

CURRICULUM VITAE



Mohd Zahirasri bin Mohd Tohir, PhD Department of Chemical & Environmental Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor

Website: <u>https://sites.google.com/view/evrisk</u> Website: <u>https://sites.google.com/view/seigmy</u>

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Education

- 1. PhD Fire Engineering, 2015, University of Canterbury, New Zealand. Thesis title: Multiple Vehicle Design Fire Scenarios in Car Parking Buildings
- 2. MEng (Hons) Chemical Engineering, 2009, University of Manchester, United Kingdom.

Areas of Interest

• Fire Safety Engineering, Risk Analysis, Probabilistic Analysis, Risk Assessment

Professional Qualification / Membership / Affiliation

- Regular Member, International Association of Fire Safety Science (IAFSS)
- Member, Society of Fire Protection Engineers (SFPE)
- Member, Institute of Chemical Engineers (IChemE)

Journals

• Graduate Member, Board of Engineers Malaysia (BEM)

Appointments				
Pos	sition	Duration		
1.	Senior Lecturer, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	November 2015 to date		
2.	Tutor, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	February 2010 to November 2015		
3.	Research Assistant, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	October 2009 to January 2010		

Publications

- 1. **Tohir, M.Z.M.**, and Spearpoint, M., (2013) Distribution analysis of the fire severity characteristics of single passenger road vehicles using heat release rate data, Fire Science Reviews 2:5, http://dx.doi.org/10.1186/2193-0414-2-5
- Spearpoint, M., Tohir, M.Z.M., Abu, A.K., and Xie, P. (2015) Fire load energy densities for the risk-based design of car parking buildings. Case Studies in Fire Safety, Volume 3, 2015, Pages 44-50, ISSN 2214-398X. http://dx.doi.org/10.1016/j.csfs.2015.04.001
- Tohir, M.Z.M., and Spearpoint, M., (2017) The Capability of B-RISK Zone Modelling Software to Simulate BRE Multiple Vehicle Fire Spread Test. In: Mohamed Ali M., Wahid H., Mohd Subha N., Sahlan S., Md. Yunus M., Wahap A. (eds) Modeling, Design and Simulation of Systems. AsiaSim 2017. Communications in Computer and Information Science, vol 751. Springer, Singapore. https://doi.org/10.1007/978-981-10-6463-0_4
- 4. Zainuddin, N. A. and Tohir, **M. Z. M.** (2017) Egress time analysis for Ledang floating, production, storage and offloading unit using EvacuatioNZ. Perintis eJournal 7:1. Pp 20 30.
- 5. Tohir, M.Z.M., Spearpoint, M., and Fleischmann, C.M., (2018) Prediction of time of ignition in a



multiple vehicle fire spread experiment. Fire and Materials 42:1. pp 69-80. <u>https://doi.org/10.1002/fam.2458</u>

