



**Kurikulum Vitae Penuh  
Full Curriculum Vitae**

Url: <http://www.mohdfadzli.com>

Short CV: [http://www.mytribos.org/pdf/ShortCV\\_fadzli.pdf](http://www.mytribos.org/pdf/ShortCV_fadzli.pdf)

Google Scholar: <http://scholar.google.com.my/citations?user=MVWeki0AAAAJ>

ResearchGate: [https://www.researchgate.net/profile/Mohd\\_Fadzli\\_Bin\\_Abdollah](https://www.researchgate.net/profile/Mohd_Fadzli_Bin_Abdollah)

ORCID: <http://orcid.org/0000-0002-2460-2888>

**I. Maklumat Peribadi:  
Personal Particulars**

**Nama:** Mohd Fadzli Bin Abdollah  
**Name:** \_\_\_\_\_

**Tarikh Lahir:** 14 June 1980  
**Date of Birth:** \_\_\_\_\_

**Fakulti/Pusat:** Faculty of Mechanical Engineering  
**Faculty/Centre:** \_\_\_\_\_

**Jawatan:** Assoc. Prof. / Deputy Dean  
**Current Position:** \_\_\_\_\_

**Tetap / Sementara/Kontrak:** Permanent  
**Permanent/temporary:** \_\_\_\_\_

**Gred Kumpulan:** DS54  
**Gred position:** \_\_\_\_\_

**Tarikh Pertama Berkhidmat di UTeM:** 1 September 2005  
**Date of First Appointment with UTeM:** \_\_\_\_\_

**Nombor Telefon:** 06-2346805  
**Telephone Number:** \_\_\_\_\_

**E-mel:** mohdfadzli@utem.edu.my  
**E-mail:** \_\_\_\_\_

**Tarikh Pengemaskinian CV:** 19 March 2018  
**Date of CV updated:** \_\_\_\_\_

**II. A. Kelulusan Akademik dan Profesional** (Sila senaraikan semua kelulusan akademik bermula daripada Ijazah Sarjana Muda mengikut susunan kronologi)  
**Academic and Professional Qualifications** (Please list all academic qualifications, from your first degree in chronological order)

Tahun Year	Kelulusan Degree	Pengkhususan Discipline	Universiti University
2004	Bachelor of Engineering with Honors (B.Eng. (Hons.))	Mechanical Engineering	Universiti Kebangsaan Malaysia (UKM)
2005	Master of Engineering (M.Eng.)	Mechanical Engineering	Universiti Kebangsaan Malaysia (UKM)
2011	Doctor of Engineering (Dr.Eng.)	Mechanical Science and Engineering	Nagoya University, Japan

**C. Tajuk tesis pascasiswazah** (Sila senaraikan tajuk tesis bermula daripada peringkat Sarjana mengikut susunan kronologi)  
**Titles of postgraduate thesis written** (Please list all thesis written, from your Master Degree in chronological order)

- (a) Impact wear mechanisms of DLC coating, Dr.Eng., 2011
- (b) Fabrication of Porous Alumina as a Synthetic Bone in Biomedical Applications, M.Eng., 2005

**III. Anugerah akademik/penyelidikan  
Academic/research award**

- (a) Best Paper Award – ISORIST'17
- (b) Outstanding Paper Award 2017 (Industrial Lubrication and Tribology Journal) by Emerald Publishing Limited, UK
- (c) Best Tribology Paper Award – APSIM2016
- (d) Candidate for Excellence Service Medal 2015 – Ministry of Higher Education Malaysia.
- (e) Excellence Service Award 2015 – Universiti Teknikal Malaysia Melaka.
- (f) University Academic Award 2015 – Quality Paper Award: Winner
- (g) University Academic Award 2014 – Potential Academic Award: Consolation prize
- (h) University Academic Award 2013 – Special Award (PECUTeM2013 Group): Winner
- (i) University Academic Award 2013 – Research Award: Consolation prize
- (j) University Academic Award 2013 – Potential Academic Award: Nomination
- (k) Excellence Service Award 2012 – Universiti Teknikal Malaysia Melaka.
- (l) University Academic Award 2012 – Special Award (PGMC2012 Group): Winner
- (m) University Academic Award 2012 – Special Award (AVT Group): Nomination
- (n) Scholarship award under academic training scheme, Universiti Teknikal Malaysia Melaka, 1 December 2008 ~ 10 November 2011.
- (o) Dean List Award 2004/2005, Faculty of Engineering, Universiti Kebangsaan Malaysia.

**IV. Bidang Penyelidikan Utama  
Main Areas of Research Interest**

- (a) Tribology (Friction and Wear of Eco-Materials)
- (b) Surface Engineering

**V. Projek Penyelidikan Yang dilaksanakan (Sila tulis tajuk, tajaan dan nombor rujukan projek sejak 2007)  
Completed/On-going research project since 2007 (Please write the title, funder and reference number)**

Duration	Title	Project Number/Source	Role	Amount	Status
1.8.2007 – 28.2.2009	A study on the re-resolution heat treatment of an aluminum alloy.	PJP/2007/FKM(6)/S00345	Project leader	RM20,000	Completed
1.9.2006 – 30.4.2008	Design and development of a semi active damper for automotive suspension system.	PJP/2006/FKM(12)/S00215	Co-researcher	RM20,000	Completed
1.4.2009 – 31.10.2011	Impact wear mechanisms of DLC coating.	Doctor of Engineering Thesis (Nagoya University; Denso Japan; UTeM)	Project leader	JPY1,000,000	Completed
2012	Perodua Eco-Challenge 2012	Perodua	Co-researcher	RM10,000	Completed
2013	Taiho Kogyo Tribology Research Foundation for Symposium & Young Tribologist Grants. (Awarded to MITC2013)	Taiho Kogyo Tribology Research Foundation (TTRF)	Project leader	USD15,000	Completed
2013	Perodua Eco-Challenge 2013	Perodua	Co-researcher	RM15,000	Completed

1.5.2012 – 30.4.2014	Engine performance and emission characteristics of hydrogen enrichment in light duty diesel engine.	FRGS/2012/FKM/TK08/02/1/F00140	Co-researcher	RM92,300	Completed
1.6.2012 – 31.5.2014	Tribological investigation of nano-based engine oil diluted with biodiesel fuel.	PJP/2012/FKM(40A)/S01044	Project leader	RM18,060	Completed
1.10.2012 – 31.5.2014	Fuel specification and engine testing.	MTUN/2012/UJP-FKM/1 M00005	Co-researcher	RM25,000	Completed
1.10.2012 – 31.3.2014	Preliminary study of the availability of using lube oil based on local straight vegetable oil in automotives and other applications.	PJP/2012/FTK(61A)/S01071	Co-researcher	RM11,000	Completed
1.10.2012 – 31.7.2014	Influence of nanolubricant on tribological performance, emissions and fuel consumption of a diesel engine.	PJP/2012/FKM(11A)/S01086	Co-researcher	RM20,000	Completed
7.6.2013 – 6.12.2014	Experimental investigation to the effect of nano-based engine oil on performance and emission characteristics of a diesel engine.	TWAS-COMSTECH Joint Research Grants (GLUAR/2013/FKM(2)/A00003)	Project leader	USD8,000	Completed
1.6.2013 – 31.12.2014	Green Technology and Business Performance among Malaysia SMEs in Manufacturing Industries	PJP/2013/FPTT(2A)/S01144	Co-researcher	RM8,100	Completed
1.12.2012 – 14.12.2015	A new thermal management of HEVs/EVs battery modules with microPCM/CNT composites.	RAGS/2012/UTEM/TK01/1	Project leader	RM79,930	Completed
15.3.2015 – 15.9.2015	Homogenizer rotor & stator re-design for high shear force & shorter cycle time	GLuar/PPRN/2015/FKE/G00030	Co-researcher	RM30,000	Completed
1.5.2013 – 30.4.2016	New strategies for energy saving: The future focus on energy efficient vehicles (EEVs) in Malaysia.	TD-FRGS/1/2013/UTEM/02/1	Program leader	RM443,280	Completed

1.6.2013 – 31.5.2016	A comparative study of tribological behaviour of new palm shell activated carbon reinforced aluminum matrix composite (PSAC-Al) in different environmental conditions.	ERGS/2013/FKM/TK01/UTEM /02/04/E00016	Project leader	RM100,000	Completed
1.6.2013 – 31.5.2015	Investigation on the mechanical properties of novel oil palm fibre reinforced-metal laminate systems.	ERGS/1/2013/TK01/UTEM/02/07	Co-researcher	RM100,000	Completed
17.12.2013 – 16.06.2016	Design for a new eco-lightweight friction material with palm oil fiber enrichment for wear characteristics study	CG060-2013	Project leader 2	RM143,750	Completed
1.10.2013 – 30.9.2015	Tribological behavior of green carbon fibre waste reinforced thermoplastic composites prepared via melt mixing	RAGS/2013/FKP/TK04/02/B00029	Co-researcher	RM70,000	Completed
1.10.2013 – 30.9.2015	Feasibility study of palm oil as new insulation medium for power transformer	RAGS/2013/FKE/TK02/01/B00024	Co-researcher	RM61,500	Completed
1.1.2013 – 31.12.2015	Proton Green Mobility Challenge	GLUAR/2013/FKE(1)/I00001	Co-researcher	RM41,000	Completed
1.8.2014 – 31.1.2016	Development of a neoprene gasket with an interlock mechanism for portable hydrogen cell	PJP/2014/FKM(13A)/S01344	Co-researcher	RM14,990	Completed
1.8.2014 – 31.1.2016	Study of transformer oil dispersed with nanoparticles as alternative insulation liquid	PJP/2014/FKE(16B)/S01363	Co-researcher	RM24,000	Completed
1.10.2013 – 29.8.2016	Wear characteristics study of a new eco-lightweight friction material with palm oil fiber enrichment	RAGS/2013/FKM/TK01/03/B00042	Co-researcher	RM68,000	Completed
1.7.2014 – 30.6.2016	A novel approach of carbon powders assisted conventional electrical discharge machining on low conductivity silicon carbide	FRGS/1/2014/TK01/FKP/02/1/F00220	Co-researcher	RM79,000	Completed

