

2023 Completions - Faculty of Engineering

Dr. Fan Du

(Specialisation: Chemical engineering) (Conferred: 17-Jan-2023)
Internal Flows in an Evaporating Colloidal Drop

Dr. Umma Habiba

(Specialisation: Chemical engineering) (Conferred: 17-Jan-2023)
Lithium-ion-conducting membrane for selective lithium extraction

Dr. Hui Jean Lim

(Specialisation: Chemical engineering) (Conferred: 17-Jan-2023)
Development of Quartz Crystal Microbalance-Based Biosensors for Detection of Infectious Diseases

Dr. Hetti Arachchige Ravi Tharaka Wijesekara

(Specialisation: Electronic & computing) (Conferred: 17-Jan-2023)
Quantum thermo-optical devices

Dr. Feifei Zhang

(Specialisation: Chemical engineering) (Conferred: 17-Jan-2023)
Development of carbon-supported metal alloy nanoparticles and single atom electrocatalysts for cathodic hydrogen and oxygen reduction reactions

Dr. Jiangqi Zhu

(Specialisation: Materials engineering) (Conferred: 17-Jan-2023)
Comparative study of Al-Mg-Ti(-Sc-Zr) alloys fabricated by cold metal transfer and electron beam additive manufacturing

Dr. Arshia Fathima

(Specialisation: Chemical engineering) (Conferred: 01-Feb-2023)
Spontaneous Copper Electrowinning in Microbial Electrochemical Systems using Enriched Halophilic Electroactive Bacterial Consortia

Dr. Songbo Hu

(Specialisation: Civil engineering) (Conferred: 01-Feb-2023)
Identification and Prevention of Crane Operational Hazards by Integrating BIM and Pathfinding Algorithm in Construction Planning

Dr. Premlatha Jagadeesan

(Specialisation: Biomedical engineering) (Conferred: 01-Feb-2023)
Development of an engineered skin substitute for the treatment of burn injuries

Dr. Prasanth Karaiyan

(Specialisation: Chemical engineering) (Conferred: 01-Feb-2023)
In silico screening, biochemical characterization, and structural analysis of recombinant dimethylsulfide monooxygenases catalysing nicotinamide adenine dinucleotide:flavin mononucleotide oxidoreduction

Dr. Guanyu Lai

(Specialisation: Materials engineering) (Conferred: 01-Feb-2023)
Extrusion-based bioprinting of human vascular-like constructs: exploration and development

Dr. Huikai Li

(Specialisation: Materials engineering) (Conferred: 01-Feb-2023)
Creating Multiphase Steels Using Laser Powder Bed Fusion of Mixed Powders

Dr. Yu Qi

(Specialisation: Chemical engineering) (Conferred: 01-Feb-2023)
Deactivation of Zeolitic Catalyst by the Poisoning of Ni Speciation and Its Control

Dr. Surakshya Shrestha

(Specialisation: Biomedical engineering) (Conferred: 01-Feb-2023)
A miRNA-based strategy to improve osteogenesis in hydrogels for bone tissue engineering

Ziaul Haque Shuvro

(Specialisation: Mechanical engineering) (Conferred: 01-Feb-2023)
Modeling the Mixing and Heat Transfer of Nanofluids in Laminar Flow

Dr. Haoyu Song

(Specialisation: Materials engineering) (Conferred: 01-Feb-2023)
Microstructural Optimization and Elevated Temperature Creep Enhancement of Nickel-based Superalloy IN738LC by Selective Laser Melting

Dr. Yuan Yue

(Specialisation: Materials engineering) (Conferred: 01-Feb-2023)
Molecular Dynamics Simulation of Twin Dislocation Interactions in Magnesium

Dr. Mohamed Mabrouk Abdelfattah Ammar

(Specialisation: Mechatronics engineering) (Conferred: 15-Feb-2023)
Robotic Fibre Placement of Thermoset Composites (Automated Manufacturing and Composites Characterisation)

Dr. Seyed Amin Assadzadeh Birjandi

(Specialisation: Civil engineering) (Conferred: 15-Feb-2023)
Computer Vision Construction for Operation Safety Level Monitoring

Dr. Balinee Balachandran

(Specialisation: Civil engineering) (Conferred: 15-Feb-2023)
Development of a novel Green Cement (GC) from waste: Application towards Construction Industry

Dr. Jing Shuet Chan

(Specialisation: Mechanical engineering) (Conferred: 15-Feb-2023)
Enhancement in Wastewater Treatment Processes via High Frequency Acoustic Waves

Dr. Jun Yi Lim

(Specialisation: Electrical engineering) (Conferred: 15-Feb-2023)
Real-time Aggressive Action Recognition using Deep Learning in a Multifarious Setting

Dr. Eric Shen Lin

(Specialisation: Mechanical engineering) (Conferred: 15-Feb-2023)
Liquid marbles: Study of their mechanics and applications

Dr. Udeshini Ishani Manatunga

(Specialisation: Civil engineering) (Conferred: 15-Feb-2023)
Preconditioning of mineral bearing rock formations for permeability enhanced in-situ leaching application

Joshia Christa Pradana

(Specialisation: Chemical engineering) (Conferred: 15-Feb-2023)

Evaluating The Feasibility Of 3D-printed Gyroid Packing In Improving The Anaerobic Digestion Of Palm Oil Mill Effluent (POME)