- Tohir M.Z.M., and Spearpoint M. (2019) Probability of Fire Spread Between Vehicles in Car Parking Buildings. In: Pradhan B. (eds) Lecture Notes in Civil Engineering, vol 9. Springer, Singapore
- Ali, S., Hussain, S. A., and **Tohir M.Z.M.** (2019) Fire Test and Effects of Fire Retardant on The Natural Ability of Timber: A Review. Pertanika Journal of Science and Technology JST Vol. 27 (2).
- 8. Akhyani, A. H. and **Tohir M.Z.M.** (2019) Tenability Analysis of Office Rooms Using Probabilistic Fire Load Energy Density Data. Journal Of Advanced Research In Fluid Mechanics And Thermal Sciences (in press)
- 9. Said, M.S.M and **Tohir, M.Z.M.** (2019) Prediction of Lithium-ion Battery Thermal Runaway propagation for Large Scale Applications Fire Hazard Quantification. Processes 2019, 7, 703.
- 10. A. K. Najeeb, **Tohir, M. Z. M.**, Said M. S. M. (2019) Quantitative risk calculation and ALOHA simulation towards leakage accident in natural gas power plant at Telok Gong, Malacca. Perintis eJournal Volume 9(1).
- Tajudin M. A. S., Tohir M. Z. M. and Said M. S. M. (2020) Probabilistic assessment of off-theshelf fire sprinkler Head activation time through laboratory experiments. IOP Conf. Ser.: Mater. Sci. Eng. 778 012075.
- Rowshanaie O, Tohir M. Z. M., Mustapha F., Ya'acob. M. E. and Rowshanaie H. (2020) Optimization and Analyzing of Subcritical Organic Rankine Cycle Using R1234ze(E) for Low and Medium Temperature Heat Source. IOP Conf. Ser.: Mater. Sci. Eng. 778 012074.
- Tohir M.Z.M., Spearpoint M., and Fleischmann C. (2020) Probabilistic design fires for passenger vehicle scenarios, Fire Safety Journal, In press, Journal pre-proof. https://doi.org/10.1016/j.firesaf.2020.103039
- 14. Zermane A., **Tohir M.Z.M.**, Yusoff H.M., and Baharudin M.R. (2020) Analysis of the Contributing Factors for Fatal Accidents due to Falls from Heights in Malaysia and the USA, Pertanika Journal of Science and Technology 28 (S1), 15 36.
- Ali, S., Hussain, S. A., Tohir M.Z.M. and Nuruddin M.A. (2020) Statistical Analysis of Malaysian Timber's Combustion data from Cone Calorimeter Test, Pertanika Journal of Science and Technology 28 (S1), 185 – 198.
- 16. Said M.S.M and **Tohir M.Z.M.** (2020) The effect of ultraviolet coating on containment and fire hazards of phase change materials impregnated wood structure, Journal of Energy Storage 32, 101727.
- Ali, S., Hussain, S. A., Tohir, M. Z. M., & Nuruddin, A. A. (2021). Investigation of kinetic decomposition characteristics of Malaysian wood species using Coats and Redfern (CR) method. Materials Today: Proceedings, 42, 178-185.
- Ong, N.A.F.M.N. & Tohir, M. Z. M (2021) Investigation of The Effects of Photovoltaic (PV) System Component Aging on Fire Properties for Residential Rooftop Applications. SFPE Europe Digital Magazine
- Malik, A. A., Nasif, M. S., Mokhtar, A. A., & Mohd Tohir, M. Z. (2021) Numerical investigation of the effect of weather conditions on the escalation and propagation of fire-induced domino effect. Process Safety Progress, e12251.