1.8.2014 - 30.01.2017	Effectiveness of lead-free bearing material with optimal surface texture-filled hBN nanoparticles for friction control	PJP/2014/FKM(9A)/S01326	Project leader	RM20,000	Completed
1.12.2014 - 30.11.2016	A new method of CFD modeling for automotive catalyst monoliths by integrating porous medium and individual channel approaches	FRGS/2/2014/TK01/FKM/02/F00231	Co-researcher	RM118,200	Completed
26.1.2015 - 25.1.2017	Investigation of the motion and force characteristic of a 3-phase driven rotary electromagnetic microactuator using FEM analysis for high thrust force and low friction motion	RACE/F3/TK5/FKE/F00249	Co-researcher	RM49,500	Completed
1.12.2014 - 30.11.2016	Experimental investigation on vibration characteristics on ball bearing operated with hexagonal boron nitride (Hbn) nanoparticle additives in engine oil	RAGS/1/2014/TK01/FKM/B00066	Co-researcher	RM55,000	Completed
1.12.2014 - 30.11.2016	Parametric investigation of biodiesel properties to the storage condition	RAGS/1/2014/TK06/FKM/B00071	Co-researcher	RM57,500	Completed
1.12.2014 - 30.11.2016	Investigation of motion and force characteristic of a 3-phase rotary electromagnetic microactuator using non-linear controller for high thrust force and low friction motion	RAGS/1/2014/TK01/FKE/B00049	Co-researcher	RM53,000	Completed
1.12.2015 - 30.11.2017	Physical property modification of vegetable oil based lubricant using zinc ion derivatives	RAGS/1/2015/TK03/UTEM/03/2	Co-researcher	RM73,490	On-going
1.12.2015 - 30.11.2017	Investigation on layer bio-adhesion of fused filament fabrication to enhance manufacturability	FRGS/1/2015/TK03/UTEM/02/14	Co-researcher	RM79,400	On-going
1.12.2015 - 30.11.2017	Physio-chemical evaluation and tribological studies of eco-friendly biodegradable novel bio-lubricants based on banana peel waste	FRGS/1/2015/TK10/UTEM/02/6	Co-researcher	RM142,300	On-going

1.12.2015 - 31.05.2018	Physical property modification of vegetable oil based lubricant using zinc ion derivatives	RAGS/1/2015/TK03/FTK/03/B00116	Project leader	RM73,490	On-going
1.8.2016 - 31.07.2018	Synthesis of graphene film from palm kernel activated carbon using chemical vapor deposition for durability control	FRGS/1/2016/TK10/FKM-CARE/F00315	Project leader	RM117,200	On-going

**VI. Senarai Anugerah Pameran/Pertandingan Penyelidikan yang diperolehi**  
**List of research exhibition/competition awards**

Name/Event	Award
UTeM Research and Innovation Expo 2017 (UTeMEX 2017)	<ul style="list-style-type: none"> <li>- <b>Gold Award</b> for product "Low cost HHO gas flow meter" (Co-Researcher)</li> <li>- <b>Silver Award</b> for product "New self-lubricating antifriction material based on palm kerner activated carbon" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "New biodiesel extracted from palm oil and waste cooking oil feedstock" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "Biodegradable self lubricating wear reducer" (Co-Researcher)</li> <li>- <b>Bronze Award</b> for product "A-low cost fire extinguisher using sound wave" (Co-Researcher)</li> <li>- <b>Bronze Award</b> for product "Nano-oil as new indicator to reduce vibration on ball bearing" (Co-Researcher)</li> <li>- <b>Bronze Award</b> for product "Lub from banana peel" (Co-Researcher)</li> </ul>
Mini UTeM Research and Innovation Expo 2016 (Mini UTeMEX 2016)	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "Diesel engine oil mixed with hexagonal boron nitride (hBN)" (Co-Researcher)</li> </ul>
UTeM Research and Innovation Expo 2015 (UTeMEX 2015)	<ul style="list-style-type: none"> <li>- <b>Gold Award</b> "Agro-waste for sustainable self-lubricating materials" (Principle Researcher)</li> <li>- <b>Special Jury Award</b> "Agro-waste for sustainable self-lubricating materials" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "µPCM-MWCNT composites as an effective thermal energy storage" (Principle Researcher)</li> </ul>
Mini UTeM Research and Innovation Expo 2014 (Mini UTeMEX 2014)	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "B-Lube" (Principle Researcher)</li> </ul>
BiInnovation Awards 2014	<ul style="list-style-type: none"> <li>- <b>Bronze Award</b> for product "New Enhanced Engine Oil with hBN Nnparticles Additive" (Principle Researcher)</li> </ul>
Malaysia Technology Expo 2014 (MTE2014)	<ul style="list-style-type: none"> <li>- <b>Bronze Award</b> for product "Emerging Lubrication Technology for Ball Bearings" (Principle Researcher)</li> </ul>
Perodua Eco-Challenge 2013 (Secretary/Advisor/Participant)	<ul style="list-style-type: none"> <li>- <b>Overall 1<sup>st</sup> Runner-Up</b></li> <li>- <b>Champion for Engineering Challenge</b></li> <li>- <b>1<sup>st</sup> Runner-Up for Longest Distance Challenge</b></li> <li>- <b>2<sup>nd</sup> Runner-Up for Time Attack Challenge</b></li> <li>- <b>2<sup>nd</sup> Runner-Up for Marketing Challenge</b></li> </ul>
UTeM Research and Innovation Expo 2013 (UTeMEX 2013)	<ul style="list-style-type: none"> <li>- <b>Gold Award</b> "Nano-Oil as Effective Lubricants for Improving a Small Diesel Engine Performance" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "Emerging Lubrication Technology of Bearing Materials" (Principle Researcher)</li> </ul>
International Conference and Exposition on Invention of Institutions of Higher Learning 2013 (PECIPTA 2013)	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "Nano-oil for a Greener Future" (Principle Researcher)</li> </ul>
BioMalaysia & Bioeconomy Asia Pacific 2013 Conference & Exhibition	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "Nano-oil for a Greener Future" (Principle Researcher)</li> </ul>

Proton Green Mobility Challenge 2012 (Head of Thermal Management/Participant):	- Overall 2 <sup>nd</sup> Runner-Up - Winner for V-Max - Winner for Best R&D - Winner for Best Sponsorship & Marketing/website
Perodua Eco-Challenge 2012 (Secretary/Advisor/Participant)	- Overall number 7

**VII. Bilangan dan no. pendaftaran Harta Intelek yang dihasilkan**  
**Quantity and registration number of Intellectual Property**

CRLY00001905 (Copyright) – Emerging Lubrication Technology for Ball Bearings (granted)

CRLY00001906 (Copyright) – Nano-oil for a Greener Future (granted)

CRLY00004439 (Copyright) – Agro-waste for sustainable self-lubricating materials (granted)

**VIII. Bilangan penerbitan dalam Jurnal Berimpak**  
**Number of publication in high index journals**

Journal	Indexing	Number of Publication
Surface and Coatings Technology	ISI (Q1)	1
Wear	ISI (Q1)	1
Tribology International	ISI (Q1)	2
Materials & Design	ISI (Q1)	1
Tribology Transactions	ISI (Q2)	1
International Journal of Advanced Manufacturing Technology	ISI (Q2)	1
Friction	ISI (Q2)	1
Composite Interfaces	ISI (Q3)	1
Particulate Science and Technology	ISI (Q3)	1
Mechanics & Industry	ISI (Q4)	2
Industrial Lubrication and Tribology	ISI (Q4)	6
International Journal of Surface Science and Engineering	ISI (Q4)	1
Jurnal Tribologi	ISI	1
Jurnal Teknologi (Sciences and Engineering)	ISI	7
Energy Education Science and Technology Part A	Scopus	1
Journal of Advanced Manufacturing Technology	Scopus	2
Procedia Engineering	Scopus	7
Applied Mechanics and Materials	Scopus	5
Advanced Materials Research	Scopus	3
Tribology Online	Scopus	3
Journal of Mechanical Engineering	Scopus	5
ARNP Journal of Engineering and Applied Sciences	Scopus	3
International Journal of Applied Chemistry	Scopus	1
Journal of Mechanical Engineering and Technology	MyCite	1
		<b>58</b>

**IX. SENARAI UTAMA PENERBITAN** (penerbitan jurnal/prosiding/buku sejak 2007 nyatakan impak faktor)  
**List of Major Publication** (Please list publication since 2007- state the impact factor) – Please use Font Arial 9

**Journal Articles: Current H-index = 6 (Scopus)**

- [1] Abdullah, M.I.H.C., Nawi, A.A.E.M., **Abdollah, M.F.B.**, & Ramlan, R. (2018). Dispersion stability of hBN nanoparticle in liquid phase with difference dispersion agents, *Journal of Mechanical Engineering*, Accepted for publication (Scopus).
- [2] Apandi, N.S.R., Ismail, R., **Abdollah, M.F.B.**, & Ramlan, R. (2018). Numerical studies on vibration characteristics on ball bearings operated under hexagonal boron nitride (hBN) nanoparticles, *Journal of Mechanical Engineering*, Accepted for publication (Scopus).
- [3] Mahmud, D.N.F., **Abdollah, M.F.B.**, Masripan, N.A.B., Tamaldin, N., & Amiruddin, H. (2018). Influence of contact pressure and sliding speed dependence on tribological characteristics of an activated carbon-epoxy composite

derived from palm kernel under dry sliding conditions, *Friction*, Accepted for publication (ISI).