Dr. Jose Gabriel Arganaras

(Specialisation: Electronic engineering) (Conferred: 02-Mar-2023)

Radar-based Smart Shoes for Fall Prevention

Dr. Georgia Alice Whitney Hunter

(Specialisation: Materials engineering) (Conferred: 02-Mar-2023)

Modelling and Design of Additive Manufactured Brick-and-Mortar Structures

Dr. Tony Huynh

(Specialisation: Materials engineering) (Conferred: 02-Mar-2023)

Synthetic Porous Polymers and Naturally Derived Materials for the Tissue Engineering of a Scapholunate Bone-Ligament-Bone Construct

Dr. Arden Hui Ming Phua

(Specialisation: Manufacturing eng & tech general) (Conferred: 02-Mar-2023)

A Digital Twin for Powder Spreading in Metal Additive Manufacturing

Dr. Dayan Bandara Rathnayake

(Specialisation: Electrical engineering) (Conferred: 02-Mar-2023)

Control Design of Inverter-based Resources in Power Systems

Dr. Erfan Rezaei

(Specialisation: Chemical engineering) (Conferred: 02-Mar-2023)

Phase Equilibria of Carbon Dioxide Capture from Binary Gas Mixtures (Flue and Biogas) using Semi-Clathrate Hydrates

Dr. Suthakaran Sivagnanasuntharam

(Specialisation: Geotechnical engineering) (Conferred: 02-Mar-2023)

Advancement of current intelligent compaction technology for asphalt pavement layers

Dr. Shibani Veeraragavan

(Specialisation: Biomedical engineering) (Conferred: 02-Mar-2023)

Elastohydrodynamic Origins of Flagellar Beat Transitions in Sperm

Yik Kang Ang

(Specialisation:) (Conferred: 15-Mar-2023)

Rainfall-Runoff Modeling Using a Self-reforming Neuro-Fuzzy System

Dr. Soon Hong Chew

(Specialisation: Mechanical engineering) (Conferred: 15-Mar-2023)

The Basis of Fractal Generated Turbulence on Finned-tube Heat Exchanger Forced Convective Heat Transfer Augmentation

Dr. Ze Yang Ding

(Specialisation: Mechatronics engineering) (Conferred: 15-Mar-2023)

Deep Learning for Reliable Soft Sensor Development

Dr. Shashika Madhusanka Gajanayake

(Specialisation: Geotechnical engineering) (Conferred: 15-Mar-2023)

Development of a Sustainable Method for the Extraction of Methane Gas from Subaquatic Hydrate Reservoirs

Dr. Mun Chon Ho

(Specialisation: Electronic & computing) (Conferred: 15-Mar-2023)

Traffic Congestion Reduction using Trip Calibration, Vehicle Rerouting, and Traffic Light Control in Intelligent Transportation System

Dr. Monika Michalska

(Specialisation: Materials engineering) (Conferred: 15-Mar-2023)

Low-temperature nickel oxide hole-transporting layers for perovskite solar cells

Dr. Ali Shan

(Specialisation: Transport engineering) (Conferred: 15-Mar-2023)

Joint design and performance evaluation of first-mile shared autonomous vehicle mobility and railway transit networks

Dr. Xin Zou

(Specialisation: Transport engineering) (Conferred: 15-Mar-2023)

Modelling Public Perception and Acceptance of Autonomous Vehicles

Dr. Rezan Adnan Moh'D Al-Jafary

(Specialisation: Biomedical engineering) (Conferred: 29-Mar-2023)

Construction of a Simulation-Based ECMO Educational Suite

Dr. Punthila Erandi Jayarathne

(Specialisation: Transport engineering) (Conferred: 29-Mar-2023)

Cycling to the train station: realising the latent demand and capitalising on the opportunities of the COVID-19 disruption

Dr. Nguyen Hoai An Le

(Specialisation: Mechanical engineering) (Conferred: 29-Mar-2023)

Acoustofluidic applications in the synthesis and delivery of nanomedicine

Dr. Chen Li

(Specialisation: Materials engineering) (Conferred: 29-Mar-2023)

Exploration of Hybrid Additive Manufacturing: Rolling Assisted Direct Energy Deposition of Inconel 718 Superalloy

Dr. Shamseldin Awad Hagahmed Mohamed

(Specialisation: Chemical engineering) (Conferred: 29-Mar-2023)

Carbon dioxide conversion to polycarbonates via CO₂/cyclohexene oxide copolymerization over heterogeneous zinc cobalt catalyst

Dr. Charanjit Kaur Surjit Singh

(Specialisation: Chemical engineering) (Conferred: 29-Mar-2023)

Spray-drying of Pickering emulsion stabilized by chitosan/alginate for microencapsulation and controlled delivery of palm tocotrienols

Dr. Ricky Sutopo

(Specialisation: Electronic & computing) (Conferred: 29-Mar-2023)

An Adaptive Framework for Optimized Passenger Flow in Urban Public Transportation Networks Using Deep Learning

Dr. Charles Troeung

(Specialisation: Mechanical engineering) (Conferred: 29-Mar-2023)

Design and Modelling of Tendon-Driven Continuum Robots Based on Pseudo-Rigid Body and Constraint Analysis

Dr. Shun Wu

(Specialisation: Materials engineering) (Conferred: 29-Mar-2023)

Development of additively manufactured nickel-based superalloys toward optimal creep performance