- Hamid, M. R. A., Yaw, T. C. S., Tohir, M. Z. M., Ghani, W. A. W. A. K., Sutrisna, P. D., & Jong, H. K. (2021). Zeolitic imidazolate framework membranes for gas separations: Current state-ofthe-art, challenges, and opportunities. Journal of Industrial and Engineering Chemistry.
- Md Said, M. S., Mohd Tohir, M. Z. (2021) Characterisation of thermal runaway behaviour of cylindrical lithium-ion battery using Accelerating Rate Calorimeter and oven heating, Case Studies in Thermal Engineering, 2021, 101474.
- 22. Gian, C.M., **Mohd Tohir, M.Z.**, Md Said, M.S., Tharima, A.F., Mohd Nizam Ong, N.A.F. and Ramali, M.R. (2021), "Effectiveness of travel time during evacuation in high-rise residential buildings: a case study in Selangor, Malaysia", International Journal of Emergency Services, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/IJES-09-2020-0053
- Mohd Nizam Ong, N. A. F., Sadiq, M. A., Md Said, M. S., Jomaas, G, Mohd Tohir, M. Z., & Kristensen, J. S. (2022). Fault tree analysis of fires on rooftops with photovoltaic systems. Journal of Building Engineering, 103752. doi:10.1016/j.jobe.2021.103752
- Ong, N. A. F. M. N., **Tohir, M. Z. M.**, Said, M. S. M., Nasif, M. S., Alias, A. H., & Ramali, M. R. (2022). Development of Fire Safety Best Practices for Rooftops Grid-Connected Photovoltaic (PV) Systems Installation using Systematic Review Methodology. Sustainable Cities and Society, 103637.
- Mohd Nizam Ong, NAF, Mohd Tohir, MZ, Mutlak, MM, Sadiq, MA, Omar, R, Md Said, MS. (2022) BowTie analysis of rooftop grid-connected photovoltaic systems. Process Saf Prog;e12338. doi:10.1002/prs.12338
- Zermane, A., Tohir, M. Z. M., Baharudin, M. R., & Yusoff, H. M. (2022). Risk assessment of fatal accidents due to work at heights activities using fault tree analysis: Case study in Malaysia. Safety Science, 151, 105724.
- 27. Choo, B. C., Abdul Razak, M., Dayang Radiah, A. B., **Mohd Tohir, M. Z.**, & Syafiie, S. (2022). A review on supervised machine learning for accident risk analysis: Challenges in Malaysia. Process Safety Progress.
- Ramali, M. R., Mohd Nizam Ong, N. A. F., Md Said, M. S., Mohamed Yusoff, H., Baharudin, M. R., Tharima, A. F., ... & Mohd Tohir, M. Z. (2022). A Review on Safety Practices for Firefighters During Photovoltaic (PV) Fire. Fire Technology, 1-24.
- Zulmajdi, I. U., Mohd Tohir, M. Z., & Syafiie, S. (2022). Probabilistic Fire Simulation Assessment Using Simplified Model and Zone Modelling of a Kitchen Fire Scenario. Fire Technology, 58(5), 3007-3037.
- Rowshanaie, O., Tohir, M. Z. M., Mustapha, F., Ya'acob, M. E., & Rowshanaie, H. (2022). Evaluation of Subcritical Organic Rankine Cycle by Pure and Zeotropic of Binary and Ternary Refrigerants. Pertanika J Sci Technol, 30.
- 31. Said, M. S. M., & **Tohir, M. Z. M**. (2022). Visual and thermal imaging of lithium-ion battery thermal runaway induced by mechanical impact. Journal of Loss Prevention in the Process Industries, 79, 104854.
- Abdul Hamid, M. R. Tohir, M. Z. M., Zainuddin, H. S., Razak, M. A., Yaw, T. C., & Wen, O. Y. (2023). Fire-resistance and flame-retardant surface finishing of polymers and textiles: a state-ofthe-art review. Progress in Organic Coatings. 175, 107330
- 33. Malik, A. A., Nasif, M. S., Arshad, U., Mokhtar, A. A., Tohir, M. Z. M., & Al-Waked, R. (2023). Predictive Modelling of Wind-Influenced Dynamic Fire Spread Probability in Tank Farm Due to Domino Effect by Integrating Numerical Simulation with ANN. Fire, 6(3), 85.
- 34. Zermane, A., **Tohir, M. Z. M**., Zermane, H., Baharudin, M. R., & Yusoff, H. M. (2023). Predicting fatal fall from heights accidents using random forest classification machine learning model. Safety



Science, 159, 106023.

- 35. Zermane, A., **Tohir, M. Z. M**., Baharudin, M. R., & Yusoff, H. M. (2023). Investigating patterns of workplace fatal fall injuries: Case study of Malaysia. Journal of Safety Research, 85, 492-506.
- 36. Kunalan, Y., Wan Ab Karim Ghani, W. A., **Mohd Tohir, M. Z.,** & Md Said, M. S. (2023) Assessment of self-heating and spontaneous combustion of Napier grass using thermogravimetric analysis. Environmental Progress & Sustainable Energy, e14274.
- 37. Zulmajdi, I. U., **Tohir, M. Z. M.**, Yaw, T. C. S., Harun, M. Y., & Said, M. S. M. (2023). Distribution of probabilistic design fires for single residential items. Fire safety journal, 140, 103908.
- Zulmajdi, I. U., Mohd Tohir, M. Z., Yaw, T. C. S., Harun, M. Y., & Md Said, M. S. (2023). Statistical Distribution of Heat Release Rate Data for Single Household Items. Fire Technology, 1-34.
- 39. Mohd Tohir, M. Z., & Martín-Gómez, C. (2023). Electric vehicle fire risk assessment framework using Fault Tree Analysis. Open Research Europe, 3, 178.
- 40. San, M. C. V., **Tohir, M. Z. M**., & Saadon, S. (2024). Developing an enhanced thermal radiation model through a Semi-A priori approach. International Journal of Thermal Sciences, 197, 108784.