- [4] Mat Tahir, N.A., **Abdollah, M.F.B.**, Tamaldin, N., Amiruddin, H., & Mohamad Zin, M.R.B. (2018). Graphene coatings technology on tribology prospective: A brief review, *Journal of Advanced Manufacturing Technology*, Accepted for publication (Scopus).
- [5] Azlan, K.A., Tamaldin, N., & **Abdollah, M.F.B.** (2018). Effects of biodiesel towards ci engine performance and emission: A brief review, *Journal of Advanced Manufacturing Technology*, Accepted for publication (Scopus).
- [6] Mat Tahir, N.A., **Abdollah, M.F.B.**, Tamaldin, N., Amiruddin, H., & Mohamad Zin, M.R.B. (2018). A brief review on the wear mechanisms and interfaces of carbon based materials. *Composite Interfaces*, In Press. DOI: <https://doi.org/10.1080/09276440.2018.1380472> (ISI).
- [7] Mohmad, M., **Abdollah, M.F.B.**, Tamaldin, N., & Amiruddin, H. (2018). Frictional characteristics of laser surface textured activated carbon composite derived from palm kernel, *International Journal of Advanced Manufacturing Technology*, 95(5-8), 2943–2949. DOI: <https://doi.org/10.1007/s00170-017-1436-1> (ISI).
- [8] Mahmud, D.N.F., **Abdollah, M.F.B.**, MASripan, N.A.B., Tamaldin, N., & Amiruddin, H. (2017). Frictional wear stability mechanisms of an activated carbon composite derived from palm kernel by phase transformation study, *Industrial Lubrication and Tribology*, 69(6), 945-951. DOI: <https://doi.org/10.1108/ILT-04-2017-0116> (ISI).
- [9] Shuhimi, F.F., **Abdollah, M.F.B.**, Kalam, M.A., MASjuki, H.H., Mustafa, A., Mat Kamal, S.E., & Amiruddin, H. (2017), Effect of operating parameters and chemical treatment on the tribological performance of natural fibre composites: A review. *Particulate Science and Technology*, 35(5), 512-524. DOI: <http://dx.doi.org/10.1080/02726351.2015.1119226> (ISI).
- [10] Mohmad, M., **Abdollah, M.F.B.**, Tamaldin, N., & Amiruddin, H. (2017). The effect of dimple size on the tribological performances of a laser surface textured palm kernel activated carbon-epoxy composite. *Industrial Lubrication and Tribology*, 69(5), 768-777. DOI: <https://doi.org/10.1108/ILT-05-2016-0121> (ISI).
- [11] Mat Tahir, N.A., **Abdollah, M.F.B.**, Hasan, R., Amiruddin, H., & Abdullah, M.I.H.C. (2017). Statistical models for predicting wear and friction coefficient of palm kernel activated carbon-epoxy composite using the ANOVA. *Industrial Lubrication and Tribology*. 69(5), 761-767. DOI: <https://doi.org/10.1108/ILT-02-2016-0031> (ISI).
- [12] Rosley, M.N., Tamaldin, N., **Abdollah, M.F.B.**, Zakaria, M.Z., & Yamin, M.K.A. (2017). Emission characteristics of hydrogen enrichment in light duty single cylinder diesel engine. *ARPJ Journal of Engineering and Applied Sciences*, 12(14), 4255-4258. (Scopus).
- [13] Lee, S.C., Tamaldin, N., & **Abdollah, M.F.B.** (2017). Tribological performance of low blend decanter cake biodiesel. *Industrial Lubrication and Tribology*. 69(3), 425-432. DOI: <http://dx.doi.org/10.1108/ILT-08-2016-0180> (ISI).
- [14] Mustafa, A., **Abdollah, M.F.B.**, Amiruddin, H., Shuhimi, F.F., & Muhammad, N. (2017). Optimization of friction properties of kenaf polymer composite as an alternative friction material. *Industrial Lubrication and Tribology*. 69(2), 259-266. DOI: <http://dx.doi.org/10.1108/ILT-05-2016-0118> (ISI).
- [15] Abdullah, M.I.H.C., **Abdollah, M.F.B.**, Amiruddin, H., Mat Nuri, N.R., & Saleman, A.R. (2017). The hBN nanoparticles as an effective engine oil additive to enhance the durability and performance of a small diesel engine. *Journal of Mechanical Engineering*, S11(1), 103-112 (Scopus). [\[Link\]](#)
- [16] Amiruddin, H., Mahmood, W.M.F.W., Abdullah, S., Mansor, M.R.A., **Abdollah, M.F.B.**, Mamat, R., & Alias, A. (2017). Effect of vaned diffuser on the performance of small turbocharger. *Journal of Mechanical Engineering*, S11(1), 227-236. (Scopus). [\[Link\]](#)
- [17] Abdullah, M.I.H.C., **Abdollah, M.F.B.**, Amiruddin, H., Tamaldin, N., & Mat Nuri, N.R. (2017). Tribological effects of nano-based engine oil diluted with biodiesel fuel. *International Journal of Surface Science and Engineering*, 11(1), 12-22. DOI: <http://dx.doi.org/10.1504/IJSURFSE.2017.10003784> (ISI).
- [18] H.A. Hamid, N.A.B. Masripan, M.F.B. Abdollah, R. Hasan, *Characterization of raw and ripen of banana peel wastes and it's oils extraction using Soxhlet method*, *International Journal of Applied Chemistry*, 12:1 (2016), pp. 1-5. (Scopus).
- [19] M.M. Zamberi, F.N. Ani, **M.F. Abdollah**, *Heterogeneous transesterification of rubber seed oil biodiesel production*, *Jurnal Teknolog (Sciences and Engineering)*, 78:6-10 (2016), pp. 105-110. DOI: <http://dx.doi.org/10.11113/jt.v78.9196> (ISI).
- [20] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Effect of hexagonal boron nitride nanoparticles as an additive on the extreme pressure properties of engine oil*, *Industrial Lubrication and Tribology*, (2016), 68:4 (2016), pp. 441-445. DOI: <http://dx.doi.org/10.1108/ILT-10-2015-0157> (ISI).
- [21] F.F. Shuhimi, **M.F.B. Abdollah**, M.A. Kalam, H.H. Masjuki, A. Mustafa, H. Amiruddin, *Tribological characteristics comparison for oil palm fibre/epoxy and kenaf fibre/epoxy composites under dry sliding conditions*, *Tribology International*, 101 (2016), pp. 247-254. DOI: <http://dx.doi.org/10.1016/j.triboint.2016.04.020> (ISI).
- [22] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, H. Amiruddin, *The effect of sliding distance at different temperatures on the tribological properties of a palm kernel activated carbon-epoxy composite*, *Tribology International*, 94 (2016), pp. 352-359. DOI: <http://dx.doi.org/10.1016/j.triboint.2015.10.001> (ISI).
- [23] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *The potential of hBN nanoparticles as friction modifier and antiwear additive in engine oil*, *Mechanics & Industry*, 17:1 (2016), pp. 104. DOI:



<http://dx.doi.org/10.1051/meca/2015037> (ISI).