Dr. Yanjun Yang

(Specialisation: Mechanical engineering) (Conferred: 29-Mar-2023)

Towards shared autonomy in laparoscopic surgery: a foot interface controlled endoscope-holding robot

Dr. Xinyue Yao

(Specialisation: Mechanical engineering) (Conferred: 29-Mar-2023)

Acoustic Emission Study of Fatigue Crack Progression in Additive Manufactured Components

Dr. Hassan Ali Abid

(Specialisation: Mechanical engineering) (Conferred: 21-Apr-2023)

PCR techniques with miniature samples

Dr. Mohamed Amsal

(Specialisation: Mechanical engineering) (Conferred: 21-Apr-2023)

Investigation of Evaporation and Combustion Characteristics of Biodiesel

Dr. Sobhan Hatami

(Specialisation: Civil engineering) (Conferred: 21-Apr-2023)

Engineering Multiphase Flow in Fractures Using Silica Sol Gels as Blocking Agents

Dr. Fatemeh Heydari

(Specialisation: Electrical engineering) (Conferred: 21-Apr-2023)

Wearable monitoring vital sign system based on Bio-impedance

Dr. Ezhilsabareesh Kannadasan

(Specialisation: Mechanical engineering) (Conferred: 21-Apr-2023)

Spectral energy cascade and scale interaction analysis in a spatially evolving turbulent channel flow

Dr. Chang Liu

(Specialisation: Chemical engineering) (Conferred: 21-Apr-2023)

Design and engineering of functional nanobodies for biosensing applications

Dr. Chawaphon Prayoonyong

(Specialisation: Electrical engineering) (Conferred: 21-Apr-2023)

Coherent comb sources on a photonic chip

Dr. Yee Wen Teh

(Specialisation: Chemical engineering) (Conferred: 21-Apr-2023)
Development of Bi₂WO₆-Based Z-Scheme Photocatalytic
Systems for the Reduction of Carbon Dioxide into Methane

Dr. Zhuyuan Wang

(Specialisation: Materials engineering) (Conferred: 21-Apr-2023)
Polymer-assisted Scalable Exfoliation of 2D Materials and Their Application for CO₂ Energy Harvesting

Dr. Mohamad Fahmi Bin Azlan

(Specialisation: Mechanical engineering) (Conferred: 04-May-2023)
Optimization of Horizontal Axis Wind Turbine Performance through Novel Hybrid Passive Flow-Field Control
Technique

Dr. Yon Sin Chan

(Specialisation: Mechanical engineering) (Conferred: 04-May-2023)
Upper Extremity Musculoskeletal Analysis of Oil Palm Fresh Fruit Bunch Harvesting

Dr. Wanqing Chen

(Specialisation: Engineering - other) (Conferred: 04-May-2023)
Engineering Properties of Two-dimensional (2D) Materials by Ultraviolet (UV) Light

Dr. Margeaux Hodgson-Garms

(Specialisation: Biomedical engineering) (Conferred: 04-May-2023)
Towards improved clinical translation of MSC therapies: A comprehensive comparative characterisation of iPSC
and tissue-derived MSCs

Dr. Guanghui Ma

(Specialisation: Communications technologies) (Conferred: 04-May-2023)
Handover Management in Hybrid LiFi and WiFi Networks

Alireza Zarei

(Specialisation: Chemical engineering) (Conferred: 04-May-2023)
Catalytic Role of Waste Tyre Char in the Upgrading of Biomass Pyrolytic Bio-Oil

Dr. Md Didarul Islam

(Specialisation: Electrical engineering) (Conferred: 17-May-2023)
Real-time Simulation, Control, and Monitoring of Modular Multi-level Converter

Xingchen Du

(Specialisation: Civil engineering) (Conferred: 17-May-2023)
DIC Deformation Measurement and CNN-based Crack Quantification of Concrete under Biaxial Compression

Dr. Seyed Mostafa Hallaji

(Specialisation: Civil engineering) (Conferred: 17-May-2023)
A Digital Twin-driven framework for predictive maintenance in water infrastructure using BIM and Deep
Learning

Dr. Ted Sian Lee

(Specialisation: Mechanical engineering) (Conferred: 17-May-2023)
Piezoelectric on Fractals Induced Flow Dynamic: Turbulence Management

Dr. Zunaira Naseem

(Specialisation: Structural engineering) (Conferred: 17-May-2023)

Graphene-engineered Polymer cement composites: Antifoaming mechanism enabled performance enhancement

Dr. Wei Hong Ng

(Specialisation: Civil engineering) (Conferred: 17-May-2023)

Structural Behaviours of Concrete-filled Steel Tubular (CFST) Connections with Innovative One-sided Bolts

Dr. Bryan Ee Xern Ang

(Specialisation: Biomedical engineering) (Conferred: 31-May-2023)

Bacterial concentration and detection with ultrasound

Dr. Kristian Hendrata

(Specialisation: Chemical engineering) (Conferred: 31-May-2023)

A Facile Method of Surface Modification using Octadecyltrichlorosilane for the Fabrication of Superhydrophobic Coating and Optimization to Improve Transparency

Dr. Chia Chun Lee

(Specialisation: Mechanical engineering) (Conferred: 31-May-2023)

Experimental and Computational Studies on Alternative Liquid Fuels in Laminar Coflow Diffusion Flames

Dr. Fenge Lin

(Specialisation: Chemical engineering) (Conferred: 31-May-2023)

