHAS 2020

JUMLAH KESELURUHAN: RM 780,000


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

PENERIMA GERAN PENYELIDIKAN KHAS 2020

DR. MOHD HUSAIRI BIN FADZILAH SUHAIMI
THE ENHANCEMENT OF SURFACE CONDUCTING NOVEL CRYSTALLINE ZINC OXIDE NANOSTRUCTURES DOPED WITH NIOBIUM ON Si NANOPOROUS

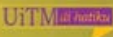
DR. FATIMAH BINTI SALIM
MOLECULAR DOCKING SIMULATIONS OF GLUTAMATE-LIKE COMPONENTS FROM PYCNARRHENA CALIFLORA ON UMAMI TASSIRI-1 AND TASSIRI-3-G-PROTEIN COUPLED RECEPTORS

DR. FARIZAN BINTI ARIS
CYTOTOXICITY EFFECTS OF GREEN SYNTHESIZED IRON OXIDE NANOPARTICLES ON BREAST CANCER CELL LINES

DR. MOHAMMAD ZAREI
OPTIMIZATION, CHARACTERIZATION AND IDENTIFICATION OF ANTIOXIDATIVE PEPTIDES GENERATED FROM MUNG BEAN SPROUT PROTEINS

ASSOC. PROF. DR. AISAH BT BUJANG
EFFECT OF MACRONUTRIENTS COMPOSITION ON GLYCAEMIC INDEX OF A FOOD MODEL SYSTEM

PUAN ERNE EILEEN BINTI RIZLAN ROSS
VALORIZING LOCAL AGRICULTURAL WASTE INTO HIGH-VALUE BIOPOLYMER BY CELLULOSE PRODUCING PHA ACCUMULATING BACTERIA


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

PENERIMA GERAN PENYELIDIKAN KHAS 2020

PUAN ROSLINDA BINTI FAUZI
SYNTHESIS OF NOVEL AL₂O₃/PAA-DES NANOFILM TO ENHANCE THERMAL CONDUCTIVITY AND SPECIFIC HEAT CAPACITY IN THERMAL ENERGY STORAGE

DR. SITI KHAIRIYAH BINTI MOHD HATTA
THE BIOVERSITY VALUE OF A TRUE EPiphyte Ficus deltoidea IN MALAYSIAN OIL PALM AGROECOSYSTEMS

DR. SITI NURBAYA BINTI SUPARDAN
PHOTOCATALYTIC ACTIVITY OF CR-DOPED TiO₂/PVA NANOPARTICLES SOL-GEL AND ELECTROSPINNING TECHNIQUES

PUAN NURZULFA SHAHEERA ERNE
BINTI MOHD YASM
ESTABLISHING LOCALISED CONSTANT (K) OF METHANE GENERATION RATE

DR. MOHD AZRI BIN AB RANI
STRUCTURAL PROPERTIES OF IONIC LIQUID POLYMER ELECTROLYTES

DR. SITI NUR LIYANA BINTI MAMALUD
SYNERGETIC EFFECT OF HYBRID FILLER USING PALM KERNEL SHELL BIOFILLER IN CARBON BLACK-CARBONYLATED NITRILE BUTADIENE RUBBER/STYRENE RECLAIMED RUBBER BLEND

DR. RASEETHA VANI A/P SIVA MANKAM
HEAT TREATED MALAYSIAN MUSHROOMS: RELATIONSHIP BETWEEN BIOACTIVE FACTORS, HEALTH PROMOTING EFFECTS AND CONSUMER PERCEPTION

DR. AMALINA BINTI MOHD TALJODIN
SYNTHESIS AND CHARACTERIZATION OF HYDRAZONE METAL COMPLEXES AS ANTIMICROBIAL EFFLUX PUMP INHIBITORS

DR. REENA BINTI ASO RASHID
CLASSIFICATION AND DIFFERENTIATION OF PRINTED LASER TONERS USING COMBINATION TECHNIQUES OF SPECTROSCOPIC AND CHEMOMETRIC


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

PENERIMA GERAN PENYELIDIKAN KHAS 2020

ASSOC. PROF. MUHD FAUZI BIN SARAN
METHOD DEVELOPMENT AND VALIDATION OF MULTIRESOLVES MYCOTOXINS IN COCOA AND COCOA PRODUCTS BY HIGH RESOLUTION MASS SPECTROMETRY

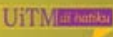
PROF. DR. HADARAH BINTI BAHRON
SYNTHESIS, CHARACTERIZATION AND REACTIVITY OF TRANSITION METAL COMPOUNDS (TMCs) AS ADDUCTS FOR ELECTROCHEMICAL CATALYST OF HYDROGEN EVOLUTION REACTION (HER)