- [24] A.Z.I. Abdullah, **M.F.B. Abdollah**, B.T. Tee, H. Amiruddin, A.K. Mat Yamin, N. Tamaldin, *Thermal Conductivity and Latent Heat Properties of  $\mu$ PCM/MWCNT Composites for EVs Application*, Advanced Materials Research, 1133 (2016), pp. 131-135. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.131> (Scopus).
- [25] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Effect of Diluted Nano-Oil on the Anti-wear and Friction Properties*, Advanced Materials Research, 1133 (2016), pp. 452-456. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.452> (Scopus).
- [26] M.Z. Mohd Razi, **M.F.B. Abdollah**, N.R. Mat Nuri, H. Amiruddin, N. Tamaldin, *Friction Properties of Waste Cooking Oil with Banana Peel Broth*, Advanced Materials Research, 1133 (2016), pp. 579-582. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.579> (Scopus).
- [27] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, H. Amiruddin, *The effect of temperature on the tribological properties of palm kernel activated carbon-epoxy composite*, Tribology Online, 10:6 (2015), pp. 428-433. DOI: <http://doi.org/10.2474/trol.10.428>. (Scopus).
- [28] A.Z.I. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, A.K. Mat Yamin, N. Tamaldin, *Thermal performance of  $\mu$ PCM/MWCNT composites at different ambient temperatures*, Jurnal Teknologi (Science and Engineering), 77:21 (2015), pp. 103-108. DOI: <http://dx.doi.org/10.11113/jt.v77.6615>. (ISI).
- [29] A.H. Hamid, N.A.B. Masripan, J. Basiron, M.M.B. Mustafa, R. Hasan, **M.F.B. Abdollah**, R. Ismail, *Effect of banana peels as an additive on the tribological properties of paraffin oil*, Jurnal Teknologi (Science and Engineering), 77:21 (2015), pp. 73-77. DOI: <http://dx.doi.org/10.11113/jt.v77.6610>. (ISI).
- [30] K.W. Chua, **M.F.B. Abdollah**, N.A. Mat Tahir, H. Amiruddin, *Frictional properties of palm kernel activated carbon-epoxy composite under various normal loads*, Jurnal Teknologi (Sciences and Engineering), 76:10 (2015), pp. 1-4. DOI: <http://dx.doi.org/10.11113/jt.v76.5783>. (ISI).
- [31] M.Z. Zakaria, M.N.A. Saadun, N. Idris, N.F. Haminudin, **M.F. Abdollah**, E.Z. Ahmad, *Effect of pH towards hydrogen gas output of a small and portable alkaline electrolyser*, Jurnal Teknologi (Sciences and Engineering), 76:5 (2015), pp. 49-52. DOI: <http://dx.doi.org/10.11113/jt.v76.5535> (ISI).
- [32] M.H.M. Hafidzal, M.Z.M. Razi, A. Hamzah, N.H. Razak, N.I. Zulkafli, **M.F.B. Abdollah**, S.A. Shamsudin, A. Roslizar, *Potential of mixed Zingiber officinale and Garcinia atroviridis as a treating medium for used cooking oil*, ARPN Journal of Engineering and Applied Sciences, 10:17 (2015), pp. 7784-7787. (Scopus).
- [33] H. Yusof, N. Tamaldin, **M.F.B. Abdollah**, A. Khalid, *Evaluation of the storage effect on the fuel properties for variety biodiesel blends*, ARPN Journal of Engineering and Applied Sciences, 10:17 (2015), pp. 7707-7711. (Scopus).
- [34] K.A.H. Al Mahmud, M.A. Kalam, H.H. Masjuki, **M.F.B. Abdollah**, *Tribological study of a tetrahedral Diamond-like-Carbon coating under vegetable oil-based lubricated condition*, Tribology Transactions, 58:5 (2015), pp. 907-913. DOI: <http://dx.doi.org/10.1080/10402004.2015.1025933> (ISI).
- [35] M.N.B. Rosley, N. Tamaldin, **M.F.B. Abdollah**, Z.M. Zulfattah, *The Effects of Voltage Flow and pH Value in Alkaline Electrolyser System to Performance*, Applied Mechanics and Materials, 773-774 (2015), pp. 440-444. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMM.773-774.440> (Scopus).
- [36] Y. Humairak, N. Tamaldin, **M.F.B. Abdollah**, M.F. Ali, A. Khalid, *The Storage Effect on the Fuel Properties and Emission for Variety Biodiesel Blends*, Applied Mechanics and Materials, 773-774 (2015), pp. 455-459. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMM.773-774.455> (Scopus).
- [37] N. Mohamad, A.A. Latiff, M.A. Drahman, S.R. Shamsuri, J.A. Razak, I.S. Othman, K. Juffrizal, **M.F.B. Abdollah**, H.E.A. Maulod, *Tensile Behavior of Thermoplastic Reinforced out of Condition Aerospace Grade Carbon Fiber Prepreg Waste via Melt Compounding Process*, Applied Mechanics and Materials, 761 (2015). pp. 526-530. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMM.761.526> (Scopus).
- [38] K. Juffrizal, M.Y. Nidzamuddin, C.F. Tan, **M.F.B. Abdollah**, Z.M. Zulfattah, N. Mohamad, N. M. Maslan, *The Implementation of Product Architecture in Developing Conceptual Design for Passive Grease Trap*, Applied Mechanics and Materials, 761 (2015). pp. 636-640. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMM.761.636> (Scopus).
- [39] A. Mustafa, **M.F.B. Abdollah**, N. Ismail, H. Amiruddin, N. Umehara, *Selection and verification of kenaf fibres as an alternative friction material using weighted decision matrix method*, Materials & Design, 67 (2015). pp. 577-582. DOI: <http://dx.doi.org/10.1016/j.matdes.2014.10.091> (ISI).
- [40] N. Mohamad, N.S. Zainol, F.F. Rahim, M.K.M. Salleh, M.A. Azam, M.Y. Yaakub, M.E.A. Manaf, H.E.A. Maulod, **M.F.B. Abdollah**, *Interaction of Mixing Factors with Mechanical Properties of PP/ENR Blend via Response Surface Methodology*, Journal of Mechanical Engineering, 11:1 (2014). pp. 1-14. [Link] (Scopus).
- [41] K.W. Chua, **M.F.B. Abdollah**, N.A. Mat Tahir, H. Amiruddin, *Potential of palm kernel activated carbon epoxy (PKAC-E) composite as solid lubricant: Effect of load on friction and wear properties*, Jurnal Tribologi, 2 (2014), pp. 31-38. [Link] (ISI).
- [42] A. Mustafa, **M.F.B. Abdollah**, N. Ismail, H. Amiruddin, N. Umehara, *Materials Selection for Eco-Aware Lightweight Friction Material*, Mechanics & Industry, 15:4 (2014), pp. 279-285. DOI: <http://dx.doi.org/10.1051/meca/2014039> (ISI).

- [43] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N.R. Mat Nuri, N. Tamaldin, M. Hassan, S.A. Rafeq, *Effect of hBN/Al<sub>2</sub>O<sub>3</sub> Nanoparticles on Engine Oil Properties*, Energy Education Science and Technology Part A, 32:5 (2014), pp. 3261-3268. [\[Link\]](#) (Scopus).
- [44] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, M. Hassan, S.A. Rafeq, *Improving Engine Oil Properties by Dispersion of hBN/Al<sub>2</sub>O<sub>3</sub> Nanoparticles*, Applied Mechanics and Materials, 607 (2014), pp. 70-73. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMM.607.70> (Scopus).
- [45] **M.F.B. Abdollah**, M.A.A. Mazlan, H. Amiruddin, N. Tamaldin, *Experimental Study on Friction and Wear Behaviors of Bearing Material under Gas Lubricated Conditions*, Jurnal Teknologi (Sciences and Engineering), 66:3 (2014), pp. 43-49. DOI: <http://dx.doi.org/10.11113/jt.v66.2693>. (ISI).
- [46] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Effect of hBN/Al<sub>2</sub>O<sub>3</sub> Nanoparticle Additives on the Tribological Performance of Engine Oil*, Jurnal Teknologi (Sciences and Engineering), 66:3 (2014), pp. 1-6. DOI: <http://dx.doi.org/10.11113/jt.v66.2685> (ISI).
- [47] **M.F.B. Abdollah**, M.A.A. Mazlan, H. Amiruddin, N. Tamaldin, *Friction Behaviour of Bearing Material under Gas Lubricated Conditions*, Procedia Engineering, 68 (2013), pp. 688-693. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.240>. (Scopus).
- [48] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Optimization of Tribological Performance of hBN/Al<sub>2</sub>O<sub>3</sub> Nanoparticles as Engine Oil Additives*, Procedia Engineering, 68 (2013), pp. 313-319. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.185>. (Scopus).
- [49] Z.H. Nazri, M.Z.M. Rody, **M.F.B. Abdollah**, S.A. Rafeq, H. Amiruddin, N. Tamaldin, N.A.B Masripan, *Elastohydrodynamics Lubrication For Bio-Based Lubricants in Elliptical Conjunction*, Procedia Engineering, 68 (2013), pp. 123-129. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.157>. (Scopus).
- [50] N. Tamaldin, A.K. Mat Yamin, **M.F.B. Abdollah**, H. Amiruddin, M.A. Abdullah, *Design Optimization of Thermal Management System for Electric Vehicle Utilizing CFD Analysis, DFMEA and CES*, Procedia Engineering, 68 (2013), pp. 305-312. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.184>. (Scopus).
- [51] M.H.M. Hanafi, W.M.F. Wan Mahmood, **M.F.B. Abdollah**, S.A. Rafeq, N.F.M. Nor, Z. M. Zulfattah, S.A. Shamsudin, A. Ibrahim, *Comparison of Soot Particle Movement Based on Crank Angle*, Procedia Engineering, 68 (2013), pp. 245-250. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.175>. (Scopus).
- [52] N. Mohamad, N.S. Zainol, F.F. Rahim, Hairul Effendy Ab Maulod, Toibah Abd Rahim, Siti Rahmah Shamsuri, M.A. Azam, M.Y. Yaakub, **M.F.B. Abdollah**, Mohd Edeerozey Abd Manaf, *Mechanical and Morphological Properties of Polypropylene/Epoxydized Natural Rubber Blends at Various Mixing Ratio*, Procedia Engineering, 68 (2013), pp. 439-445. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.204>. (Scopus).
- [53] S.A. Rafeq, Z.M. Zulfattah, A.M. Najib, M.Z.M. Rody, S. Fadhli, **M.F.B. Abdollah**, M.H.M. Hafidzal, *Preliminary Study of CST in Malaysia Based on Field Optical Efficiency*, Procedia Engineering, 68 (2013), pp. 238-244. DOI: <http://dx.doi.org/10.1016/j.proeng.2013.12.174>. (Scopus).
- [54] **M.F.B. Abdollah**, R. Hasan, *Preliminary design of side door impact beam for passenger cars using aluminium alloy*, Journal of Mechanical Engineering and Technology, 5:1 (2013), pp. 11-18. (MyCite).
- [55] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, N. Miyamoto, T. Tokoroyama, N. Umehara, *Future Developments of a Deformation-Wear Transition Map of DLC Coating*, Tribology Online, 7:3 (2012), pp. 107-111. DOI: <http://dx.doi.org/10.2474/trol.7.107>. (Scopus).
- [56] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, N. Miyamoto, T. Tokoroyama, N. Umehara, *Deformation-Wear Transition Map of DLC Coating Under Cyclic Impact Loading*, Wear, 274-275 (2012), pp. 435-441. DOI: <http://dx.doi.org/10.1016/j.wear.2011.11.007>. (ISI).
- [57] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, T. Tokoroyama and N. Umehara, *The Effect of Maximum Normal Impact Load, Absorbed Energy, and Contact Impulse, on the Impact Crater Volume/Depth of DLC Coating*, Tribology online, 6:6 (2011), pp. 257-264. DOI: <http://dx.doi.org/10.2474/trol.6.257>. (Scopus).
- [58] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, N. Umehara and T. Tokoroyama, *Phase Transformation Studies on the a-C Coating under Repetitive Impacts*, Surface and Coatings Technology, 205 (2010), pp. 625-631. DOI: <http://dx.doi.org/10.1016/j.surfcoat.2010.07.062>. (ISI).