Three-dimensional gold nanowires composites for soft elastronics

Dr. Jingwei Liu

(Specialisation: Civil engineering) (Conferred: 31-May-2023)

Automatic Road Distress Monitoring for Maintenance using Artificial Intelligence

Dr. Jun Zhou

(Specialisation: Civil engineering) (Conferred: 31-May-2023)

Highly Stable Aqueous Foams as Improved Fracking Fluid for Unconventional Reservoirs

Dr. Qinwen Liu

(Specialisation: Chemical engineering) (Conferred: 09-Jun-2023)

Experimental and Numerical Simulation Research on Oxy-fuel Co-Combustion of Coal and Biomass in Fluidized Beds

Yuan Zhe Aw

(Specialisation: Chemical engineering) (Conferred: 15-Jun-2023)

Encapsulation of bioactive lipophilic curcumin using Pickering emulsion for food-grade hydrogel and aerogel applications

Dr. Michell Kim Ting Chee

(Specialisation: Chemical engineering) (Conferred: 15-Jun-2023)

Photocatalytic Seawater Splitting for Hydrogen Evolution by Graphitic Carbon Nitride-based Photocatalysts

Dr. Wanrui Hu

(Specialisation: Civil engineering) (Conferred: 15-Jun-2023)

Dynamic Fracturing and Fragmentation of Rock Materials: Effect of Strain Rate and Confinement

Dr. Alexander Dac Nguyen

(Specialisation: Materials engineering) (Conferred: 15-Jun-2023)

Magnetotransport and Temperature Dependent Resistivity Measurements in Disordered Bi₂Te₃

Dr. Yu Xuan Teo

(Specialisation: Mechanical engineering) (Conferred: 15-Jun-2023)

Biomechanics Study of Oil Palm Fruit Harvesting: Towards the Use of Assistive Exoskeleton

Junlin Yan

(Specialisation: Materials engineering) (Conferred: 15-Jun-2023)

Use of Atomic Layer Deposition for Charge Transport Layers and Interface Modification in Perovskite Solar Cells

Dr. Yasin Zabihinia Gerdroodbari

(Specialisation: Electrical engineering) (Conferred: 15-Jun-2023)

Control and Management of Distributed Energy Resources in Smart Distribution Networks

Dr. Jie Zhao

(Specialisation: Chemical engineering) (Conferred: 15-Jun-2023)

Strategies for Efficient and Stable Perovskite Solar Cells and Modules

Dr. Hongyu Zhou

(Specialisation: Mechanical engineering) (Conferred: 15-Jun-2023)

Adaptive Grasping with Tactile Sensing for Robotic Fruit Harvesting

Dr. Sulaiman Abdullah Said Al Hasani

(Specialisation: Electrical and electronic engineering and technology- other) (Conferred: 10-Jul-2023)

Accelerated Magnetic Resonance Imaging using Non-Fourier Encoding in Parallel Compressive Sensing and Deep learning Frameworks

Dr. Rashed Ali N Alsharif

(Specialisation: Civil engineering) (Conferred: 10-Jul-2023)

Occupant Comfort Versus Building Energy Performance: Generalisable Artificial Intelligence Frameworks for Optimum Trade-offs

Dr. Nooshin Asadi

(Specialisation: Chemical engineering) (Conferred: 10-Jul-2023)

Experimental and Computational Investigation of Ionic Liquid-Assisted Formaldehyde Synthesis via Direct CO Hydrogenation

Dr. Nathan Toshihiro Eden

(Specialisation: Chemical engineering) (Conferred: 10-Jul-2023)

Lithium Separations Using Advanced Porous Material Composites

Dr. Huaiyu Liu

(Specialisation: Materials engineering) (Conferred: 10-Jul-2023)

Textures and Mechanical Properties of Extruded Mg Alloys Containing Rare-earth Elements

Dr. Adrian Chun Minh Loy

(Specialisation:) (Conferred: 10-Jul-2023)

Transformation Of Glycerol To High-Value Chemicals Using Ceria Based Catalysts: A Selective Hydrogenation Roadmap

Dr. Jie Luo

(Specialisation: Materials engineering) (Conferred: 10-Jul-2023)
Mechanical Stability of Austenite

Dr. Abhishek Pandey

(Specialisation: Materials engineering) (Conferred: 10-Jul-2023)
Intergranular corrosion of 316L stainless steel manufactured by laser powder bed fusion

Dr. Sheik Ambarine Banon Auckloo

(Specialisation: Materials engineering) (Conferred: 13-Jul-2023)
Fabrication and characterization of electrospun polyurea nanocomposite films and vacuum-assisted carbon fibre/polyurea composites

Dr. Zafira Binti Madzin

(Specialisation: Environmental engineering) (Conferred: 13-Jul-2023)
Performance of spent mushroom compost biochar as filter media in metal retention pond system for heavy metal removal in abandoned mine water

Dr. Liuxin Chen

(Specialisation: Civil engineering) (Conferred: 13-Jul-2023)
Modelling of hydro-mechanical shakedown and ratcheting of unsaturated granular materials

Dr. Samuel Gershom Easanesan

(Specialisation: Automotive engineering) (Conferred: 13-Jul-2023)
The application of flow control for bluff body drag reduction

Dr. Panahsadat Fasihi

(Specialisation: Mech and industrial eng and tech general) (Conferred: 13-Jul-2023)
Improving Wear and Rolling Contact Fatigue Performance of Railway Rails Using Friction Modifiers and Laser Cladding