ASSOC. PROF. SABHAHANIM BINTI SALEH
EFFECTS OF CROSSLINKER ON THE SWELLING BEHAVIOR AND MECHANICAL PROPERTIES OF HEMICELLULOSE SEMI-INTERPENETRATING POLYMER NETWORK (IPN) NANOCOMPOSITE HYDROGEL FILM

ASSOC. PROF. SHARIFAH AMINAH BT SYED MOHAMAD
GASTROINTESTINAL ADHESION AND INVASION OF FOODBORNE SALMONELLA ENTERICA

ASSOC. PROF. DR. NOOR HANA BT HUSAIN
BACTERIOPHAGE COCKTAILS AND ENDOLYSINS AS CONTROL STRATEGIES FOR BACTERIAL PANICLE BLIGHT OF RICE IN MALAYSIA

ASSOC. PROF. SHAHRIFF BIN CHE IBRAHIM
THE ENHANCEMENT OF POLYHYDROXYBUTYRATE (PHB BIOPOLYESTER) SYNTHESIS BY CHLORELLA SP. VIA NUTRIENT MODULATION


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

PENERIMA GERAN PENYELIDIKAN KHAS 2020

EN EZIZAN BINTI ELIAS
MULTIVARIATE CHEMOMETRIC DISCRIMINATION OF BALLPOINT AND GEL PEN INKS BASED ON COLORIMETRY AND SPECTROSCOPIC TECHNIQUES

DR. NAZIRAZAWATI BINTI AHMAD TALJODIN
COMPARISON STUDY OF MINCOOR TERNARY LAYERED DOUBLE HYDROXIDE WITH MINCO LAYERED DOUBLE HYDROXIDE ON SUPERCAPACITOR EFFICIENCY

DR. ZITTY SARAH BINTI ISMAIL
ENHANCE PRIMARY STUDENTS' PERFORMANCE BY INVESTIGATING THE IMPACT OF SURROUNDING CLASSROOM NOISE WITH BLOOD PRESSURE LEVEL AND STUDENT ACHIEVEMENT

DR. NUR NADIAH BINTI MD. YUSOF
BEHAVIOUR AND METAGENOMIC APPROACHES IN ASSESSING THE WELL-BEING OF MALAYSIAN TIGERS (PANTHERA TIGRIS JACKSONI) IN CAPTIVITY

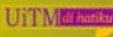
DR. HAMZAH BINTI MD BASID
SYNTHESIS AND ADSORPTION STUDIES OF MICRO-MESOPOROUS SILICA MATERIALS FROM SOLID WASTE BOTTOM ASH

DR. ANNE MARIA BINTI MAHAT
COMPARATIVE STUDY ON DIFFERENT OXIDIZING AGENTS OF SELF-PROPAGATING COMBUSTION (SPC) SYNTHESIZED AL₂-XHF₂O₃ MATERIALS

ASSOC. PROF. TA. DR. NOOR NAEMI BINTI BONNA
EFFECT OF DIFFERENT PRECURSOR OF HUMMERS METHOD IN SYNTHESIS GRAPHENE OXIDE USING REGENERATE CARBON BLACK FROM WASTE TYRE

DR. SHARE. FADU BIN MOHAMAD ZAMRI
EFFECTS OF HYDROTHERMAL MODIFIED COAL BOTTOM ASH AS FILLER IN POLYMER COMPOSITE

EN MOHAMED IZZHARIF BIN ABDUL HALIM
APPLICATION OF CHEMOMETRIC TECHNIQUES ON SPECTROSCOPIC DATA FOR THE IDENTIFICATION AND PATTERN DISTRIBUTION OF GUNSHOT RESIDUE (GSR)


<https://fsg.utm.edu.my>
 Faculty of Applied Sciences, UiTM Shah Alam
  fsg_utm
  FSG_UTM
  Faculty of Applied Sciences (FSG)

GRANTS RECIPIENTS



Congratulations to Ts. Dr Ismaniza Ismail for securing "Geran Dana Penjana KPT-CAP" with the team from Faculty of Electrical Engineering, UiTM Shah Alam with the amount of RM2132325.



اَوْنُوْرْسِيُوْا تِيْكُوْلُوْا كِيْ اَمَارَا
UNIVERSITI
TEKNOLOGI
MARA

Published by FSG Corporate Communications Unit

©2021. FSG Corporate Communications Unit, Faculty of Applied Sciences,
Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, MALAYSIA