Conference Proceedings

- 1. **Tohir, M.Z.M**, and Spearpoint, M., (2014) Development of Fire Scenarios for Car Parking Buildings using Risk Analysis. Fire Safety Science 11 (in press).
- 2. **Tohir, M.Z.M**, and Spearpoint, M., (2014) Simplified approach to predict heat release rate curves from multiple vehicle fires in car parking buildings. Published in the Proceedings from the 3rd International Fires in Vehicles Conference, Berlin, Germany.
- Tohir, M.Z.M, and Spearpoint, M., (2017) Travelling fire spread between vehicles in car parking buildings. Published in the Proceedings from the 15th International Fire and Materials Conference, San Francisco, USA.
- 4. **Tohir, M.Z.M**, and Spearpoint, M., (2017) Probability of Fire Spread Between Vehicles In Car Parking Buildings. Global Civil Engineering Conference 2017, UPM. Kuala Lumpur.
- Othman, W.N.A.W. and Tohir, M.Z.M. (2017) A Study On Evacuation Time From Lecture Halls In Faculty Of Engineering, Universiti Putra Malaysia. 4th International Conference on Civil and Environmental Engineering for Sustainability. Langkawi, Kedah.
- Rowshanaie O., Tohir M.Z.M., Mustapha F., Ya'acob M.E. and Rowshanaie H. (2019) Optimization and Analyzing of Subcritical Organic Rankine Cycle Using R1234ze(E) for Low and Medium Temperature Heat Source, Regional Symposium for Chemical Engineering.
- Tajuddin M.A.S and Tohir M.Z.M. (2019) Probabilistic assessment of off-the-shelf fire sprinkler head actuation time through laboratory experiments, Regional Symposium for Chemical Engineering.

Magazine article

- Mohd Nizam Ong N. A. F. and Tohir M.Z.M (2021) Investigation of the Effects of Photovoltaic (PV) System Component Aging on Fire Properties for Residential Rooftop Applications. SFPE Europe Digital Magazine. Issue 21 - Q1 2021
- Mohd Tohir M. Z. and Musa D. N. S. (2023) Situation Report: Getting to the Root of Peat Fires. Wildland Magazine. An offical publication of the International Association of Wildland Fire. Q2 2023

Academic Talks

 "The capability of B-RISK zone modelling software to simulate BRE multiple vehicle fire spread test" Presented at Society of Fire Protection Engineers' 2014 Engineering Technology Conference, Long Beach, California, USA.



- 2. "What is the probability of fire to spread in a car park?" Presented at Fire Protection Association New Zealand (FPANZ) FIRE NZ 2015 Conference and Exhibition, Wellington, New Zealand as International Speaker.
- 3. "Fire and Explosion Risk Management" Presented for Fire and Explosion Safety, Protection and Dynamic Risk for Petroleum and Process Plants, UTP, 2020.
- 4. "Fire and Explosion Risk Management" Presented for Fire and Explosion Safety, Protection and Dynamic Risk for Petroleum and Process Plants, UTP, 2021.

Teaching Experience

- 1. Engineering Mathematics 1 (ECC3001) 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020
- 2. Chemical Process Laboratory II (ECH3904) 2015/2016 and 2016/2017
- 3. Pollution Control Engineering (ECH3501) 2015/2016, 2016/2017, 2017/2018, 2018/2019
- 4. Dissertation Project course (ECH5988) 2015/2016 and 2016/2017
- 5. Hazard Identification and Risk Assessment (ECH5502) 2015/2016
- 6. Forensic Science (EAB5421) –2015/2016 and 2016/2017
- 7. Fire Safety Engineering and Regulations (EMM5201) 2017/2018, 2018/2019, 2019/2020, 2020/2021
- 8. Fire and Explosion Engineering (ECH5518) 2021/2022
- 9. Engineering Statistics (ECC3004) 2017/2018
- 10. Renewable Energy (ECH4506) 2021/2022
- 11. Computer Programming (ENG3202) 2022/2023