#### **Journal Editorial Preface (Special Issue):**

- [1] **M.F.B. Abdollah**, *Special issue on 50 years of Tribology - sustainable manufacturing*, Industrial Lubrication and Tribology, 69:3 (2017), pp. 333. DOI: <http://dx.doi.org/10.1108/ILT-02-2017-0026> (ISI).
- [2] **M.F.B. Abdollah**, *Editorial*, International Journal of Materials and Product Technology, 53:3-4 (2016), pp. 203. [\[Link\]](#) (ISI).
- [3] **M.F.B. Abdollah**, *Guest Editorial*, Transactions of the IMF, 94:4 (2016), pp. 171. DOI: <http://dx.doi.org/10.1080/00202967.2016.1179475> (ISI).
- [4] **M.F.B. Abdollah**, *Introduction*, Journal of Materials Research, 31:13 (2016), pp. 1813-1813. DOI: <http://dx.doi.org/10.1557/jmr.2016.253> (ISI).

- [5] **M.F.B. Abdollah**, *MITC2015: Tribology for Sustainable Development*, Tribology - Materials, Surfaces & Interfaces, (2016), 10:2 (2016), pp. 63. DOI: <http://dx.doi.org/10.1080/17515831.2016.1169584> (Scopus).
- [6] **M.F.B. Abdollah**, *Preface – MITC2015 Special Issue*, Composite Interfaces, 23:6 (2016), pp. 467-468. DOI: <http://dx.doi.org/10.1080/09276440.2016.1166412> (ISI).

#### **Bulletin/Newsletter Articles:**

- [1] **M.F.B. Abdollah**, H. Amiruddin. *When should I change my tire?* in CARE Newsletter, Issue 3, 2016, pp. 5. [\[Link\]](#)
- [2] **M.F.B. Abdollah**, S. Kasolang, N.W.M. Zulkifli, M.J. Ghazali, I.C. Gabeshuber, H.H. Masjuki, *Tribology in Malaysia: General perspective*, in TTA E-Magazine, Issue 3, 2016, pp. 6-10. [\[Link\]](#)

#### **Conferences/Symposiums/Workshops Attended:**

- [1] **M.F.B. Abdollah**, *Agricultural-waste based polymeric composite as a new self-lubricating antifriction material*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017 – Keynote Speaker. [\[Link\]](#) (Google Scholar).
- [2] D.N.F. Mahmud, **M.F.B. Abdollah**, N.A.B. Masripan, H. Amiruddin, T. Tokoroyama, N. Umehara, *Synergistic effect of contact pressure and sliding speed on the friction coefficient of palm kernel activated carbon-epoxy composite*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017. [\[Link\]](#) (Google Scholar).
- [3] M. Mohmad, **M.F.B. Abdollah**, N. Tamaldin, H. Amiruddin, T. Tokoroyama, N. Umehara, *Frictional properties of laser surface textured palm kernel activated carbon reinforced polymeric composite*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017. [\[Link\]](#) (Google Scholar).
- [4] M.A.M. Alias, **M.F.B. Abdollah**, T. Tokoroyama, N. Umehara, *Effect of zinc dioctyl dithiophosphate concentrations on the friction coefficient of palm oil*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017. [\[Link\]](#) (Google Scholar).
- [5] N.A.M. Tahir, **M.F.B. Abdollah**, N. Tamaldin, H. Amiruddin, T. Tokoroyama, N. Umehara, *Potential of growing graphene from solid waste products*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017. [\[Link\]](#) (Google Scholar).
- [6] N.S.R. Apandi, **M.F.B. Abdollah**, R. Ismail, T. Tokoroyama, N. Umehara, *Effect of hexagonal boron nitride additive on the vibrations of ball bearing*. Proceedings of SAKURA Symposium Mechanical Science and Engineering 2017, Nagoya, 12 September 2017. [\[Link\]](#) (Google Scholar).
- [7] H.A. Hamid, N.A.B. Masripan, R. Hasan, G. Omar, **M.F.B. Abdollah**, *Tribological behavioural of bio-oil extracted from peel waste of musa aluminata balbisiana*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [8] N.M.B.M. Sukery, M.I.H.C. Abdullah, A. Ahmad, **M.F.B. Abdollah**, N.R.M. Nuri, *Effect of virgin coconut oil, VCO as transmission lube oil based substitute on the friction properties*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [9] A.A.E.M. Nawi, M.I.H.C. Abdullah, **M.F.B. Abdollah**, N.R.M. Nuri, M.A. Samsudin, *Investigation on hBN nanoparticle dispersion stability in liquid phase with difference dispersion agents*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [10] A.R. Zulhildi, N.A.B. Masripan, S.O.A.N. Hayder, **M.F.B. Abdollah**, G. Omar, M.I. Syakir, A.H. Nurfaizey, S.H.S.M. Fadzullah, *Effect of temperature on friction of bio-lubricant under high loading capacity*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [11] N. Tamaldin, S.R. Ruslan, A.K. Mat Yamin, A. Md Saad, **M.F.B. Abdollah**, *Development of 3-cylinder composite engine: Analysis on strength and fuel efficiency*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [12] N. Tamaldin, H.I.M. Yusof, **M.F.B. Abdollah**, G. Omar, M.I.F. Rosley, *Design self-balancing bicycle*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [13] N.S.R. Apandi, R. Ismail, **M.F.B. Abdollah**, *Numerical studies on vibration characteristics on ball bearing operated under hexagonal boron nitride (hBN) nanoparticles*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [14] N.S.R. Apandi, R. Ismail, **M.F.B. Abdollah**, *Vibration analysis of ball bearing using Finite Element Analysis*, Proceedings of Mechanical Engineering Research Day 2017, Melaka, 30 March 2017. [\[Link\]](#) (ISI-CPCI).
- [15] **M.F.B. Abdollah**, D.N.F. Mahmud, N.A.B. Masripan, H. Amiruddin, N. Tamaldin, *On the relation between phase transformation and frictional stability of palm kernel activated carbon composite during dry sliding under different loads*, Proceedings of the 2nd African Congress in Tribology, Marrakesh, 16-19 April 2017.
- [16] N. Tamaldin, M. Mohmad, **M.F.B. Abdollah**, H. Amiruddin, *Effect of sliding speed on the laser surface texturing of palm kernel activated carbon composite under lubricated condition*, Proceedings of the 2nd African Congress in Tribology, Marrakesh, 16-19 April 2017.
- [17] **M.F.B. Abdollah**, F.F. Shuhimi, M.A. Kalam, M. Hassan, H. Amiruddin, *Wear failure analysis of oil palm fiber-epoxy composite*, Proceedings of ITS-IFTtoMM/K-TIS2017, Jeju, 19-22 March 2017.



- [18] M. Mohmad, **M.F.B. Abdollah**, N. Tamaldin, H. Amiruddin, A.G. Jaharah, *Tribological characteristics of surface textured PKAC-E created by laser surface texturing under boundary lubrication*, Proceedings of International Conference on Advanced Processes and Systems in Manufacturing (APSIM 2016), Putrajaya, 28-30 August 2016. [\[Link\]](#).
- [19] D.N.F. Mahmud, **M.F.B. Abdollah**, N.A.B. Masripan, F.F. Shuhimi, H. Amiruddin, N. Tamaldin, *Bearing load capacity of a palm kernel activated carbon -epoxy composite*, Proceedings of 4<sup>th</sup> Malaysia-Japan Tribology Symposium 2016, Kuala Lumpur, 25-26 August 2016. [\[Link\]](#).
- [20] N.S.R. Apandi, R. Ismail, **M.F.B. Abdollah**, R. Ramlan, *Vibration characteristics on ball bearing operated with hexagonal boron nitride (hBN) nanoparticle mixed with diesel engine oil*, Proceedings of 4<sup>th</sup> Malaysia-Japan Tribology Symposium 2016, Kuala Lumpur, 25-26 August 2016. [\[Link\]](#).
- [21] S.C. Lee, N. Tamaldin, **M.F.B. Abdollah**, *Tribological properties of biodiesel produced from waste feedstocks*, Proceedings of ICETA2016, Taipei, 20-22 April 2016.
- [22] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, M.I.H.C. Abdullah, H. Amiruddin, N. Tamaldin, *A statistical model for predicting the tribological properties of palm kernel activated carbon-epoxy composite*, Proceedings of ICETA2016, Taipei, 20-22 April 2016.
- [23] H.A. Hamid, N.A.B. Masripan, **M.F.B. Abdollah**, R. Hasan, G. Omar, *The effect of temperatures and extraction time on bio oil extracted from banana peel wastes*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [24] A. Mustafa, **M.F.B. Abdollah**, H. Amiruddin, F.F. Shuhimi, N.A.M. Tahir, N. Muhammad, S.E. Mat Kamal, N. Ismail, *Optimization of friction coefficient of kenaf/epoxy composites as an alternative friction material using Taguchi method*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [25] N. Tamaldin, A.S. Mohamad, Y. Humairak, M.H.M. Husin, **M.F.B. Abdollah**, *Experimental Investigation of engine performance and emission for biodiesel at various storage conditions*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [26] N. Tamaldin, F. Harun, Y. Humairak, M.H.M. Husin, **M.F.B. Abdollah**, *Effect of storage duration on the fuel properties of different biodiesel blends*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [27] M.M. Zamberi, I.A.K.M. Safari, N.H. Razak, F.N. Ani, **M.F.B. Abdollah**, *Application of limestone as based catalyst in transesterification of rubber seed oil in biodiesel production*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [28] F.F. Shuhimi, **M.F.B. Abdollah**, M.A. Kalam, H.H. Masjuki, A. Mustafa, H. Amiruddin, *Surface durability of oil palm fiber/epoxy composite at various temperatures*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [29] J. Basiron, N.A.B. Masripan, **M.F.B. Abdollah**, A.H. Husna, *Effect of load on friction and wear of banana peel as an additive*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [30] K.F. Yong, B.T. Tee, **M.F.B. Abdollah**, I.S. Mohamad, C.T. Chong, *Friction and wear characteristic of different natural oil-based lubricants with carbon nanotubes as additive*, Proceedings of Mechanical Engineering Research Day 2016, Melaka, 31 March 2016. [\[Link\]](#) (ISI-CPCI).
- [31] N. Tamaldin, **M.F.B. Abdollah**, H. Amiruddin, M.A. Abdullah, M.T. Taib, *Tribological impact of CI engine piston rings under different blend ratio biodiesel*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [32] N. Mohamad, M. Mazliah, Z. Nur Sharafina, M.N. Amirul Asyraf, **M.F.B. Abdollah**, A.M. Hairul Effendy, *Compressive properties and water contact behavior of opened-cell green rubber foam at different blowing agent concentration*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [33] N. Tamaldin, **M.F.B. Abdollah**, H. Amiruddin, A.K. Mat Yamin, H.H. Masjuki, Z.M. Zulfattah, *Review of biodiesel standard development in Malaysia*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [34] M.I.H.C. Abdullah, **M.F.B. Abdollah**, N.R. Mat Nuri, H. Amiruddin, N. Tamaldin, *Comparison of the frictional properties of nano-oil and SAE 15W40 oil diluted with biodiesel fuel*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [35] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Evaluations of piston ring wear using nano hexagonal boron nitride lubricant additives in small diesel engine*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [36] A.A. Latiff, N. Mohamad, A.R. Jeefferie, M.H.M. Nasir, S. Siti Rahmah, M.A. Mahamood, M.I.H.C. Abdullah, **M.F.B. Abdollah**, *Friction and wear characteristics of recycled aerocomposite carbon fibre reinforced polypropylene composites*, Proceedings of Malaysian International Tribology Conference 2015, Penang, 16-17 November 2015. [\[Link\]](#) (ISI-CPCI).
- [37] K.A. Mohd Kassim, **M.F.B. Abdollah**, N.A.B. Masripan, H. Amiruddin, N. Tamaldin, *Banana peel as a potential additive in lubricant*, Proceedings of TURKEYTRIB2015, Istanbul, 7-9 October 2015.