Dr. Dimuthu Nilusha Jayasingha

(Specialisation: Electrical and electronic engineering and technology- other) (Conferred: 13-Jul-2023)
Joint design of precoder and estimator for networked state estimation

Dr. Mei Wern Andrea Liew

(Specialisation: Electrical engineering) (Conferred: 13-Jul-2023)
Deep Learning Techniques in MRI images for Brain Cancer Segmentation and Detection through Domain Adaptation via Dataset Fusion and Semi Supervised Learning strategies

Siyuan Liu

(Specialisation: Chemical engineering) (Conferred: 13-Jul-2023)
Gold nanowire based biosensors for thermal and mechano transduction monitoring

Dr. Anumol Mathai

(Specialisation: Communications technologies) (Conferred: 13-Jul-2023)
3D Transparent and Specular Object Inspection

Dr. Khanisya Palaniandy

(Specialisation: Materials engineering) (Conferred: 13-Jul-2023)
Synthesis and characterization of high performance aliphatic polyurea composites for corrosion protection

Abu Naushad Parvez

(Specialisation: Materials engineering) (Conferred: 13-Jul-2023)

Etch rate study of inductively coupled plasma reactive ion etching of image reversal AZ 5214E photoresist coated multiple inorganic substrates.

Dr. Boya Zhao

(Specialisation: Chemical engineering) (Conferred: 13-Jul-2023)

Concepts Toward Efficient Back-Contact Perovskite Solar Cells

Dr. Abhishek Kumar Arya

(Specialisation: Materials engineering) (Conferred: 14-Jul-2023)

Optimization Of Geometrical Parameters For Chemical Vapor Deposition Of Uniform And Multilayer Graphene On Metals And Alloys For The Improved Corrosion Resistance

Dr. Chen Chen Er

(Specialisation: Chemical engineering) (Conferred: 26-Jul-2023)

Mechanistic Insights into the Fundamentals of Photocatalytic Reduction of Carbon Dioxide from First Principles Density Functional Theory Studies

Dr. Marina George

(Specialisation: Materials engineering) (Conferred: 26-Jul-2023)

Design and fabrication of nanostructured surfaces for mammalian and bacterial cellular manipulation

Dr. Xumeng Liu

(Specialisation: Communications technologies) (Conferred: 26-Jul-2023)

Adaptive optical equalization for optical communication systems

Dr. The Danh Phan

(Specialisation: Transport engineering) (Conferred: 26-Jul-2023)

Machine learning for activity-based models: Toward personalised preferences and mobility tastes

Dr. Rahul Sharma

(Specialisation: Chemical engineering) (Conferred: 26-Jul-2023)

Functionalised Cellulosic Materials

Dr. Ankit Shringi

(Specialisation: Construction engineering) (Conferred: 26-Jul-2023)

Mixed Reality for Enhancing Hazard Recognition and Safety Performance in Construction Operations

Dr. Chuqi Wan

(Specialisation: Civil engineering) (Conferred: 26-Jul-2023)

Mechanical performance of elliptical one-sided bolts for structural assembly

Dr. Fatema-Tuz Zohra

(Specialisation: Electrical engineering) (Conferred: 26-Jul-2023)

Health Monitoring of Mining Conveyor Belt using RFID Sensors: A ML Based Approach

Dr. Qianying Guo

(Specialisation: Chemical engineering) (Conferred: 09-Aug-2023)

Microstructure Characterization of CsPbI₂Br₂ perovskite material with potassium incorporation

Dr. Marcelo Henriques Da Silva

(Specialisation: Environmental engineering) (Conferred: 09-Aug-2023)

Interactions between waterholes and riparian vegetation in remote and data-scarce dryland anabranching rivers

Dr. Changhui Li

(Specialisation: Chemical engineering) (Conferred: 09-Aug-2023)

Development of a novel nebulizer based on the numerical and experimental study of the aerosolization mechanisms

Dr. Mahsasadat Naseri

(Specialisation: Transport engineering) (Conferred: 09-Aug-2023)

Built environment and active travel during COVID-19

Dr. Yubing Ouyang

(Specialisation: Civil engineering) (Conferred: 09-Aug-2023)

The impact of moisture on the deformation of porous media: AI-assisted nanomechanics approach

Dr. Luis Alberto Verdugo

(Specialisation: Chemical engineering) (Conferred: 09-Aug-2023)

Separation of Graphite from Lithium Metal Oxides in Spent Lithium Ion Batteries Using Flotation Technology

Dr. Urvashi Bothra

(Specialisation: Materials engineering) (Conferred: 18-Aug-2023)

Structural and Spectroscopic Investigation of Nanomorphology in Bulk Heterojunction Organic Solar Cells

Dr. Mohit Singh Choudhary

(Specialisation: Electronic engineering) (Conferred: 18-Aug-2023)

Highly EMI-Immune Nano-Scale Integrated Circuits For High-speed Wireline Communication

Dr. Pallavi Goswami

(Specialisation: Civil engineering) (Conferred: 18-Aug-2023)

Hydrological Droughts in a Changing Climate: Non-stationarity in Low Flow Regimes

Dr. Anil Kumar

(Specialisation: Geotechnical engineering) (Conferred: 18-Aug-2023)

Statistical and machine learning models for the evaluation of geophysical and geomechanical data