Professional Services

Editorial tasks;

- Guest Editor for Sains Malaysiana Special Issue (2019)
- Editorial Member for Asean Journal of Automotive Technology
- Editorial Member for Perintis eJournal

Journal manuscript reviewer for;

- Fire Safety Journal
- Fire Technology
- IEEE Access
- Journal of Chemical Engineering of Japan
- Journal of Engineering Science and Technology
- International Journal of Building Pathology and Adaptation
- Public Transport
- International Journal of Integrated Engineering
- Perintis eJournal
- Journal of Asian Architecture and Building Engineering
- JoVE Journal
- PERTANIKA Journal of Science and Technology
- IIUM Engineering Journal
- Results in Engineering
- Heliyon
- Results in Chemistry
- PLOS One
- International Communications in Heat and Mass Transfer
- Wood Material Science and Engineering
- Cogent Engineering
- Safety Science
- Sustainable Energy Technologies and Assessments
- International Journal of Disaster Risk Reduction
- Journal of Energy Storage
- Applied Thermal Engineering



Conference reviewer for;

- TENCON 2017 2017 IEEE Region 10 Conference
- International Conference of Chemical Engineering & Industrial Biotechnology
- 26th Regional Symposium on Chemical Engineering
- 31st Symposium of Malaysian Chemical Engineers
- Loss Prevention Asia 2021
- International Association of Fire Safety Science Symposium

Committee member for;

- 26th Regional Symposium on Chemical Engineering
- 31st Symposium of Malaysian Chemical Engineers
- RCChE and ICICET 2021
- ICICET 2023

Scientific committee member for:

 International Conference on Fire Safety Engineering Research and Practice, Sydney 24-27 Nov 2024

Honours and Awards

- Recipient of Shell Global Solutions Asia Pacific scholarship for Bachelor degree study in the United Kingdom in 2005-2009
- Recipient of Malaysian Government Scholarship for PhD study in New Zealand in 2011
- Recipient of SILVER medal for Massive Online Open Competition course in 2018
- Top downloaded article 2017-2018 in Fire and Materials journal
- Recipient of Skim Kecemerlangan Penyelidik 2018 awarded by Universiti Putra Malaysia
- Invited to attend 2018 Summer Course: Data Mining on Air Pollution Modelling as Impacts of Forest Fires (MAPFire)
- Invited to attend Frontiers of Development organized by Royal Academy of Engineering, United Kingdom in 2019
- Invited to attend 2019 Humboldt Summer School
- Appointed as a jury for XFire Innovation Challenge organized by World Wildlife Fund (WWF) 2019 – 2022
- Awarded Seal of Excellence for Marie Skłodowska-Curie Actions grant application
- Anugerah Perkhidmatan Cemerlang 2021
- Awarded Marie Skłodowska-Curie Actions Postdoctoral Fellowship by European Commission in 2022
- Invited to attend Free Little Think for Fire Grand Challenge by Conservation X Labs, Bali, Indonesia in 2023

Research Grants					
Project title	Role	Year	Source Fund	Amount (RM)	
Fire spread assessment of passenger vehicles in car parks using computational fluid dynamics simulation	Project leader	2016-2018	Geran Putra Muda (GP-IPM)	55,000	
Hybrid-micro vortex generator to control boundary-layer separation in subsonic flow	Member	2014-2017	RAGS (KPM)	74,000	
Thermal Behaviour and Toxic Emission of Commonly Use Timber in Malaysia Housing Industry	Member	2017-2019	Geran Putra	50,000	
Fire Performance and Toxic Gas Emissions of Commonly Used Timber in Malaysian Construction	Project leader	2017-2019	Geran Putra IPS	24,000	



