



CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI *(Personal Details)*

Nama Penuh <i>(Full Name)</i>	CHE AZURAHANIM BINTI CHE ABDULLAH		Gelaran <i>(Title)</i> : ASSOCIATE PROFESSOR DR
Warganegara <i>(Citizenship)</i>	MALAYSIA	Bangsa <i>(Race)</i>	MALAY
Jawatan <i>(Designation)</i>	SENIOR LECTURER	Jantina <i>(Gender)</i>	FEMALE
Jabatan/Fakulti/ <i>(Department/ Faculty)</i>	DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE	Bidang Pengkhususan <i>(Field of Specialization)</i>	BIOPHYSICS, MATERIAL SCIENCE, NANOBIOTECHNOLOGY
Researcher ID	ORCID :0000-0002-9278-5284 SCOPUS ID :36570105200 Google Scholar: Che Azurahamanim Che Abdullah		

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, 43400 UPM, UNIVERSITI PUTRA MALAYSIA. Tel: 0389231184	DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, 43400 UPM, UNIVERSITI PUTRA MALAYSIA. Tel: 0397696675 Fax:	E-mail: azurahamanim@upm.edu.my / azurahamanim@gmail.com URL: 1) http://www.nanotedd.com/ 2) https://www.researchgate.net/pr ofile/Che_azurahamanim_Che_abd ullah H/P:0199715204

B. KELAYAKAN AKADEMIK *(Academic Qualification)*

Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
DOCTOR OF PHILOSOPHY (PhD)	UNIVERSITY OF SURREY, UK	2012	BIOPHYSICS
BACHELOR SCIENCE (HONS)	UNIVERSITI SAINS MALAYSIA	2006	MEDICAL PHYSICS
ALEVEL/MATRICULATION	KOLEJ MARA KULIM	2002	PHYSICS

C. KEMAHIRAN BAHASA (Language Proficiency)					
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English					✓
Bahasa Melayu					✓
Chinese	✓				
Lain-lain (other): Japanese, French	✓				

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific experience and Specialisation)				
Organization	Position	Start Date	End Date	Expertise
UNIVERSITY OF SURREY	VISITING RESEARCHER	30 JANUARY 2012	31 MAY 2012	BIOPHYSICS
KJIC KAZAKHSTAN	VISITING RESEARCHER	25 NOV 2012	8 DEC 2012	ESR

E. PEKERJAAN (Employment)				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
UPM	SENIOR LECTURER	PHYSICS	5 MAY 2012	NOW
UPM	TUTOR	PHYSICS	15 JUNE 2007	4 MAY 2012
AUCMS	JUNIOR LECTURER	PHYSICS	15 JUNE 2006	14 JUNE 2007

F. TUGAS-TUGAS PENTADBIRAN (Administrative Post)			
Jawatan / Designation	Peringkat/Level	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
FINAL YEAR PROJECT COORDINATOR	DDEPARTMENT	2013	2017
TIMETABLE COORDINATOR	DEPARTMENT	2016	2018

RESEARCH ASSOCIATE	ITMA RESEARCH INSTITUTE	2015	2021
FELLOW	COLLEGE 16	2018	2021

G. ANUGERAH DAN HADIAH (*Honours and Awards*)

No.	Awards/Recognitions	Awarding Body	Level		Year
			National	International	
	Global Scholar International Program DECOTA	Airlangga Global Engagement UNAIR		√ Indonesia	2020
	Women2Win: Global Asian Leaders Network Fellowship	IWB Selangor and Sasakawa Peace Foundation		√ Malaysia-Japan	2020
	Best Oral Presenter for 2 nd International Forum on Advances in Radiation Physics	Sunway University		√ Malaysia	2019
	Silver Medal Award at Putra Innocreative in Teaching and Learning (PICTL) Competition 2019	UPM CADE	√ Malaysia		2019
	Invited Speaker AFOBMCIS 2019	Director AFOBMCIS 2019	√ Malaysia		2019
	Judge Young Researcher Session AFOBMCIS 2019	Director AFOBMCIS 2019	√ Malaysia		2019

	Judge Putra Innocreative Competition in Teaching and Learning (PICTL) 2019	Director CADE/ Chairman PICTL 2019	√ Malaysia		2019
	Coordinator Sakura Science Club Alumni Meeting in Malaysia	Japan Science Technology Agency		√ Japan	2019
	ACP Lectureship Award ICCEOCA 14/ACP 2019	Japan Coordinator ICCEOCA 14 / Hokkaido University		√ Japan	2019
	Invited Speaker ICCEOCA 14/ACP 2019	ICCEOCA 14 Organizing Committee Hokkaido University		√ Japan	2019
	Global Talent Fellowship Program @ Universitas Airlangga	Kementerian Riset, Teknologi dan Pendidikan Tinggi		√ Indonesia	2019
	Committee Members for the 7th International Symposium on Applied Engineering and Sciences (SAES 2019), UPM-Kyushu Institute of Technology, Japan.	SAES2019 Organizing Committee	√ UPM	√ Japan	2019
	Invited Speaker Research Collaboration Seminar UPM-UMT	Universiti Malaysia Terengganu	√ Malaysia		2019
	ACS Malaysia Chapter Travel Grant Chemical Security Training Workshop 2019	Institut Kimia Malaysia and Universiti Sains Malaysia	√ Malaysia		2019

	Sakura Science Japan-Asia Youth Exchange Program 2019	Japan Science and Technology		√ Japan	2019
	Gold Medal INIIC Competition Green Nanotechnology for Green Nanomedicine	MNNF Network		√ Malaysia	2019
	Malaysia Ambassador for LIMSC Conference 2019.	Leiden University Medical Centre		√ Netherlands	2019
	Editorial Board Member the Open Medicinal Chemistry Journal and Pharmaceutical Nanotechnology Journal	Senior Editor Bentham Open		√ United Arab Emirates	2019
	International Journal of Electroactive Materials	International Advisory Board Member		√ Malaysia	2019
	22nd International Conference on Medicinal Chemistry, Drug Discovery & Drug Delivery 2019	Organizing Committee		√ Canada	2019
	Excellent Service Award 2018	Universiti Putra Malaysia	√ UPM		2018

	Invited by Paulo R. Martins, Coordinator Brazilian Research Network in Nanotechnology, Society and Environment, TV Interview Program NANOALERTA and NANOTECHNOLOGY INSIDEOUT - http://www.nanotecnologiadoavesso.org/	Brazilian Research Network		√ Brazil	2018
	Sakura Science Japan-Asia Youth Exchange Program 2018.	Japan Science and Technology		√ Japan	2018
	Reviewer, The 2018 Global Conference on Polymer and Composite Materials (PCM 2018)	Conference Secretary		√ Japan	2018
	Committee Members for the 6th International Symposium on Applied Engineering and Sciences (SAES2018), UPM-Kyushu Institute of Technology, Japan.	Chairperson, Jury and SAES2018 Organizing Committee	√ UPM	√ Japan	2018
	Excellent Service Award 2017	Universiti Putra Malaysia	√ UPM		2017
	Committee The 2017 International Conference on Advanced Environmental Engineering [ICAEE2017]	ICAEE2017 Organizing Committee		√ China	2017