- [38] M.I.H.C Abdullah, N. Tamaldin, **M.F.B. Abdollah**, H. Amiruddin, N.R. Mat Nuri, *The effect of hbn nanoparticles on the extreme pressure lubrication*, Proceedings of TURKEYTRIB2015, Istanbul, 7-9 October 2015.
- [39] **M.F.B. Abdollah**, A. Mustafa, F.F. Shuhimi, S.E. Mat Kamal, N. Ismail, H. Amiruddin, *Potential of kenaf fibers as an alternative friction material using systematic design approach*, Proceedings of International Tribology Conference 2015, Tokyo, 16-20 September 2015.
- [40] Z.M. Zulfattah, A.S. Zahari, I. Norain, R.M. Dan, B.T. Tee, U. Al Amani, **M.F.B. Abdollah**, *Scratching methods for a portable alkaline electrolyser plate*, Proceedings of International Tribology Conference 2015, Tokyo, 16-20 September 2015.
- [41] N.A. Abas, N. Tamaldin, A.K. Mat Yamin, **M.F.B. Abdollah**, *Cylinder deactivation impact on engine performance and emission for SI engine*, Proceedings of International Conference on Design and Concurrent Engineering 2015, Tokushima, 6-7 September 2015.
- [42] H. Amiruddin, **M.F.B. Abdollah**, A.M. Idris, M.I.H.C. Abdullah, N. Tamaldin, *Stability of nano-oil by pH control in stationary conditions*, Proceedings of Mechanical Engineering Research Day 2015, Melaka, 31 March 2015. [\[Link\]](#) (ISI-CPCI).
- [43] A.Z.I. Abdullah, **M.F.B. Abdollah**, B.T. Tee, H. Amiruddin, A.K. Mat Yamin, N. Tamaldin, *Thermal performance of carbon-based microencapsulated phase change materials*, Proceedings of Mechanical Engineering Research Day 2015, Melaka, 31 March 2015. [\[Link\]](#) (ISI-CPCI).
- [44] M.M.B. Mustafa, N.A.B. Masripan, **M.F.B. Abdollah**, J. Basiron, *Preliminary study on tribological properties of banana peel broth as additive in paraffin oil*, Proceedings of Mechanical Engineering Research Day 2015, Melaka, 31 March 2015. [\[Link\]](#) (ISI-CPCI).
- [45] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, H. Amiruddin, *The effect on friction coefficient and wear rate of palm kernel activated carbon-epoxy (PKAC-E) composite at different temperatures*, Proceedings of 3<sup>rd</sup> Malaysia-Japan Tribology Symposium 2014, Kuala Lumpur, 12~14 November 2014.
- [46] **M.F.B. Abdollah**, M.I.H.C. Abdullah, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *The hBN nanoparticles as an effective additive in engine oil to enhance the durability and performance of a small diesel engine*, Proceedings of 41<sup>th</sup> Leeds-Lyon Symposium on Tribology 2014, Leeds, United Kingdom, 2~5 September 2014.
- [47] H. Amiruddin, **M.F.B. Abdollah**, M.A.A. Mazlan, N. Tamaldin, *Effect of lubrication environments on wear performance of ball bearing materials*, Proceedings of 41<sup>th</sup> Leeds-Lyon Symposium on Tribology 2014, Leeds, United Kingdom, 2~5 September 2014.
- [48] **M.F.B. Abdollah**, M.I.H.C. Abdullah, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Drive to Greener Future: Tribological and Engine Performances of Nano-oil*, Proceedings of JAST Tribology Conference 2014 (International Forum on Front-line of Tribology in Asian Region), Tokyo, 19~21 May 2014 - Invited Speaker.
- [49] A. Mustafa, **M.F.B. Abdollah**, N. Ismail, H. Amiruddin, *Pre-Materials Selection for Eco-Aware Lightweight Friction Material*, Proceedings of 9<sup>th</sup> International Materials Technology Conference and Exhibition (IMTCE2014), Kuala Lumpur, 13~16 May 2014.
- [50] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N.R. Mat Nuri, *Optimized Nanolubricant for Friction Reduction*, Proceedings of 40<sup>th</sup> Leeds-Lyon Symposium on Tribology & Tribochemistry Forum 2013, Lyon, France, 4~6 September 2013.
- [51] **M.F. Abdollah**, N. Tamaldin, H. Amiruddin, M.M. Zamberi, M.R.M. Zin, S.E.M. Kamal, *Tribology-related researches at Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka (UTeM)*, Proceedings of Malaysia-Japan Tribology Meeting 2012, Kuala Lumpur, Malaysia, 27~28 August 2012.
- [52] N. Tamaldin, **M.F. Abdollah**, *Proposal for hybrid passive cooling system of batteries in electric vehicle*, Proceedings of The 3<sup>rd</sup> International Conference on Engineering and ICT 2012 (ICEI2012), Melaka, Malaysia, 4~6 April 2012.
- [53] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, N. Miyamoto, T. Tokoroyama, N. Umehara, *Deformation and wear transition map of DLC coating under cyclic impacts*, Proceedings of International Tribology Conference 2011, Hiroshima, Japan, 30 October~3 November 2011.
- [54] Y. Yamaguchi, **M.F.B. Abdollah**, T. Tokoroyama, N. Umehara, N. Inayoshi, T. Akao, N. Miyamoto, *Observation of cross-sectional images impacted DLC films*, Proceedings of JAST Conference 2011, Tokyo, Japan, 11~14 September 2011. (In Japanese).
- [55] Y. Yamaguchi, **M.F.B. Abdollah**, T. Tokoroyama, N. Umehara, N. Inayoshi, T. Akao, N. Miyamoto, *Impact wear mechanisms of DLC*, Proceedings of The 4th International Conference on Manufacturing, Machine Design and Tribology, Gamagori, Aichi, Japan, 24~27 April 2011.
- [56] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, N. Umehara and T. Tokoroyama, *Raman spectroscopy study of impacted DLC coatings*, Proceedings of The International Tribology Congress, ASIATRIB 2010 "Frontiers in tribology - knowledge & friendship", Perth, Western Australia, 5~9 December 2010.
- [57] **M.F.B. Abdollah**, Y. Yamaguchi, T. Akao, N. Inayoshi, T. Tokoroyama & N. Umehara, *The effect of maximum normal impact load, absorbed energy and contact impulse on the impact craters volume/depth of DLC coating under repetitive impacts*, Proceedings of JAST Tribology Conference 2010, Fukui, Japan, 14-17 September 2010, pp. 471-472.

- [58] **M.F.B. Abdollah** and N. Umehara, *Preliminary study of impact wears behavior under large impact cycles*, Proceedings of The 4<sup>th</sup> Nagoya University – UCLA International Symposium, Kona, Hawaii, 6-7 September 2009, p. 20.
- [59] M.A.Salim, **M.F. Abdollah**, F.R. Ramli and S.H.S.M. Fadzullah, *Integrated design and selection for weight reduction of a car side door impact beam*, Proceedings of 2<sup>nd</sup> International Conference and Workshops on Basic and Applied Sciences and Regional Annual Fundamental Science Seminar 2009, Johor Bahru, Johor, Malaysia, 2~4 June 2009.
- [60] **M.F. Abdollah**, F.R. Ramli, R. Hasan, R. Ismail and R. Mamat, *Design of an aluminum alloy side door impact beam for passenger cars*, Proceedings of International Conference on Mechanical and Manufacturing Engineering 2008, Johor Bahru, Johor, Malaysia, 21~23 May 2008.
- [61] M.N. Sudin, A.T. Din, **M.F. Abdollah** and S.A. Shamsudin, *Conceptual design of automotive bumper beam*, Proceedings of Conference on Design, Simulation, Product Development and Optimization (PRODUCT & DESIGN 2007), Batu Ferringhi, Penang, Malaysia, 10~11 December 2007.