Industry

Development of Fire Safety Guidelines for Photovoltaic (PV) solar panels installed on building structures		Project leader	2019 - 2022	AAIBE, MESTECC	,	1,000,000
Preparation and characterization of fire-retardant coating using graphene/bamboo aerogel mixtures on SAR Robotics System		Project leader	2019 - 2021	Matching C Geran Put CRG UTM	Grant, ra & 2019	40,000
Smart Robotics System and Rescue	m for Search	Member	2019 - 2021	CRG UTM	2019	160,000
Kajian Pembangunan Keselamatan Di Sekto	Indeks Budaya or Pembinaan	Member	2019 - 2020	NIOSH		90,000
3-Dimensional Modelling of Peat Thermal Decomposition for Prediction and Hazard Mitigation of Peat Forest Fire Propagation		Member	2020 - 2022	FRGS (KP	M)	96,200
Electric Vehicles Fire Assessment in Indoor	Risk car Parks	Project leader	2023-2025	European Commissio	on	919,200
PhD as main supervi	sor	Students	Supervision			
2017/2018 - Present	Work at height	s safety			Abde	rrahim Zermane
2016/2017 - Present	nt Applying Transcritical Organic Rankine Cycle Driven by Fluegas to Generate Optimum Power			Omid	Rowshanaie	
2019/2020 - Present	Pre-evacuation during fire emergencies			Abde Noum	lmoutaleb neur	
2020/2021 - Present	Peat fire suppression			Daya Musa	ng Nur Sakinah	
2020/2021 – Present Investigation of Burning Beha Toxicity of Different Types of			ehaviour and S of Photovoltaic	moke : Solar	Mays Mutla	Mahmood k
2020/2021 - Present	Modules of Different Ages Investigation of Heat Release Rate for different Components of Photovoltaic System for Residential Application			Nur F Nizan	atin Aliah Mohd n Ong	
2021/2022 - Present	Assessment of probabilistic input on zone and field model simulations			lffah I	Umairah Zulmajdi	
2021/2022 - Present Assessment of Thermal Radiation Models Performance for Different Fuel Variants			Micha San	ael Chong Vui		
PhD co-supervision	O and the stimulation of		Due no entire e e f C		0	Al:
Graduated	Combustion and Charring Properties of Common Sulaiha Ali Wood Species in Malaysia			ia All		
2016/2017 - Present	A Fuzzy Reliability with Monte Carlo Simulation and Integration With Supply Chain Management			Ahma	ad Fauzi Sagap	
2018/2019 - Present Numerical simulation of hydrogen explosion consequences			Najee	eb Khalid		



2018/2019 - Present	Optimization of Building Information Modelling (BIM) system with fire simulation and fire evacuation softwares	Nur Delisha Abdullah
2019/2020 - Present	Recovery of ceramics from aluminium oxide waste	Wang Jing Jing
2019/2020 - Present	Machine Learning for palm oil detection applications	Boon Cheong
2019/2020 - Present	High rise hospital evacuation research	Seif Abdullah
Mastar's with thosis	supervision	
2019/2020 - Present	Air pollution prediction from a coal-fired generated electricity plant in Johor	Mohd Shahril Kamarudin
2020/2021 - Present	PV fire suppression study	Mohd Rashid Ramali
2019/2020 - Present	Hospital emergency evacuation simulation	Farah Wahida Mohd Razelan
Master's without the	sis supervision	
2016/2017 Graduated	Quantitative Risk Calculation and Aloha Simulation Towards Leakage Accident in Natural Gas Power Plant At Telok Gong, Malacca	Najeeb Khalid
2016/2017 Graduated	Human Behavior: Evacuation Time of Fire Event at Lecture Hall Using Fds+Evac Simulation	Nur Amilia Zainurdin
2016/2017 Graduated	A Study on Evacuation Time from Lecture Hall In Faculty Of Engineering, UPM	Wan Nur Asnida
2015/2016 Graduated	Evaluation of risk and safety in kindergarten	Siti Salbiah Mutalib
2017/2018 Graduated	Tenability Analysis of Occupants in Single Office Rooms in Faculty of Engineering, Universiti Putra Malaysia	Abdul Haqeem Akhyani
2017/2018 Ongoing	Fire load analysis in Kuala Lumpur International Airport	Ku Abdullah Ulwan Ku Sulong
2017/2018 Graduated	Assessment of patients during evacuation at Adventist Hospital Bandung	Stephen Pardamean Sitorus
2017/2018 Graduated	Fire alarm audibility assessment in Faculty of Engineering, UPM	Nur Syazalina Alias
2017/2018 Graduated	Study of pre-movement time of occupants in Malaysia	Emi Fariza Shukor
2017/2018 Graduated	Study of reliability of off-the-shelf fire sprinkler systems in Malaysia	Muhammad Afiq Tajuddin
2018/2019 Graduated	Evacuation from high-rise building using Pathfinder simulation software	Caleb Michaelangelo
2019/2020 Graduated	Fire risk assessment of PV solar panels on building structures	Adnan Sadiq
2019/2020 Graduated	Fire risk assessment of landfills	Abdella Obeid
2019/2020	Investigation of Heat Release Rate at Difference Components of Photovoltaic System for Residential	Nur Fatin Aliah Mohd