	Committee Members for the 5th International Symposium on Applied Engineering and Sciences (SAES2017), UPM-Kyushu Institute of Technology, Japan.	Chairman and Organizing Committee SAES 2017	√ UPM	√ Japan	2017
	Co Editor for International Conference on Environmental Research and Public Health (ICERP2017)	ICERP2017 Organizing Committee		√ China	2017
	Malaysia Ambassador for LIMSC Conference 2017	Leiden University Medical Centre		√ Netherlands	2017
	Invited Speaker for 3rd Symposium of Young Researcher Kyushu Institute of Technology.	Kyutech, Japan		√ Japan	2017
	Invited Speaker for UPM-MAKNA Cancer Research Symposium.	IBS UPM	√ UPM		2017
	Travel Award Grantees, ACS Malaysia Chapter, CEC and Water Chemistry.	ACS Malaysia Chapter and UTM	√		2017
	Vice Chancellor Fellowship Award (Young Educator)	Universiti Putra Malaysia	√ UPM		2017
	Bronze Medal Award at Invention, Innovation & Design on E-Learning (IIDEL) Competition.	USIM, Malaysian e-Learning Council for Public Universities (MEIPTA), Malaysia Centre for e-		√ Malaysia	2017

		Learning, and Ministry of Higher Education.			
	Newton Researcher Links Workshop Grant- Early Career Researcher 2016.	British Council	√ USM	√ British Council UK	2016
	Technical reviewer for Journal Environmental Science and Pollution Research.	Editorial Manager and Editor Environment al Science and Pollution Research		√ France	2016
	Technical Program Committee, International Conference on Environmental Research and Public Health (ICERP2016)	ICERP2016 Organizing Committee		√ China	2016
	Technical reviewer for the 3rd Advanced Materials Conference (AMC2016)	Chairman and AMC2016 Organizing Committee	√ SIRIM		2016
	Technical reviewer in 2nd International Conference on Applied Physics and Engineering (ICAPE 2016)	ICAPE2016 Editor-In- Chief	√ USM		2016
	Committee Members for the 4th International Symposium on Applied Engineering and Sciences (SAES2016), UPM-Kyushu Institute of Technology, Japan.	Chairman and SAES 2016 Organizing Committee	√ UPM	√ Japan	2016

	Committee Member for WAMN 2016.	ITMA UPM	√ UPM		2016
	Committee 3rd International Conference on Environmental and Biological Sciences (iCEBS 2016)	Director and Conference Management iCEBS2016		√ Japan	2016
	Committee 2016 International Conference on Advanced Materials Science and Environmental Engineering (AMSEE2016)	AMSEE2016		√ Thailand	2016
	Excellent Service Award 2016	Universiti Putra Malaysia	√ UPM		2016
	Finalist Young Scientist Lush Prize Fund.	Lush Prize Fund		√ United Kingdom	2015
	Newton Researcher Links Workshop Grant- Early Career Researcher 2015.	British Council	√ UMT	√ British Council UK	2015
	Invited Speaker Women Symposium Academy for Young Researcher W3 WestWomanWind Women Researchers Network.	Symposium of International Symposium for Women Researchers on Advanced Science and Technology conjugated with Seminar for Young Researchers		√ Japan	2015

	Bronze Medal, Poster Competition, Cancer Awareness Carnival 2014	IBS UPM, MAKNA	√ UPM		2014
	Review Editor and Editorial Board Member for Frontiers in Carbon Based Materials.	Journal Manager, Frontiers Materials Editorial Office		√ Switzerland	2014-Now
	Speaker for PUTRACON 2014.	ITMA UPM	√ UPM		2014
	Journal Reviewer for Sains Malaysiana	Editor-In-Chief Sains Malaysiana.	√ UKM		2013-Now
	Nobel Endeavour Programme	Universiti Kebangsaan Malaysia	√ UKM		2013
	Best Poster Award FSC 2012	Universiti Putra Malaysia	√ UPM		2012
	Best Poster Award NANOCON 2011	NANOCON 2011 TANGER Ltd.		√ Czech Republic	2011
	ICBN Travel Award	Society for Biological Engineering (SBE), IBN A Star Singapore		√ Singapore	2010

H. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

Journal	1) Lau, G. E., Abdullah, C. A. C., Ghazali, M. S. M., & Ibrahim, M. S. C. (2020). Synergism of Zinc Oxide Nano-powder with Active Compound from
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	<p>Turmeric and Lemongrass as Microbial Inhibitor. Walailak Journal of Science and Technology (WJST).</p> <p>2) Yusoff, N.M., Abdullah, C.A.C., Hadi, M.A., Ng, E.K., Lee, H.K., Abidin, N.Z., Rosli, N.S. and Mahdi, M.A. (2020). Low threshold Q-switched fiber laser incorporating titanium dioxide saturable absorber from waste material. Optik, p.164998.</p> <p>3) Lee, X. J., Lim, H. N., Gowthaman, N. S. K., Rahman, M. B. A., Abdullah, C. A. C., & Muthoosamy, K. (2020). In-situ surface functionalization of superparamagnetic reduced graphene oxide-Fe₃O₄ nanocomposite via Ganoderma lucidum extract for targeted cancer therapy application. Applied Surface Science, 512, 145738.</p> <p>4) Faiz, M. A., Azurahaman, C. C., Raba'ah, S. A., & Ruzniza, M. Z. (2020). Low cost and green approach in the reduction of graphene oxide (GO) using palm oil leaves extract for potential in industrial applications. Results in Physics, 16, 102954.</p> <p>5) Faiz, M. A., Azurahaman, C. C., Yazid, Y., Suriani, A. B., & Ain, M. S. N. (2020). Preparation and characterization of graphene oxide from tea waste and its photocatalytic application of TiO₂/graphene nanocomposite. Materials Research Express.</p> <p>6) Lemine, O.M., Alanazi, A., Albert, E.L. et al. γ-Fe₂O₃/Gd₂O₃-chitosan magnetic nanocomposite for hyperthermia application: structural, magnetic, heating efficiency and cytotoxicity studies. Appl. Phys. A 126, 471 (2020). https://doi.org/10.1007/s00339-020-03649-5.</p> <p>7) Mohd-Zahid, M. H., Mohamud, R., Abdullah, C. A. C., Lim, J., Alem, H., Hanaffi, W. N. W., & Iskandar, Z. A. (2020). Colorectal cancer stem cells: a review of targeted drug delivery by gold nanoparticles. RSC Advances, 10(2), 973-985.</p> <p>8) Asey, M. N., Esa, N. M., & Abdullah, C. A. C. (2019). Synthesis and Characterization of Magnetic Nanoparticles (MNP) and MNP-Chitosan Composites. Malaysian Journal of Science Health & Technology, 4(Special).</p> <p>9) Shaifuddin, M. A. F. M., Abdullah, C. A. C., Ribut, S. H., Rosli, N. S., & Zawawi, R. M. (2019). Preparations, Characterizations and Comparative Study on Electrochemical Performance of ZnO/SWNT and TiO₂/SWNT Nanocomposites. Malaysian Journal of Science Health & Technology, 4(Special).</p>
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	<p>10) Nawang, R., Hussein, M. Z., Matori, K. A., Abdullah, C. A. C., & Hashim, M. (2019). Physicochemical properties of hydroxyapatite/montmorillonite nanocomposite prepared by powder sintering. <i>Results in Physics</i>, 15, 102540.</p> <p>11) Ajma'in, F., Yusoff, M. Z. M., Yahya, M. S., Zainie, I. S., & Abdullah, C. A. C. (2019). Effect of nitric acid concentration on the optical and surface morphology of zinc oxide (ZnO) thin films. <i>Materials Research Express</i>.</p> <p>12) Husin, S. A. S., Muhammad, F. D., Abdullah, C. A. C., Ribut, S. H., Zulkifli, M. Z., & Mahdi, M. A. (2019). Zinc-oxide nanoparticle-based saturable absorber deposited by simple evaporation technique for Q-switched fiber laser. <i>Chinese Physics B</i>, 28(8), 084207.</p> <p>13) Ribut, S. H., Abdullah, C. A. C., & Yusoff, M. Z. M. (2019). Investigations of structural and optical properties of zinc oxide thin films growth on various substrates. <i>Results in Physics</i>, 13, 102146.</p> <p>14) Ibrahim, M. H., Abdullah, C. A. C., & Izad, A. A. (2019). Growth, Photosynthesis and Quality of Water Spinach (<i>Ipomoea aquatica</i>) as Influenced by Magnetic Nanoparticles (MNP) Application. <i>Annual Research & Review in Biology</i>, 1-15.</p> <p>15) Zainuren, N. F., Ibrahim, M. H., Abdullah, C. A. C., & Najihah, T. S. (2019). Growth, Carbon Assimilation and Quality of Kesum (<i>Persicaria minor</i>) as Exposed to Zinc Oxide Nanoparticles. <i>Annual Research & Review in Biology</i>, 1-15.</p> <p>16) Ridza, P. N. I. M., Yusoff, M. Z. M., Zainie, I. S., Azurahaman, C., & Abdullah, C. (2019). Effect of Hydrogen Peroxide Concentration on The Optical Properties, Morphology and Surface Topography of Zinc Oxide Thin Films. <i>Int. J. Electroactive Mater</i>, 7, 38-45.</p> <p>17) Abdullah, C. A. C., Razak, D. F. A., Yunus, M. B. M., Zaki, M., & Yusoff, M. (2019). Structural and Optical Properties of N-Type and P-Type Porous Silicon Produced at Different Etching Time. <i>Int. J. Electroactive Mater</i>, 7, 28-37.</p> <p>18) Yusop, M. A. M, Abdullah, C. A. C. (2019). Advantages and applications of sustainable and green synthesis titania: A review. <i>European Academic Research</i>, ISSN 2286-4822, 7 (2), 2327-2339.</p> <p>19) Faiz, M. S. A, Abdullah, C. A. C. (2019). Graphene Oxide Derived from Biomass and Their Potential Photocatalytic Application. <i>European Academic Research</i>, ISSN 2286-4822, 7 (1), 262-285.</p>
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	<p>20) Khiri, M.Z.A., Matori, K.A., Zaid, M.H.M., Abdullah, C.A.C., Zainuddin, N., Alibe, I.M., Rahman, N.A.A. and Wahab, S.A.A. (2019). The effect of the pH values and sintering temperature on the physical, structural and mechanical properties of nano hydroxyapatite derived from ark clam shells (<i>Anadara Granarosa</i>) via the wet chemical precipitate method. <i>Ceramics-Silikáty</i>, 63(2), 194-203.</p> <p>21) Jing, H. X., Abdullah, C. A. C., Yusoff, M. Z. M., Mahyuddin, A., & Hassan, Z. (2019). Structural and optical properties of AlN/GaN and AlN/AlGaIn/GaN thin films on silicon substrate prepared by plasma assisted molecular beam epitaxy (MBE). <i>Results in Physics</i>, 12, 1177-1181.</p> <p>22) Khiri, M.Z.A., Matori, K.A., Zaid, M.H.M., Abdullah, C.A.C., Zainuddin, N., Alibe, I.M., Rahman, N.A.A., Wahab, S.A.A., Azman, A.Z.K. and Effendy, N., 2019. Crystallization behavior of low-cost biphasic hydroxyapatite/β-tricalcium phosphate ceramic at high sintering temperatures derived from high potential calcium waste sources. <i>Results in Physics</i>, 12, 638-644.</p> <p>23) Albert, E. L., Sajiman, M. B., & Abdullah, C. A. C. (2019). Incorporation of magnetic nanoparticle to graphene oxide via simple emulsion method and their cytotoxicity. <i>Applied Nanoscience</i>, 9(1), 43-48.</p> <p>24) Ribut, S. H., Abdullah, C. A. C., Mustafa, M., Yusoff, M. Z. M., & Azman, S. N. A. (2018). Influence of pH variations on zinc oxide nanoparticles and their antibacterial activity. <i>Materials Research Express</i>, 6(2), 025016.</p> <p>25) Albert, E. L., Abdullah, C. A. C., & Shiroshaki, Y. (2018). Synthesis and characterization of graphene oxide functionalized with magnetic nanoparticle via simple emulsion method. <i>Results in Physics</i>, 11, 944-950.</p> <p>26) Khiri, M.Z.A., Matori, K.A., Zaid, M.H.M., Abdullah, C.A.C., Zainuddin, N., Alibe, I.M., Rahman, N.A.A., Wahab, S.A.A., Azman, A.Z.K. and Effendy, N. Crystallization behavior of low-cost biphasic hydroxyapatite/beta-tricalcium phosphate ceramic at high sintering temperatures derived from high potential calcium waste sources. <i>Results in Physics</i>, 12 (2018):638-644.</p> <p>27) Rosli, N. S., Abdullah, C. A. C., & Hazan, R. (2018). Synthesis, characterization and investigation of photocatalytic activity of nano-titania from natural ilmenite with graphite for cigarette smoke degradation. <i>Results in Physics</i>, 11, 72-78.</p>