**X. Keahlian Dalam Pertubuhan/Badan Profesional  
Membership in The Association/Professional Body**

- (a) Member, Materials Research Society, USA (Membership ID = 11050724): 2015 ~ to date  
 (b) Member, Society of Engineering Education Malaysia, MALAYSIA (Membership ID = P0267): 2015 ~ to date  
 (c) Member, Society of Tribologists and Lubrication Engineers, USA, (Membership ID = 60913) : 2014 ~ to date  
 (d) Member, Malaysian Tribology Society, MALAYSIA (Membership ID = L0213): 2011 ~ to date  
 (e) Graduate member, The Institution of Engineers, MALAYSIA (Membership ID = 34309): 2008 ~ to date  
 (f) Graduate member, Board of Engineers Malaysia, MALAYSIA (Membership ID = GE49335A) : 2006 ~ to date

**Informasi Tambahan  
Other Information**

**Working Experience / Administrative Positions**

Duration	Position
27/01/2016 – present	Associate Professor, UTeM
6/2012 – 26/01/2016	Senior Lecturer, UTeM
1/9/2005 – 6/2012	Lecturer, UTeM
2005 – 2005	Package Development Engineer, Vishay (M) Semiconductor
2004 – 2005	Tutor, UKM
17/11/2017 – present	Vice President, Malaysian Tribology Society (MYTRIBOS).
01/08/2016 – present	Deputy Dean (research and Postgraduate Studies), Faculty of Mechanical Engineering, UTeM.
01/08/2016 – present	Executive Committee, Society of Engineering Education Malaysia (SEEM).
17/11/2015 – 16/11/2017	Secretary, Malaysian Tribology Society (MYTRIBOS).
01/02/2016 – 31/07/2016	Coordinator, Centre for Advanced Research on Energy, UTeM.
19/08/2014 – 04/04/2016	Executive Committee, Society of Engineering Education Malaysia (SEEM).
01/11/2013 – 31/10/2015	Manager, Centre for Advanced Research on Energy, UTeM.
18/11/2013 – 17/11/2015	Vice Secretary, Malaysian Tribology Society (MYTRIBOS).
1/4/2012 – 31/10/2013	Head of Department (Diploma Studies), Faculty of Mechanical Engineering, UTeM.

### Graduated Postgraduate/Undergraduate Student

1. 2017: Ashafi'e Bin Mustafa, MSc. (Research) – Supervisor
2. 2017: Adli Zil Ikram Bin Abdullah, MSc. (Research) – Supervisor
3. 2017: Nur Saidatul Fatimah Binti Abdul Rashid, MEng. (Taught Course) – Supervisor
4. 2017: Fairuz Fazillah Binti Shuhimi, MSc. (Research) – Supervisor
5. 2016: Ahmed Qays Khudhair. MEng. (Mixed mode) – Supervisor
6. 2016: Noor Ayuma Binti Mat Tahir, MSc. (Research) – Supervisor
7. 2016: Muhammad Ilman Hakimi Chua Bin Abdullah, Ph.D – Supervisor
8. 2015: Khairul Amzar Bin Mohd Kassim, MEng. (Taught Course) – Supervisor
9. 2015: Mohd Muhyiddin Bin Mustafa, MEng. (Taught Course) – Co-supervisor
10. 2014: Mohd Hafidz Bin Zakaria, MSc. (Research) - Co-supervisor
11. 2005 – 2015: More than 50 undergraduate students - Supervisor

### Current Student Supervision

Student	Role (quantity)	Total
Ph.D	Supervisor (1); Co-supervisor (2)	3
MSc. (Research)	Supervisor (3); Co-supervisor (3)	6
B.Eng.	Supervisor (4)	4

### Lectures (Postgraduate course)

1. Project Management
2. Failure Mechanics
3. Research Project (Coordinator)
4. Master Project (Coordinator)

### Lectures (Undergraduate course)

1. Manufacturing Process
2. Tribology
3. Automotive Technology
4. Vehicle Structure Analysis
5. CES Edupack Software
6. Mechanic of Machines
7. Automotive Component Design
8. Materials Science
9. Experimental Methods
10. Engineering Graphics (AutoCAD, BrisCAD)
11. Automotive Laboratory

### Expertise Contributions

Expertise Contribution	Information Details
Thesis Examiner	<ol style="list-style-type: none"><li>1. <b>PhD. UTM</b> – Nurul Aini Binti Mohd Ahyan</li><li>2. <b>MSc. UTM</b> – Wan Mohamad Aiman Bin Wan Yahya</li><li>3. <b>MSc. UM</b> – Leang So Khuong</li><li>4. <b>MSc. UKM</b> – Salmi Binti Mohd Yunus @Abd Wahid</li><li>5. <b>MSc. UiTM</b> – Nor Syahirah Binti Mohamad</li><li>6. <b>MSc. UM</b> – Ali Shahir Shawkat</li><li>7. <b>MSc. UTeM</b> – Anisah Binti Abd Latiff</li><li>8. <b>MSc. UTeM</b> – Hikmah Binti Zainuddin</li><li>9. <b>MSc. UTeM</b> – Nurul Hidayah Binti Omar</li><li>10. <b>MSc. UTeM</b> – Mohammad Nazry Bin Rosley</li><li>11. <b>MSc. UTeM</b> – Nur Shakinah Binti Mohd Isa</li><li>12. <b>MSc. UTeM</b> – Mohd Syakir Bin Ahmad</li><li>13. <b>MSc. UTeM</b> – Abdurahman Dwijotomo</li></ol>
Viva Chair	<ol style="list-style-type: none"><li>1. <b>MSc. UTeM</b> – Muhammad Yusri Bin Md Yusuf</li><li>2. <b>MEng. UTeM</b> – Amer Adil Abdullah Kareem</li><li>3. <b>MSc. UTeM</b> – Fadzlin Binti Abd Khair</li><li>4. <b>MSc. UTeM</b> – Or Khai Hee</li></ol>

	5. <b>MSc. UTeM</b> – Loh Xiao Hui
Speaker	<ol style="list-style-type: none"> <li>1. <b>Keynote speaker – SAKURA Symposium 2017</b>, Nagoya, 12 September 2017.</li> <li>2. <b>Invited speaker – 2<sup>nd</sup> MYTRIBOS Symposium</b>, UTM, 8 October 2017.</li> <li>3. <b>Speaker – High Impact Journal Writing</b>, UTeM, 13 October 2016.</li> <li>4. <b>Speaker – How to Publish in High-Impact Journal</b>, UTeM, 14 May 2016.</li> <li>5. <b>Invited speaker - JAST Tribology Conference Spring 2014</b>, Tokyo, 19-21 May 2014.</li> <li>6. <b>Speaker/Demonstrator - Short course “Materials selection for engineering eco-design using CES”</b>, UTeM, 12 February 2014.</li> </ol>
Editor	<ol style="list-style-type: none"> <li>1. <b>Editor-in-Chief (2017-2019) - Jurnal Tribologi</b> (ISI; ISSN: 2289-7232). <a href="#">[Link]</a></li> <li>2. <b>Editor-in-Chief – Proceedings of SAKURA Symposium on Mechanical Science and Engineering 2017</b> (ISBN: 9789672145073), November 2017. <a href="#">[Link]</a></li> <li>3. <b>Editor-in-Chief – Proceedings of Mechanical Engineering Research Day 2017</b> (ISBN: 9789670257884), March 2017. <a href="#">[Link]</a></li> <li>4. <b>Editor – Proceedings of Proceedings of International Conference on Advanced Processes and Systems in Manufacturing (APSIM 2016)</b> (ISI-CPCI; ISBN: 9789671362518), October 2016. <a href="#">[Link]</a></li> <li>5. <b>Editor-in-Chief – Proceedings of Mechanical Engineering Research Day 2016</b> (ISI-CPCI; ISBN: 9789670257709), March 2016. <a href="#">[Link]</a></li> <li>6. <b>Editor-in-Chief – Proceedings of Malaysian International Tribology Conference 2015</b> (ISI-CPCI; ISBN: 9789671362501), November 2015. <a href="#">[Link]</a></li> <li>7. <b>Associate Editor-in-Chief (2014-2017) - Jurnal Tribologi</b> (ISI; ISSN: 2289-7232). <a href="#">[Link]</a></li> <li>8. <b>Editor – Proceedings of Mechanical Engineering Research Day 2015</b> (ISI-CPCI; ISBN: 9789670257518), March 2015. <a href="#">[Link]</a></li> <li>9. <b>Editor – Directory of Open Access Journals (DOAJ)</b>.</li> <li>10. <b>Editor – Proceedings of MUCET2014</b> (ISBN: 9789670257532), March 2015. <a href="#">[Link]</a></li> <li>11. <b>Editor – Buku Panduan Galas Datar (Handbook of Plain Bearings)</b> (ISBN: 9789831007884), January 2015.</li> <li>12. <b>Editor - CARE: Introduction to Researchers Profiles</b> (ISBN: 9789670257440), October 2014. <a href="#">[Link]</a></li> <li>13. <b>Guest Editor – Industrial Lubrication and Tribology</b> (ISI Q4; ISSN: 0036-8792): Special Issue on 50th Years of Tribology - Sustainable Manufacturing - expected to publish in April 2017.</li> <li>14. <b>Guest Editor - International Journal of Materials and Product Technology</b> (ISI Q4; ISSN: 0268-1900): Special Issue on Materials Design and Development in Tribology – Vol. 53, No. 3/4, 2016. <a href="#">[Link]</a></li> <li>15. <b>Chief Guest Editor – Journal of Materials Research</b> (ISI Q3; ISSN: 0884-2914): Special Issue on Recent Advances and Challenges in Carbon-Based Tribomaterials – Vol. 31, No. 13, 2016. <a href="#">[Link]</a></li> <li>16. <b>Guest Editor – Transactions of the IMF</b> (ISI Q3; ISSN: 0020-2967): Special Issue on Coatings for Tribology – Vol. 94, No. 4, 2016. <a href="#">[Link]</a></li> <li>17. <b>Guest Editor – Tribology - Materials, Surfaces &amp; Interfaces</b> (Scopus; ISSN: 1751-5831): Special Issue in MITC2015: Tribology for Sustainable Development – Vol. 10, No. 2, 2016. <a href="#">[Link]</a></li> <li>18. <b>Guest Editor – Composite Interfaces</b> (ISI Q3; ISSN: 0927-6440): Special Issue of MITC2015 – Vol. 23, No. 6, 2016. <a href="#">[Link]</a></li> <li>19. <b>Chief Guest Editor - Jurnal Teknologi (Sciences &amp; Engineering)</b> (Scopus; ISSN: 1877-7058): Special Issue on Recent Advances and Challenges in Energy Research for Greener Future Part 1 – Vol. 77, No. 21, 2015. <a href="#">[Link]</a></li> <li>20. <b>Guest Editor - Jurnal Teknologi (Sciences &amp; Engineering)</b> (Scopus; ISSN: 1877-7058): Special Issue on Recent Research in Tribology – Vol. 66, No. 3, 2014. <a href="#">[Link]</a></li> <li>21. <b>Editor - Procedia Engineering</b> (ISI-CPCI; ISSN: 1877-7058): Special Issue on Malaysian International Tribology Conference 2013 (MITC2013) – Vol. 68, 2013. <a href="#">[Link]</a></li> </ol>