Graduated	Application	Nizam Ong	
2020/2021	Knowledge, Attitude and Practice study on the use	Hazrina Hasni	
Graduated	of PPE in industry		
2020/2021	Consequence modelling of hydrogen storage leak in	Lim Chee Ho	
Graduated	hydrogen fuel station using ALOHA		
2021/2022	Quantitative Risk Calculation and Phast Simulation	Irwin Tan Kai Ge	
Graduated	on Wellhead Platform Natural Gas Leakage Scenario		
2021/2022	Modelling of Fire and Explosion Analysis (FEA) and	Siti Fatimah Meskam	
Graduated	Onshore Centre		
Final year undergrad	duate projects		
2014/2015	Analysis of vehicle distribution in parking buildings	Anderson C. M., and Bell N. M. (University of Canterbury)	
2015/2016	Simulation of fire spread between multiple objects	Muhamad Syahamin Zainal Abidin	
2015/2016	Determining potential fuel loads in UPM Chemical Laboratories	Farah Amr	
2016/2017	Computational fluid dynamics (CFD) simulation of hot water oil extraction from palm oil fruitlets	Nur Haninah Harun	
2016/2017	Fire evacuation strategies for process industries e.g. Oil rig, refineries etc.	Adhraa Al-Balushi	
2017/2018	Parametric characterization of Malaysian peat soil	Muhammad Adib Khlidi	
2017/2018	Carbon content characterization of Malaysan peat	Muhammad Nazrin	
2018/2019	Parametric study of carbon monoxide emission from peat soil burning	Muhammad Imran Mukmin	
2018/2019	Prediction of the ignition of household fabrics in a Malaysia living room setting	Afifah Jasni	
2019/2020	Incremental Cancer Risk Assessment of Pollutants Emissions From Coal-Fired Power Plant by Using ALOHA Dispersion Modelling	Noorazmin Rasid	
2019/2020	Thermal Decomposition of Malaysian Peat Soil using Thermogravimetric analysis	Hamidah Jamil	
2020/2021	Benchmark simulation for fire spread experiments	Iffah Umairah	
2020/2021	Assessment of Thermal Radiation Models	Michael Chong Vui	
2021/2022	Performance for Different Fuel Variants Thermogravimetric and Kinetics Study of Malaysian	San Ong Hui Ling	
2021/2022	Material Degradation Study due to Exposure	Muhammad Al-Alif	
2021/2022	Fire risk assessment of car parks	Hassan Maged	



2022/2023	Study on the Effect of Ultra-Violet (UV) and Real	Aiman Hakimi
	Aging on the Burning Characteristic of Mono-	Redzuan Ng
	Crystalline and Poly-Crystalline Solar Cells	
2022/2023	Parametric Investigation of Acetone Liquid Pool Fire Experiments on Fire Characteristics	Nor Syamimi Amalina Robane

Referees

Cesar	Martin	Gomez,
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Catedratico/Professor, Departamento de Construcción, Instalaciones y Estructuras. Escuela de Arquitectura. Universidad de Navarra, Spain

Assoc. Prof. Dr. Shamsul Izhar Siajam, Head of Department, Dept. of Chemical & Environmental Engineering, Faculty of Engineering, UPM

Abouzaid

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