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	<p>28) Ribut, S. H., Abdullah, C. A. C., & Yusoff, M. Z. M. Review on Green and Chemical Fabrications of Zinc Oxide Nanoparticles: Synthesis and Its Biological Activity. <i>International Journal of Technical Research and Applications</i> e-ISSN: 2320-8163, 6 (3), 55-64.</p> <p>29) Albert, E. L., Abdullah, C. A. C., & Shiroshaki, Y. (2018). Drug Release and Kinetic Study of Tamoxifen Citrate conjugated with Magnetite Nanoparticle for Drug Delivery Application. <i>International Journal of Applied Engineering Research</i>, 13 (7), 5360-5369.</p> <p>30) Izad, A. I., Ibrahim, M. H., Abdullah, C. A. C., & Zain, N. A. M. (2018). Growth, leaf gas exchange and secondary metabolites of <i>Orthosiphon stamineus</i> as affected by multiwall carbon nanotubes application. <i>Annual Research & Review in Biology</i>, 1-13.</p> <p>31) Baqer, A.A., Matori, K.A., Al-Hada, N.M., Shaari, A.H., Kamari, H.M., Saion, E., Chyi, J.L.Y. and Abdullah, C.A.C., 2018. Synthesis and characterization of binary (CuO) 0.6 (CeO₂) 0.4 nanoparticles via a simple heat treatment method. <i>Results in Physics</i>, 9, 471-478.</p> <p>32) Ramlan, N.F., Sata, N.S.A.M., Hassan, S.N., Bakar, N.A., Ahmad, S., Zulkifli, S.Z., Abdullah, C.A.C. and Ibrahim, W.N.W., 2017. Time dependent effect of chronic embryonic exposure to ethanol on zebrafish: Morphology, biochemical and anxiety alterations. <i>Behavioural Brain Research</i>, 332, 40-49.</p> <p>33) Alias, D., Yunus, R., Chong, G. H., & Abdullah, C. A. C. (2017). Single step encapsulation process of tamoxifen in biodegradable polymer using supercritical anti-solvent (SAS) process. <i>Powder technology</i>, 309, 89-94.</p> <p>34) Abdullah, C. A. C., Mohammad, A., & Wahab, Z. A. Development of Mobile Learning Application for Electricity and Magnetism Physics on Android Platform. <i>CARNIVAL ON e-LEARNING (IUCEL)</i> 2017, 314.</p> <p>35) Al-Hada, N. M., Kamari, H. M., Abdullah, C. A. C., Saion, E., Shaari, A. H., Talib, Z. A., & Matori, K. A. (2017). Down-top nanofabrication of binary (CdO) x (ZnO) 1-x nanoparticles and their antibacterial activity. <i>International Journal of Nanomedicine</i>, 12, 8309.</p> <p>36) Lee, J. J., Yazan, L. S., & Abdullah, C. A. C. (2017). A review on current nanomaterials and their drug conjugate for targeted breast cancer treatment. <i>International Journal of Nanomedicine</i>, 12, 2373.</p> <p>37) Salem, A., Saion, E., Al-Hada, N. M., Kamari, H. M., Shaari, A. H., Abdullah,</p>
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	<p>C. A. C., & Radiman, S. (2017). Synthesis and characterization of CdSe nanoparticles via thermal treatment technique. <i>Results in physics</i>, 7, 1556-1562.</p> <p>38) Bakar, N.A., Sata, N.S.A.M., Ramlan, N.F., Ibrahim, W.N.W., Zulkifli, S.Z., Abdullah, C.A.C., Ahmad, S. and Amal, M.N.A., (2017). Evaluation of the neurotoxic effects of chronic embryonic exposure with inorganic mercury on motor and anxiety-like responses in zebrafish (<i>Danio rerio</i>) larvae. <i>Neurotoxicology and Teratology</i>, 59, 53-61.</p> <p>39) Khiri, M. Z. A., Matori, K. A., Zainuddin, N., Abdullah, C. A. C., Alassan, Z. N., Baharuddin, N. F., & Zaid, M. H. M. (2016). The usability of ark clam shell (<i>Anadara granosa</i>) as calcium precursor to produce hydroxyapatite nanoparticle via wet chemical precipitate method in various sintering temperature. <i>SpringerPlus</i>, 5(1), 1206.</p> <p>40) Umaru, D., A. Zakaria, C. A. C. Abdullah, I. I. Lakin, and Y. Abdollahi. "Effect of Sintering Temperature on V2O5 Doped ZnO-Bi2O3-Sb2O3-MnO2 Based Varistor Ceramics: Electrical and microstructure properties, <i>Digest Journal of Nanomaterials & Biostructures (DJNB)</i> 2016, 11(3), 707 – 714.</p> <p>41) Eevon, C., Halimah, M. K., Azmi, Z., & Azurahaman, C. (2016). Elastic properties of TeO2-B2O3—ZnO-Gd2O3 glasses using non-destructive ultrasonic technique. <i>Chalcogenide Letters</i>, 13(6), 281-289.</p> <p>42) Eevon, C., Halimah, M. K., Zakaria, A., Azurahaman, C. A. C., Azlan, M. N., & Faznny, M. F. (2016). Linear and nonlinear optical properties of Gd3+ doped zinc borotellurite glasses for all-optical switching applications. <i>Results in Physics</i>, 6, 761-766.</p> <p>43) Azuraida, A., Halimah, M. K., Sidek, A. A., Azurahaman, C. A. C., Iskandar, S. M., Ishak, M., & Nurazlin, A. (2015). Comparative studies of bismuth and barium boro-tellurite glass system: Structural and optical properties. <i>Chalcogenide Letters</i>, 12(10), 497-503.</p> <p>44) Azuraida, A., Halimah, M. K., Azurahaman, C. A. C., & Ishak, M. (2015). Gamma irradiation effect on structural and optical properties of bismuth-boro-tellurite glasses. <i>Advanced Materials Research</i>, 1107, 426-431.</p> <p>45) Che Abdullah, C.A., Lewis Azad, C., Ovalle-Robles, R., Fang, S., Lima, M.D., Lepró, X., Collins, S., Baughman, R.H., Dalton, A.B., Plant, N.J. and Sear, R.P., 2014. Primary liver cells cultured on carbon nanotube substrates for liver tissue engineering and drug discovery applications. <i>ACS Applied Materials & Interfaces</i>, 6(13), 10373-10380.</p>
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	<p>46) Abdullah, C.A.C., Asanithi, P., Brunner, E.W., Jurewicz, I., Bo, C., Azad, C.L., Ovalle-Robles, R., Fang, S., Lima, M.D., Lepro, X. and Collins, S., 2011. Aligned, isotropic and patterned carbon nanotube substrates that control the growth and alignment of Chinese hamster ovary cells. <i>Nanotechnology</i>, 22(20), 205102.</p> <p>47) Liu, D., Abdullah, C. A. C., Sear, R. P., & Keddie, J. L. (2010). Cell adhesion on nanopatterned fibronectin substrates. <i>Soft Matter</i>, 6(21), 5408-5416.</p>
<i>Books/Monographs</i>	
<i>Chapter in book</i>	<p>1) Abdullah, C. A. C., & Albert, E. L. (2019). Carbon Nanotubes as Biological Transporters and Tissue-Engineering Scaffolds. In <i>Synthesis, Technology and Applications of Carbon Nanomaterials</i> (pp. 135-156). Elsevier.</p> <p>2) Lee, X. J., Lim, H. N., Rahman, M. B. A., Abdullah, C. A. C., & Muthoosamy, K. (2019). Functionalization of Graphene for Nanodelivery of Drugs. In <i>Synthesis, Technology and Applications of Carbon Nanomaterials</i> (pp. 157-176). Elsevier.</p>
<i>Proceedings</i>	<p><u>Oral Presentations</u></p> <p>1) Development of multifunctional nanomaterials and their delivery efficacy as cancer cells extermination, ICCEOCA14, Hokkaido, Japan, 25-30 September 2019.</p> <p>2) Encapsulation Tamoxifen Citrate-Superparamagnetic Iron (III) Oxide using poly (DL, lactide-co-glycolide) acid, NANOMITE Symposium, Putrajaya, Malaysia, 20-23 August 2019.</p> <p>3) Encapsulation and Delivery Efficiency of Tamoxifen Citrate-Superparamagnetic Iron (III) Oxide using poly (DL, lactide-co-glycolide) acid, MSPP Symposium, Putrajaya, Malaysia, National, 15-16 July 2019.</p> <p>4) Preparation of Hydroxyapatite from Nacre Layer as Biomaterial for Dental Application, AFOBMCIS 2018, Pullman Kuching, Sarawak, Malaysia, International, 18-22 August 2018.</p> <p>5) Structural and Optical Properties of ZnO thin films prepared by Molecular Beam Epitaxy, Colloquium Science Technology (KOSIST), USIM Nilai, Negeri Sembilan, Malaysia, 23 September 2018.</p> <p>6) Preparation of Hydroxyapatite from Marine Waste for biomedical</p>