Dr. Ami Lalit Mehta

(Specialisation: Biomedical engineering) (Conferred: 18-Aug-2023)

Fabrication and development of a blood-brain barrier microfluidic chip to mimic the brain vasculature

Dr. Sumit Kumar Maurya

(Specialisation: Materials engineering) (Conferred: 18-Aug-2023)

Understanding the deformation and fracture behavior of Al/Ti nanolayered metal composites

Dr. Uzma Bano Memon

(Specialisation: Chemical engineering) (Conferred: 18-Aug-2023)

2D material system for toxic gas sensing

Dr. Prasanna Ravindran Kamal Prakash Nair

(Specialisation: Biomedical engineering) (Conferred: 18-Aug-2023)

Using SAW devices to explore cell-sorting and biosensing for the diagnosis of blood cell pathologies in point-of-care settings

Dr. Alhad Parashtekar

(Specialisation: Materials engineering) (Conferred: 18-Aug-2023)

Grain size stabilization, and the effect of grain size and stoichiometry on supercapacitor behaviour of nickel oxide

Dr. Prashant Vivek Patil

(Specialisation: Electrical and electronic engineering and technology- other) (Conferred: 18-Aug-2023)

Robust state and unknown input estimation: novel algorithms for practical use and predictive control schemes

Dr. Shachi Saluja

(Specialisation: Biomedical engineering) (Conferred: 18-Aug-2023)

Ophthalmic drug delivery with porous silicon microparticles

Dr. Nimita Shinde

(Specialisation: Engineering - other) (Conferred: 18-Aug-2023)

Memory-efficient structured convex optimization

Dr. Kesav Unnithan Sreekuttan Lakshmi Devi

(Specialisation: Environmental engineering) (Conferred: 18-Aug-2023)

Rapid flood inundation mapping and modelling approaches for large-scale data-scarce regions

Dr. Dhairya Rajendra Vyas

(Specialisation: Mechanical engineering) (Conferred: 18-Aug-2023)

Modelling Granular Collisions with Smooth Particle Hydrodynamics

Dr. Cheav Por Chea

(Specialisation: Structural engineering) (Conferred: 23-Aug-2023)

Robotization of Construction for Reciprocal Frame Structures

Dr. Brian Jong

(Specialisation: Chemical engineering) (Conferred: 23-Aug-2023)

Electrosynthesis of sustainable chemicals and energy with Escherichia coli

Dr. Muhammad Tahir Lakhia

(Specialisation: Structural engineering) (Conferred: 23-Aug-2023)

Web Crippling Resistance of Glass Fibre-Reinforced Polymer Sections Strengthened with Fibre-Reinforced Epoxy Composite

Hao Liu

(Specialisation: Materials engineering) (Conferred: 23-Aug-2023)

Modification of ZnO Electron Transport Layers with Benzoic Acid Derivatives in Non-fullerene-based Organic Solar Cells

Dr. Tianyu Zhu

(Specialisation: Computer engineering) (Conferred: 23-Aug-2023)

Towards End-to-End Deep Learning for Visual Detection and Tracking

Dr. Zhenqi Cai

(Specialisation: Civil engineering) (Conferred: 06-Sep-2023)

Self-Drilling Screw Connections for Pultruded Fibre Reinforced Polymer Composites

Dr. Siqi Deng

(Specialisation: Chemical engineering) (Conferred: 06-Sep-2023)

Microfabrication and Design Techniques for Back-Contact Perovskite Solar Cells

Dr. Cheng Liu

(Specialisation: Chemical engineering) (Conferred: 06-Sep-2023)

Development of Low-emission Pyro-hydrolysis Technology for HCl Regeneration from CaCl_2 Waste

Zhi Hui Chin

(Specialisation: Mechatronics engineering) (Conferred: 20-Sep-2023)

Design and Development of a Stiffness Varying Soft Robot Arm Module

Dr. Yi An Lim

(Specialisation: Chemical engineering) (Conferred: 20-Sep-2023)

Efficient microalgae-based carbon capture through optimisation of mixing mechanisms in flat panel photobioreactors

Dr. Chin Chyi Loo

(Specialisation: Materials engineering) (Conferred: 20-Sep-2023)

Nanoscale Electrical, Mechanical, and Optoelectronic Properties of III-nitrides via Advanced Atomic Force Microscopy

Dr. Seyedeh Mahnaz Modarresi Saryazdi

(Specialisation: Biomedical engineering) (Conferred: 20-Sep-2023)

A novel stem cell and biomaterial strategy to help repair the damaged brain following ischemic stroke

Yuhao Zeng

(Specialisation: Civil engineering) (Conferred: 20-Sep-2023)

Numerical Modelling and Analysis of Underground Caverns for Pumped Storage Hydropower

Dr. Mohammad Fahimizadeh

(Specialisation: Materials engineering) (Conferred: 04-Oct-2023)

Developing a smart, sustainable and multifunctional biological self-healing system for cementitious composite materials

Dr. Trong Khoa Ho

(Specialisation: Electronic engineering) (Conferred: 04-Oct-2023)

Ka-band Phase Shifter for Tri-band (L/Ku/Ka-bands) Soil Moisture Smart Antenna Array

Dr. Jia Wei Leng

(Specialisation: Chemical engineering) (Conferred: 04-Oct-2023)