Journal/Conference Paper Review	<ol style="list-style-type: none"> <li>1. International Journal of Mechanics and Materials in Design (ISI Q1; ISSN: 1569-1713)</li> <li>2. Tribology International (ISI Q1; ISSN: 0301-679X)</li> <li>3. Renewable &amp; Sustainable Energy Reviews (ISI Q1; ISSN: 1364-0321)</li> <li>4. Tribology Transactions (ISI Q2; ISSN: 1040-2004)</li> <li>5. Diamond and Related Materials (ISI Q2; ISSN: 0925-9635)</li> <li>6. Composite Interfaces (ISI Q3; ISSN: 0927-6440)</li> <li>7. Particulate Science and Technology (ISI Q3; ISSN: 0272-6351)</li> <li>8. Industrial Lubrication and Tribology (ISI Q4; ISSN: 0036-8792)</li> <li>9. Indian Journal of Engineering and Materials Sciences (ISI Q4; ISSN: 0971-4588)</li> <li>10. Journal of Palm Oil Research (ISI Q4; ISSN: 1511-2780)</li> <li>11. International Journal of Surface Science and Engineering (ISI Q4; ISSN: 1749-7868)</li> <li>12. Micro &amp; Nano Letters (ISI Q4)</li> <li>13. Jurnal Teknologi (Sciences &amp; Engineering) (ISI; ISSN: 1877-7058)</li> <li>14. Jurnal Tribologi (ISI; ISSN: 2289-7232)</li> <li>15. Tribology in Industry (Scopus; ISSN: 0354-8996)</li> <li>16. Engineering Science and Technology, an International Journal (Scopus; ISSN: 2215-0986)</li> <li>17. Tribology Online (Scopus; ISSN: 1881218X)</li> <li>18. Alexandria Engineering Journal (Scopus; ISSN: 1110-0168)</li> <li>19. Journal of Mechanical Engineering (Scopus; ISSN: 1823-5514)</li> <li>20. Materials Research Innovations (ISI; Online ISSN: 1433-075X): Special Issue on 2<sup>nd</sup> Global Conference on Materials Science and Engineering (CMSE 2013)</li> <li>21. Journal of Mechanical Engineering and Technology (MyCite Indexed; ISSN: 2180-1053).</li> <li>22. Research on Engineering Structures and Materials (ISSN: 2148-9807)</li> <li>23. International Conference on Design and Concurrent Engineering (iDECON 2016)</li> <li>24. International Conference on Advanced Processes &amp; Systems in Manufacturing (APSIM2016)</li> <li>25. Mechanical Engineering Research Day 2016 (MERD'16) (Google Scholar; ISBN: 9789670257709)</li> <li>26. Malaysian International Tribology Conference 2015 (MITC2015) (ISI-CPCI; ISBN: 9789671362501)</li> <li>27. Mechanical Engineering Research Day 2015 (MERD'15) (ISI-CPCI; ISBN: 978-9670257518)</li> <li>28. Applied Mechanics and Materials (Scopus Indexed; ISSN: 1660-9336): Special Issue on International Conference on Applications and Design in Mechanical Engineering 2015 (ICADME2015)</li> <li>29. Malaysian Technical Universities Conference on Engineering and Technology 2014 (MUCET2014)</li> <li>30. Applied Mechanics and Materials (Scopus Indexed; ISSN: 1660-9336): Special Issue on International Conference on Applied Physics and Engineering 2014 (ICAPE2014)</li> <li>31. Applied Mechanics and Materials (Scopus; ISSN: 1660-9336): Special Issue on International Conference on Applied Physics and Engineering 2014 (ICAPE2014)</li> <li>32. Procedia Engineering (ISI-CPCI; ISSN: 1877-7058): Special Issue on Malaysian International Tribology Conference 2013 (MITC2013)</li> <li>33. Applied Mechanics and Materials (Scopus; ISSN: 1660-9336): Special Issue on 3<sup>rd</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013)</li> <li>34. International Conference on Applied Physics and Engineering 2014 (ICAPE2014)</li> <li>35. The 4th International Conference on Production, Energy and Reliability (ICPER2014)</li> <li>36. 4<sup>th</sup> International Graduate Conference on Engineering, Sciences and Humanities (IGCESH2013)</li> </ol>
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**Organized Workshops, Meetings, Seminars and Conferences**

1. Secretariat – The 6<sup>th</sup> Asian Tribology Conference on Tribology (ASIATRIB2018): 17 – 20 September 2018, Kuching, Sarawak, Malaysia.
2. Co-Chairman – The 5<sup>th</sup> Mechanical Engineering Research Day 2018 (MERD'18): 3 May 2018, Melaka, Malaysia.
3. Technical Programme Committee: The 4<sup>th</sup> International Conference on Thin Film Technology and Applications (TFTA 2018): 13-15 January 2018, Sanya, China.
4. Chairman – MYTRIBOS Special International Symposium on Energy Aspects of Tribology for Sustainable Development: 16-19 October 2017, Melaka, Malaysia.
5. Co-Chairman – 5<sup>th</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2017): 16-19 October 2017, Melaka, Malaysia.
6. International Advisory Committee - International Conference on Applications and Design in Mechanical Engineering (ICADME 2017): 21 – 22 August 2017, Penang, Malaysia.
7. Scientific Committee - 2<sup>nd</sup> Asia Congress on Energy, Environment and Ecology Advances and Developments: 25 – 26 April 2017, Dubai, UAE.
8. Secretariat – Mechanical Engineering Research Day 2017 (MERD'17): 30 March 2017, Melaka, Malaysia.
9. Chairman – 2<sup>nd</sup> Postgraduate Research Symposium in Mechanical Engineering (PRiSME2017): 5 January 2017, Melaka, Malaysia.
10. Secretariat – Innovative Research and Industrial Dialogue 2016 (IRID'16): 20 December 2016, Melaka, Malaysia.
11. International Advisory Panel – International Conference on Advanced Processes & Systems in Manufacturing 2016 (APSIM2016): 28 – 30 August 2016, Putrajaya, Malaysia.
12. Secretariat – Mechanical Engineering Research Day 2016 (MERD'16): 31 March 2016, Melaka, Malaysia.
13. Scientific Committee - 7<sup>th</sup> International Conference on Tribology in Manufacturing Processes: 28 February - 2 March 2016, Phuket, Thailand.
14. Chairman – Malaysia-Japan International Symposium on Tribology Technology 2016 – Part 2: 5 February 2016, Melaka, Malaysia.
15. Chairman – Postgraduate Research Symposium in Mechanical Engineering 2016 (PRiSME2016): 5 January 2016, Melaka, Malaysia.
16. Chairman - Malaysian International Tribology Conference 2015 (MITC2015): 16 - 17 November 2015, Penang, Malaysia.
17. International Scientific Committee – TURKEYTRIB'15: 7 - 9 October 2015, Istanbul, Turkey.
18. International Advisory Board – International Tribology Conference 2015: 16 - 20 September 2015, Tokyo, Japan.
19. Secretariat - International Conference on Advances in Mechanical Engineering 2015 (ICAME2015): 26 – 27 August 2015, Bali, Indonesia.
20. Program Director – Mechanical Engineering Research Day 2015 (MERD'15): 31 March 2015, Melaka, Malaysia
21. Secretariat - 8<sup>th</sup> Malaysian Technical Universities Conference on Engineering and Technology (MUCET2014): 10 – 11 November 2014, Melaka, Malaysia.
22. Program Director – Workshop on Writing of High Impact Journal: 13 August 2014, Melaka, Malaysia.
23. Secretariat - Malaysian International Tribology Conference 2013 (MITC2013): 18 - 20 November 2013, Sabah, Malaysia.
24. Secretariat - 3<sup>rd</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013): 30 - 31 October 2013, Melaka, Malaysia.

**Public services**

1. Committee of “Program Khidmat Masyarakat Latihan Solidworks 2012 - MRSM Tun Ghafar Baba