	<p>application: A review. Author, 6th Symposium on Applied Engineering and Sciences (SAES) 2018, INTERNATIONAL, 15-16 December 2018.</p> <p>7) Tailoring nanomaterials-based scaffolds for liver tissue engineering, Author, IUMRS ICAM 2017, MRS JAPAN, INTERNATIONAL, YOSHIDA CAMPUS KYOTO JAPAN, 28 August -1 September 2017.</p> <p>8) Investigation of Structural and Optical Zinc Oxide Nanoparticles (ZnONPs) prepared using sol gel method, Author, 5th Symposium on Applied Engineering and Sciences (SAES) 2017, INTERNATIONAL, 14-15 November 2017.</p> <p>9) "Enhancement of siRNA Delivery System System for Gene Therapy in Lung Cancer Cell", The NanoMITe Annual Symposium (NMAS 2017) UPM, Malaysia. 14-15 November 2017</p> <p>10) Tailoring nanomaterials-based scaffolds for liver tissue engineering, Author, Fundamental Science Congress (FSC), Universiti Putra Malaysia, 21-22 November 2017</p> <p>11) Drug release of Tamoxifen Citrate loaded Superparamagnetic poly (D, L-lactide-co-glycolide) -iron oxide nanoparticles for Drug Delivery, Author, 5th Symposium on Applied Engineering and Sciences (SAES) 2017, INTERNATIONAL, 14-15 November 2017.</p> <p>12) Tamoxifen Citrate loaded Superparamagnetic poly (D, L-lactide-co-glycolide) -iron oxide nanoparticles for Drug Delivery, Author, ASIA International Multidisciplinary Conference (AIMC 2017), UTM Skudai, INTERNATIONAL, 1-2 May 2017.</p> <p>13) Method to reduce Physics' misconceptions using Mobile Learning Application Development for Electricity and Magnetism, Author, ASIA International Multidisciplinary Conference (AIMC 2017), UTM Skudai, INTERNATIONAL, 1-2 May 2017.</p> <p>14) The investigation of heavy metals in selected cosmetic products in Malaysia using X-ray Fluorescence (XRF), Inductively Coupled Plasma Mass Spectrometer (ICP-MS) and Laser induced breakdown spectroscopy (LIBS), Author, ASIA International Multidisciplinary Conference (AIMC 2017), UTM Skudai, INTERNATIONAL, 1-2 May 2017.</p> <p>15) Superparamagnetic Iron (III) Oxide functionalized with Tamoxifen</p>
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	<p>Citrate by using poly (DL, lactide-co-glycolide) acid, Co-Author, The Ceramic Society of Japan, JAPAN CERAMIC SOCIETY 56TH BASIC SCIENCE MEETING, OKAYAMA, INTERNATIONAL, 12-13 January 2017.</p> <p>16) Characterization of Physical Properties of an Ancient Nanostructured Biomaterials Retrieve Using EDTA, Author, FUNDAMENTAL SCIENCE CONGRESS 2016, UNIVERSITY, FACULTY OF SCIENCE UPM, 9-10 August 2016.</p> <p>17) Anisotropic and Isotropic Substrates that Control the Growth and Function of Liver Cells, Author, INTERNATIONAL CONFERENCE OF BIOSCIENCE AND MEDICAL ENGINEERING, INTERNATIONAL, UTM FBME, SKUDAI, JOHOR MALAYSIA, 10-11 November 2016.</p> <p>18) International Collaboration for Developing Future-Oriented Appropriate Technologies for a Sustainable Environment and Society, Author, 4th INTERNATIONAL SYMPOSIUM ON APPLIED ENGINEERING AND SCIENCES (SAES 2016), KYUTECH, INTERNATIONAL, 17-18 December 2016.</p> <p>19) Anisotropic and Isotropic Substrates that Control the Growth and Function of Liver Cells, Author, 4th INTERNATIONAL SYMPOSIUM ON APPLIED ENGINEERING AND SCIENCES (SAES 2016), KYUTECH, INTERNATIONAL, 17-18 December 2016.</p> <p>20) Enhancement of siRNA Delivery System for Gene Therapy in Lung Cancer Cell, Co-Author, INTERNATIONAL CONFERENCE OF BIOSCIENCE AND MEDICAL ENGINEERING, INTERNATIONAL, UTM FBME, SKUDAI, JOHOR MALAYSIA, 10-11 November 2016.</p> <p>21) Synthesis of Graphene-Based Magnetite Nanocomposite for Lung Cancer Treatment, Co-Author, INTERNATIONAL CONFERENCE OF BIOSCIENCE AND MEDICAL ENGINEERING, INTERNATIONAL, UTM FBME, SKUDAI, JOHOR MALAYSIA, 10-11 November 2016.</p> <p>22) The preliminary study of mechanical properties of super elastic NiTi Based Shape Memory Alloy, Co-Author, FUNDAMENTAL SCIENCE CONGRESS 2016, UNIVERSITY, FACULTY OF SCIENCE UPM, 9-10 August 2016.</p> <p>23) Synthesis and characterization of functional foam glass ceramics from waste, Co-Author, FUNDAMENTAL SCIENCE CONGRESS 2016,</p>
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	<p>UNIVERSITY, FACULTY OF SCIENCE UPM, 9-10 August 2016.</p> <p>24) Preparation and Characterization of Magnetic Nanoparticles as an Anticancer Drug Delivery Transporter, Co-Author, FUNDAMENTAL SCIENCE CONGRESS 2016, UNIVERSITY, FACULTY OF SCIENCE UPM, 9-10 August 2016.</p> <p>25) Superparamagnetic Iron (III) Oxide functionalized with Tamoxifen Citrate by using poly (DL, lactide-co-glycolide) acid, Co-Author, 4th INTERNATIONAL SYMPOSIUM ON APPLIED ENGINEERING AND SCIENCES (SAES 2016), KYUTECH, INTERNATIONAL, 17-18 December 2016.</p> <p>26) Enhancement of siRNA Delivery System for Gene Therapy in Lung Cancer Cell, Co-Author, 4th INTERNATIONAL SYMPOSIUM ON APPLIED ENGINEERING AND SCIENCES (SAES 2016), KYUTECH, INTERNATIONAL, 17-18 December 2016.</p> <p>27) Structural and Optical Properties of Zinc Oxide Thin Films Growth on Various Substrates, Co-Author, 4th INTERNATIONAL SYMPOSIUM ON APPLIED ENGINEERING AND SCIENCES (SAES 2016), KYUTECH, INTERNATIONAL, 1718 December 2016.</p> <p>28) Synthesis and Characterization of Tamoxifen using Supercritical Anti Solvent (SAS) for Controlled Drug Delivery, Co-Author, WAMN WORKSHOP ITMA UPM, NATIONAL, EVERLY HOTEL PUTRAJAYA, 24-25 August 2016.</p> <p>29) Behavioral alteration in the male adult zebrafish (Danio rerio) after exposure to raw multi-walled carbon nanotube (MWCNTs), Co-Author, Malaysia International Biology Symposium 2016 (I-SIMBIOMAS 2016), Putrajaya International Convention Centre (PICC), Malaysia 26&27 October 2016.</p> <p>30) Effect of Different Sonication Time on the Dispersion Rate and Toxicity of Raw and Purified MWCNTs, Co-Author, FUNDAMENTAL SCIENCE CONGRESS 2016, UNIVERSITY, FACULTY OF SCIENCE UPM, 9-10 August 2016.</p> <p>31) Synthesis and Characterization of functionalized superparamagnetic nanoparticles using poly (dl, lactide-co-glycolide) acid, Co-Author, The Ceramic Society of Japan, DIVISION OF BIOCERAMICS MEETING 2016,</p>