Corrosion of Magnesium Anodes in Magnesium-air Battery

Dr. Muhammad Abu Bakr Siddique Pengwah

(Specialisation: Electrical engineering) (Conferred: 04-Oct-2023)

Advanced Data-Driven Techniques to Improve Visibility and Models of Power Distribution Networks

Dr. Kevin Hutomo Putera

(Specialisation: Chemical engineering) (Conferred: 04-Oct-2023)

Detection and assessment of microdamage accumulation on the Anterior Cruciate Ligament

Dr. Kar Ying Thum

(Specialisation: Biomedical engineering) (Conferred: 04-Oct-2023)

Right Heart Flow Dynamics with Mechanical Circulatory Support of the Pulmonary Circulation

Dr. Amir Tophel

(Specialisation: Geotechnical engineering) (Conferred: 04-Oct-2023)

Proximal Estimation of Soil Density using Sensing and Modelling

Dr. Amardeep Singh Dhillon A/L Gurdar Singh

(Specialisation: Electrical and electronic engineering and technology- other) (Conferred: 18-Oct-2023)

Zinc Oxide/SU-8/ultra-thin silicon/SU-8: A new multi-layered substrate to facilitate facile microfabrication of flexible one-port Lamb wave resonator sensors

Dr. Sarah Emad Kadhum Al-Baiaty

(Specialisation: Geotechnical engineering) (Conferred: 18-Oct-2023)

Gas Sealing Integrity of Cement-Bentonite Slurry for Cut-off Walls

Dr. Robin Kuok Cheong Chan

(Specialisation: Other engineering and related tech general) (Conferred: 18-Oct-2023)

Investigation into Urban Traffic Mobility in Malaysia for Intelligent Transportation System

Khai Hoe Lee

(Specialisation: Mechatronics engineering) (Conferred: 18-Oct-2023)

Unmanned Surface Vehicle (USV) for Water Sampling and Monitoring

Dr. Kai Liu

(Specialisation: Biomedical engineering) (Conferred: 18-Oct-2023)

Study on the Haemolysis in Porous Media for Blood Separation

Dr. Jun Mann Loh

(Specialisation: Chemical engineering) (Conferred: 18-Oct-2023)

Process development of enzymatic biodiesel production from sludge palm oil using a low-cost liquid lipase from *Aspergillus oryzae*

Dr. Chathuri Jayamali Maha Madakalapuge

(Specialisation: Geotechnical engineering) (Conferred: 18-Oct-2023)

Advancement of Pavement Design for Practical Use Incorporating Climatic Effects for Unbound Pavements with Thin Seals

Dr. Yasmin Nazirah Binti Mohd Zaifullizan

(Specialisation: Mechanical engineering) (Conferred: 18-Oct-2023)

Investigation Of Thermo-Kinetic Characteristics of Pyrolysis Products From Oil Palm Biomass and Pyrolysis Modeling using Hybrid Artificial Intelligence

Dr. Thi Mai Nguyen

(Specialisation: Civil engineering) (Conferred: 18-Oct-2023)

Using an L-band radiometer for moisture measurement in road construction

Dr. Zhixiong Song

(Specialisation: Aerospace engineering) (Conferred: 18-Oct-2023)

Mechanics and Applications of Frugal Manufactured Materials and Functional Surfaces

Dr. Kah Hui Tan

(Specialisation: Materials engineering) (Conferred: 18-Oct-2023)

Electrochemical interaction between ferroelectric BiFeO₃ thin film and water

Dr. Farin Yazdan Parast

(Specialisation: Mechanical engineering) (Conferred: 18-Oct-2023)

Microfluidic Cell Sorting and Analysis for Assisted Reproduction

Dr. Kai Yen Yong

(Specialisation: Mechanical engineering) (Conferred: 18-Oct-2023)

Ultrafast water permeation property of carbon nanostructured functionalised surfaces

Dr. Yogita Ahuja

(Specialisation: Mechanical engineering) (Conferred: 01-Nov-2023)

Evaluating Friction stir welding (FSW) as a novel thermomechanical technique for creating high strength copper composites

Dr. Prakash Aryal

(Specialisation: Chemical engineering) (Conferred: 01-Nov-2023)

Reactive Flash Volatilisation of Waste Grassy Biomass for Hydrogen Production

Dr. Kal Dean Backman

(Specialisation: Mechatronics engineering) (Conferred: 01-Nov-2023)

Learning to Assist and Communicate in Shared Autonomy Systems

Dr. Mohammad Ziauddin Chowdhury

(Specialisation: Chemical engineering) (Conferred: 01-Nov-2023)

Organic Electrolytes For Rechargeable Zn-Air Battery

Dr. Cheng May Fung

(Specialisation: Chemical engineering) (Conferred: 01-Nov-2023)

Development of Phosphorus-based Systems for Efficient Photocatalytic Carbon Dioxide Reduction to Methane

Dr. Kaushal Kabit Kishore

(Specialisation: Geotechnical engineering) (Conferred: 01-Nov-2023)

The development of quantitative moisture monitoring methods for intelligent soil compaction using ground penetrating radar

Dr. Yan Lu

(Specialisation: Chemical engineering) (Conferred: 01-Nov-2023)

Low Dimensional Noble-metallic Nanomaterials for Soft Bioelectronics

Dr. Mak Nguoy Lamn

(Specialisation: Biomedical engineering) (Conferred: 01-Nov-2023)