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	<p>OSAKA, INTERNATIONAL, 1-2 December 2016.</p> <p>32) Nanostructured Materials in Tissue Engineering and Drug Delivery, 1st International Symposium for Women Researcher on Advanced Science and Technology, Kyushu Institute of Technology; Tobata Campus, Japan, 10-14 July, 2015</p> <p>33) Nanostructured Materials: Design and Tests for Tissue Engineering and Drug Delivery, Putra Colloquium on Nanomedicine (PUTRACON), ITMA UPM, April 2014</p> <p>34) Liver Cells Cultured on Multiwalled Nanotube Sheets for Tissue Engineering and Drug Development Application, Soft Matter Group of the Department of Physics Postgraduate Seminar, University of Surrey, September 2011</p> <p>35) Human Hepatoma and Rat Hepatocytes Cells Cultured on Multiwalled Nanotube Sheets and Yarns: Modulation of Cell Morphology and Function, 3rd International NANOCON 2011 Conference, Brno, Republic of Czech, September 2011</p> <p>36) Primary Rat Hepatocytes Cultured on Multiwalled Nanotube Sheets and Yarns: Tissue Engineering and Drug Development Application, 7th NanoBio Europe Conference, University of Cork, Republic of Ireland, June 2011</p> <p>37) 2D and 3D Cell Patterning on Nanostructured Substrates Based on Carbon Nanotubes and Their Application in Tissue Engineering, Soft Matter group of the Department of Physics Postgraduate Seminar, University of Surrey, July 2010</p> <p>38) The Uptake and Intracellular Dynamics of Peptide Functionalized Single-Wall Carbon Nanotubes, ICONT 09 Conference, Langkawi Island, Malaysia, Dec 2009</p> <p>39) Protein Nanopatterns on Self Assembled Block Copolymer Templates and Their Application as Substrate for Cell Culture, Soft Matter group of the Department of Physics Postgraduate Seminar, University of Surrey, August 2009</p> <p>40) Carbon Nanotubes Interaction with CHO Cells: Internalization and Distribution, Soft Matter group of the Department of Physics Postgraduate Seminar, University of Surrey, July 2009</p>
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	<p>41) Carbon Nanotubes Interaction with CHO Cells: Internalization and Distribution, Nanotechnology and Renewable Energy Workshop, Zakopane, Poland, July 2009</p> <p><u>Poster Presentation</u></p> <ol style="list-style-type: none"> 1) "Elementary Particle Physics via LV Approach", PICTL 2019, 16-17 October 2019 2) "Nanostructured materials in tissue engineering and drug discovery", The 3rd Seminar for Young Researcher, Kyutech, Wakamatsu Campus Kyutech, 6 February 2017 3) "Nanomaterials-Mediated siRNA Delivery System for Gene Therapy in Lung Cancer Cell", PUTRA Cancer Research Symposium, UPM MAKNA, Institute of Biosciences, Universiti Putra Malaysia, 5-6 September 2017 4) "Nanotitania for photocatalyst application", Fundamental Science Congress (FSC), Universiti Putra Malaysia, 21-22 November 2017 5) "Superparamagnetic Iron Oxide and Quantum Dots for Biomedical Applications", 5th Symposium on Applied Engineering and Sciences (SAES2017), International, Universiti Putra Malaysia, 14-15 November 2017 6) "Zinc Oxide based Passively Q-switched Erbium Doped Fiber laser using Simple Deposition Technique", Symposium on Advanced Materials and Nanotechnology (SAMN), 2017, Hotel Bangi-Putrajaya, Malaysia, 18-17 July 2017 7) "Design and Development of Mobile Learning Application for Electricity and Magnetism Physics on Android Platform", SOUTH EAST ASIAN HIGHER EDUCATION SUMMIT (SEAHES), 2017, UPM, 25-26 October 2017. 8) "Development of Mobile Learning Application for Electricity and Magnetism Physics on Android Platform", International e-Learning Carnival 2017, Universiti Sains Islam Malaysia (USIM) Bandar Baru Nilai, Negeri Sembilan, Malaysia, 26-27 September 2017 9) "Different Collagen Processing and Extraction Impact Structural Properties of the Collagen Produced" Asian Pacific Aquaculture 2017 -
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	<p>Transforming for Market Needs, World Aquaculture Society, Kuala Lumpur Malaysia, 24-27 July 2017</p> <p>10) "Physical Characterization of Natural Biomaterial for Tissue Engineering Application", Fundamental Science Congress (FSC), Universiti Putra Malaysia, 10-11 August 2016</p> <p>11) "Characterization of the Physical Properties of the Ancient Nanostructured Biomaterials (Nacre Layer) Retrieved using EDTA", Asian Congress on Biotechnology, Istana Hotel, Kuala Lumpur, 15-19 Nov 2015</p> <p>12) "Carbon Nanomaterials as Drug Transporter for Cancer Therapy", The OCPA8 International Conference on Physics Education and Frontier Physics, Nanyang Technological University Singapore, 23-27 June 2014</p> <p>13) The Uptake and Intracellular Dynamics Functionalized Carbon Nanotubes with Anticancer Drugs of Interest ", Cancer Awareness Carnival, May 2014</p> <p>14) "Functionalized Carbon Nanotubes in Biomedical", Fundamental Science Congress (FSC) 2012, Universiti Putra Malaysia, July 2012</p> <p>15) "The Uptake and Intracellular Dynamics of Peptide Functionalized Single-Wall Carbon Nanotubes ", 7th NanoBio Europe Conference, University of Cork, Republic of Ireland, June 2011</p> <p>16) "Cell Patterning on Nanostructured Isotropic and Anisotropic Carbon Nanotubes Substrates", Post Graduate Research Conference 2010, University of Surrey, UK, September 23-24th, 2010</p> <p>17) "Cell Adhesion on Nanopatterned Fibronectin Substrates", Post Graduate Research Conference 2010, University of Surrey, UK, September 23-24, 2010</p> <p>18) "2-D Cell Patterning and Alignment on Nanostructured Isotropic and Anisotropic Carbon Nanotubes Substrates", Third International NanoBio Conference, ETH Zurich, August 24-27, 2010</p> <p>19) "Cell Patterning on Nanostructured Isotropic and Anisotropic Carbon Nanotubes Substrates", 5th SBE International Conference on Bioengineering and Nanotechnology (ICBN 2010), Biopolis, Singapore, August 1-4, 2010</p>
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	<p>20) "Cell Adhesion on Nanopatterned Fibronectin Substrates", Festival of Research, Faculty of Health and Medical Sciences, University of Surrey, UK, July 6th, 2010</p> <p>21) "Quantified SWNT Internalization and Accumulation in CHO cells", European Materials Research Society (EMRS) Spring Meeting, Strasbourg, France, June 2009</p> <p><u>Participation</u></p> <p>1) The NanoMITe Annual Symposium (NMAS 2016) UTM KL, Malaysia. 28th Sept 2016</p> <p>2) National Heart Annual Meeting- Clinical Research Malaysia, KL, Malaysia, 13th April 2019</p>
<p><i>Recognitions</i> (Type of Service, Role, Level, Year)</p>	<p><u>2019</u></p> <p>1) Invited Speaker for AFOBMCIS 2019, Everly Hotel, Putrajaya, Malaysia, 20-23 October 2019.</p> <p>2) Judge Young Researcher Session AFOBMCIS 2019 Everly Hotel, Putrajaya, Malaysia, 20-23 October 2019.</p> <p>3) Judge Putra Innocreative Competition in Teaching and Learning (PICTL) 2019, UPM, 16-17 October 2019.</p> <p>4) Coordinator Sakura Science Club Alumni Meeting in Malaysia, Park Royal KL, 10 October 2019.</p> <p>5) Ambassador for Leiden International BioMedical Student Conference, International, 2019.</p> <p>6) Ambassador for Warsaw International Medical Conference, International, 2019.</p> <p>7) Invited Speaker for ICCEOCA 14/ ACP 2019. Hokkaido, Japan, 25-30 September 2019.</p> <p>8) Invited Speaker on Sharing Session International Linkages during Academic Visit and Fellowship, Airlangga Universiti, Surabaya, Indonesia, 1-15 September 2019.</p>