Computational modelling of thermochemical processes during thermochemical ablation in biological tissue

Mahmoud Mohamed Sayed Moursy

(Specialisation: Structural engineering) (Conferred: 01-Nov-2023)

Uplift Analysis of Isolated Spread Footings for Overhead Transmission Lines Under Drained Loading: A Parametric and Comparative Study

Dr. Nitish Rai

(Specialisation: Chemical engineering) (Conferred: 01-Nov-2023)

Novel strategies towards stable perovskite solar cells

Dr. Hajar Samadian

(Specialisation: Biomedical engineering) (Conferred: 01-Nov-2023)

Folate Binding Protein for Cancer Treatment

Dr. Senarathna Asanka Sanjeewa Kumara De Silva

(Specialisation: Geotechnical engineering) (Conferred: 15-Nov-2023)

Advanced characterisation of bituminous emulsion treated unsealed road materials for improved dust suppression and mechanical performance

Miranda Ming Ge

(Specialisation: Engineering education) (Conferred: 15-Nov-2023)

An Investigation of Children's and Parents' Perceptions of Engineers and Engineering

Dr. Kaveh Mirzaei

(Specialisation: Civil engineering) (Conferred: 15-Nov-2023)

AI-based geometric quality inspection of construction projects with point clouds

Dr. Yunyan Xing

(Specialisation: Computer engineering) (Conferred: 15-Nov-2023)

Towards Clinical Acceptance of Artificial Intelligence in Healthcare

Dr. Zeeshan Ali

(Specialisation: Applied mathematics) (Conferred: 29-Nov-2023)

Theoretical and Computational Study of Fractional-order Mathematical Models for Infectious Diseases

Dr. Babak Khadivboroujeni

(Specialisation: Geotechnical engineering) (Conferred: 29-Nov-2023)

Investigation into the Fracturing Process of Intact Rocks under various Stress Conditions

Dr. Yanjian Lian

(Specialisation: Civil engineering) (Conferred: 29-Nov-2023)

A multiphysics computational SPH framework for solving coupled THM problems in geomechanics

Dr. Izabela Elzbieta Milogrodzka

(Specialisation: Biomedical engineering) (Conferred: 29-Nov-2023)

Fusion Peptide-modified Nanoparticles as Therapeutic Delivery Vehicles

Dr. Van Doan Vu

(Specialisation: Materials engineering) (Conferred: 29-Nov-2023)

Advancing Organic Electronics: Polymorphism and Molecular Orientation

Dr. Herath Mudiyansele Kosala Sananthana Herath

(Specialisation: Electronic engineering) (Conferred: 13-Dec-2023)

Floquet Engineering of Nanostructures

Dr. Olivia Joan Kendall

(Specialisation: Mechanical engineering) (Conferred: 13-Dec-2023)

Microstructure, Residual Stresses and Mechanical Properties of Laser Clad Rail Components

Dr. Si Phu Me

(Specialisation: Electrical engineering) (Conferred: 13-Dec-2023)

Transient Stability Analysis and Enhancement of Grid-forming Inverters in the Presence of Energy Storage Systems

Dr. Yohashama P Sivagnana Kumaran

(Specialisation: Engineering - other) (Conferred: 13-Dec-2023)

Approximations to Relativistic Quantum Theory in the Non-Relativistic Regime

Dr. Zhihao Pan

(Specialisation: Automotive engineering and technology - other) (Conferred: 13-Dec-2023)

Smart pavement crack detection and repair

Dr. Siti Hanifah Adliiba

(Specialisation: Chemical engineering) (Conferred: 13-Dec-2023)

Enzymatic hydrolysis of crude palm oil to free fatty acids for the development of alcohol-free phytonutrients recovery process

Dr. Zhao Qing Tang

(Specialisation: Civil engineering) (Conferred: 13-Dec-2023)

Towards a sustainable and high-performance geopolymer binder system through nanotechnology and waste reuse

Dr. Navid Tourani

(Specialisation: Structural engineering) (Conferred: 13-Dec-2023)

Strain-Rate-Dependent Effects of Nanomaterials on the Microstructure of Cementitious Composites and the Implications for Mechanical Performance, Failure, and Fragmentation

Dr. Tharushi Devindi Wanigasekara

(Specialisation: Biomedical engineering) (Conferred: 13-Dec-2023)

Engineering techniques to improve Prehospital Extracorporeal Cardiopulmonary Resuscitation (pECPR)

Dr. Yiping Wu

(Specialisation: Mechanical engineering) (Conferred: 13-Dec-2023)

Rolling Contact Fatigue Crack Initiation and Growth in Flash-butt Rail Welds in Heavy-haul Railways

Dr. Chun Chen

(Specialisation: Materials engineering) (Conferred: 14-Dec-2023)

Microstructure And Mechanical Behaviour Of Biodegradable Zn-Cu-Ag Alloys

Dr. Xuelian Cheng

(Specialisation: Computer engineering) (Conferred: 18-Dec-2023)

3D Scene Understanding and Reconstruction with Neural Networks

Dr. Smriti Shrestha

(Specialisation: Food processing technology) (Conferred: 18-Dec-2023)

Protein-based Value Addition of Underutilised Pulses

Dr. Michael Nicholas Stavropoulos

(Specialisation: Aerospace engineering) (Conferred: 18-Dec-2023)

Resonance and the Underlying Coherent Structures in Supersonic Round Twin Jets