	<p>9) Invited Speaker for Grant Proposal and International Linkages, Universiti Malaysia Terengganu, July 2019.</p> <p>10) Committee for Symposium of Applied Engineering and Sciences (SAES) 2019.</p> <p>11) Nominated for Anugerah Akademik Negara 13, National, 2019.</p> <p>12) Nominated and finalist for MSPP Award, National, 15-16 July 2019.</p> <p>13) Invited Speaker for UPM-MAKNA 3D Cell Culture Cancer Research Symposium, National, 2019.</p> <p>14) Invited speaker international Grant Proposal and International Linkages, University Putra Malaysia, April 2019.</p> <p>15) Invited speaker international Grant Proposal and International Linkages, UITM Penang, February 2019.</p> <p><u>2018</u></p> <p>16) Invited Speaker for Chemical Engineering Symposium National Chung Cheng University, Chiayi, Taiwan, 6-13 November 2018.</p> <p>17) Invited Speaker for 5th Symposium of Young Researcher Kyushu Institute of Technology, Japan, International, 3rd February 2018.</p> <p>18) Invited Speaker for Grant Proposal and International Linkages, University Putra Malaysia, April 2018.</p> <p>19) UPM Service Excellence Award (APC), National, 2017.</p> <p>20) Ambassador for Leiden International BioMedical Student Conference, International, 2018/19.</p> <p>21) Nominated by for National Young Scientist Award, National, 2018.</p> <p>22) Nominated for Nikkei ASEAN Science and Technology Award, International, 2018.</p> <p>23) Nominated as mentor for AFNC Mentee 2018.</p> <p>24) Committee for Symposium of Applied Engineering and Sciences</p>
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	<p>(SAES) 2018.</p> <p><u>2017</u></p> <p>25)Invited Speaker for 3rd Symposium of Young Researcher Kyushu Institute of Technology, Japan, International, 6th February 2017.</p> <p>26)Winner for The Vice-Chancellor's Fellowship Award under the Akademia Putra Special Award (Young Educator), National, 2017.</p> <p>27)Speaker for The World Congress of Biomedical Engineering-2017 (WCBME-2017), China, Invited Speaker, International, 2017.</p> <p>28)Invited Speaker for UPM-MAKNA Cancer Research Symposium, National, 2017.</p> <p>29)Invited Speaker for the Southeast Asian Higher Education Summit, International, 2017.</p> <p>30)Travel Award Grantees, ACS Malaysia Chapter, CEC and Water Chemistry, National, 20-22th November 2017.</p> <p>31)UPM Service Excellence Award (APC), National, 2016.</p> <p>32)Bronze Medal Award at Invention, Innovation & Design on E-Learning (IIDEL) Competition, International, 2017.</p> <p>33)Ambassador for Leiden International BioMedical Student Conference, International, 2017.</p> <p>34)Nominated by for National Young Scientist Award, National, 2017.</p> <p>35)Nominated for ASEAN Science and Technology Award 10th ASEAN STI WEEK (ASTIW-10), International, 2017.</p> <p>36) Nominated for Award for Encouragement of Research in IUMRS-ICAM, International, 2017.</p> <p>37)Manuscript and Research Progress Evaluator for UKM Colloquium, National, 2017.</p> <p>38)Invited Speaker (Talk on Nanotechnology) for Olympiad Nanotechnology Malaysia Competition, National, 2017.</p> <p>39)Panel for Quiz Olympiad Nanotechnology Malaysia Competition</p>
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	<p>(Nanobiotechnology and Nanomedicine), National, 2017.</p> <p>40)Journal Reviewer of American Institute of Physics (AIP) Conference Proceedings, Reviewer, International, 2017.</p> <p>41)Board Member for Frontiers in Carbon Based Materials, Editorial Board Member, International, 2014-to date.</p> <p>42)Secretary for Symposium of Applied Engineering and Sciences (SAES) 2017.</p> <p>43)Committee member for NanoMite Annual Symposium 2017.</p> <p>44)Emcee for SAES and NMAS 2017.</p> <p>45)Technical reviewer for Journal Environmental Science and Pollution Research, Reviewer, International, 2017.</p> <p>46)Committee Membership for CLINICAL NANOMEDICINE, Committee Members, International, 2012- to date.</p> <p>47)Technical committee, the 2nd Annual International Conference on Environmental Research and Public Health, Technical Program Committee, International, 2017.</p> <p>48)Committee Members for the 2nd International Conference on Environmental Research and Public Health (ICERP2017), Technical Program Committee, International, 2017.</p> <p>49)Departmental/ Faculty Timetable Coordinator, Department/ Faculty, 2016-2018.</p> <p>50)Final Year Project, Coordinator, Department, 2016-2018.</p> <p>51)Journal Reviewer for ACS Journal, Reviewer, International, 2014-to date.</p> <p>52)Journal Reviewer for Sains Malaysiana, Reviewer, National, 2013-to date.</p> <p><u>2016]</u></p> <p>53)Speaker for Workshop session: International Collaboration for Developing Future-Oriented Appropriate Technologies for a Sustainable Environment and Society, 4th International</p>
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	<p>Symposium on Applied Engineering and Sciences (SAES2016), Kyushu Institute of Technology, Japan, Invited Speaker, International, December 2016.</p> <p>54)Speaker for 2nd and 3rd Symposium of Young Researcher Kyushu Institute of Technology, Japan, Invited Speaker, International, February 2016 and 2017.</p> <p>55)Speaker for The World Congress of Biomedical Engineering-2017 (WCBME2017), China, Invited Speaker, International, 2017.</p> <p>56)Technical reviewer for the 3rd Advanced Materials Conference (AMC2016), Reviewer, International, 2016.</p> <p>57)Technical reviewer in 2nd International Conference on Applied Physics and Engineering (ICAPE 2016) Reviewer, International, 2016.</p> <p>58)Technical reviewer for Journal Environmental Science and Pollution Research, Reviewer, International, 2016.</p> <p>59)Technical committee, the 2nd Annual International Conference on Environmental Research and Public Health, Technical Program Committee, International, 2016.</p> <p>60)Committee Members for the 2016 International Conference on Environmental Research and Public Health (ICERP2016), Technical Program Committee, International, 2016.</p> <p>61)Committee Members for the 4th International Symposium on Applied Engineering and Sciences (SAES2016), Kyushu Institute of Technology, Japan, International, 2016.</p> <p>62)Committee Member for WAMN 2016, Emcee, National, 2016.</p> <p>63)Committee 3rd International Conference on Environmental and Biological Sciences (iCEBS 2016), Technical Program Committee, International, 2016.</p> <p>64)Departmental/ Faculty Timetable Coordinator, Department/ Faculty, 2016-2018.</p> <p>65)Final Year Project, Coordinator, Department, 2016-2018.</p>
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	<p>66)Conference Committee for FUNDAMENTAL SCIENCE CONGRESS, Scientific Committee, UPM SERDANG, 2016.</p> <p>67)Committee Membership for CLINICAL NANOMEDICINE, Committee Members, International, 2012- to date.</p> <p>68)Board Member for Frontiers in Carbon Based Materials, Editorial Board Member, International, 2014-to date.</p> <p>69)Journal Reviewer for ACS Journal, Reviewer, International, 2014-to date.</p> <p>70)Journal Reviewer for Sains Malaysiana, Reviewer, National, 2013-to date.</p> <p>71)Jury for MYCYS and APCYS 2015, Jury, National and International, 2015.</p> <p>72)SEED MONEY GRANT WORKSHOP, Expert Reference, SINGAPORE ETH, 2016</p> <p>73)INOVASI, Expert Reference, SEKOLAH MENENGAH AGAMA MAAHAD HAMIDIAH KAJANG, 2016 to date.</p> <p>74)DASAR STEM KPM KPT MOSTI, Expert Reference, National, 2016.</p> <p>75)SHARING ABOUT YOUNG SCIENTIST, Expert Reference PERMATA PINTAR NEGARA, National, 2016.</p> <p><u>2015</u></p> <p>76)THE SCIENCE OF FIRE, Expert Reference, RTM 2015.</p> <p>77)NANOMATERIALS, Conference Reviewer, ICSSST 2015.</p> <p>78)Committee Membership for CLINICAL NANOMEDICINE, Committee Members, International, 2012- to date.</p> <p>79)Board Member for Frontiers in Carbon Based Materials, Editorial Board Member, International, 2014-to date.</p> <p>80)Journal Reviewer for ACS Journal, Reviewer, International, 2014-to date.</p> <p>81)Journal Reviewer for Sains Malaysiana, Reviewer, National, 2013-to date.</p>
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	82))Jury for MYCYS and APCYS 2015, Jury, National and International, 2015.
<i>Memberships</i>	Clinical Nanomedicine Society European Society for Nanomedicine Individual Life Member Malaysia Local Chapter of the Controlled Release Society Member Malaysian Society of Pharmacology and Physiology Member Asian Federation of Biotechnology Persatuan Pegawai Akademik UPM IACSIT Membership IEEE Learning Technology IICBEE Tissue Engineering Malaysia TESMA Malaysia Genetic Society Malaysia Medical Physics Society Institute of Physics NLP Certification Aura Insani Certification Psychonumerology Certification Cognitive Behaviour Therapy Certification
<i>Other publications</i>	
<i>Computer software</i>	Graphpad Prism Software, iRPai 2.0 Software, Origin Software, Response Surface Methodology Software

I. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>)					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
<i>IPM 9406000</i>	Developing CNT Films as substrates for Liver (Huh7 cells) Tissue Engineering and Drug Delivery: The Role of Nanoscale Topography	Principal Investigator	2013-2015	UPM RM 50,000	Completed
<i>IPB 9412801</i>	Development of Multifunctional Nano Capsules and	Principal Investigator	2013-2016	UPM RM 110,000	Completed

	Monitoring of their Delivery and Efficacy for Cancer-Cells Extermination				
<i>FRGS 5524949</i>	Critical assessment of toxicity profiling, cellular internalization, and bioaccumulation of engineered graphene <i>in vitro</i> for advancement in biomedical research.	Principal Investigator	2016-2019	UPM RM 118,600	Ongoing
<i>IPS 9618800</i>	Nanomaterials-mediated siRNA Delivery for Gene Therapy in Lung Cancer.	Principal Investigator	2018-2020	UPM RM 24,900	Ongoing
<i>GIPP 9323671</i>	Design and Development of Interactive m-LEARNING applications in electricity and magnetism for use in blended learning teaching activities.	Principal Investigator	2016-2017	UPM RM 10,000	Completed
<i>MSTF Toray 6300895</i>	Structural, Photocatalytic and Antibacterial Activity of Low Cost and Biogenic Zinc Oxide Nanoparticles (ZnONPs)	Principal Investigator	Dec 2017- Dec 2018	UPM RM 20,000	Completed
<i>GIPP 9323601</i>	Mobile Apps humanize radiation physics and environmental biophysics learning process	Principal Investigator	2019-2020	UPM RM 10,000	Ongoing
<i>FRGS 5524942</i>	Green synthesis of reduced graphene oxide/silver nanofluids using microwave heating technique and evaluation of their thermal properties.	Co-Investigator	2016-2018	UPM RM 79,000	Ongoing

<i>IPS 9464000</i>	Synthesis and characterization of functional foam glass ceramics from waste.	Co-Investigator	2016-2018	UPM RM 20, 000	Ongoing
<i>IPS 9472600</i>	Development of Fluoromagnetic Drug Delivery Anticancer Agent Based on Ruthenium (II) Complex and Iron Oxide Nanoparticles.	Co-Investigator	2017-2019	UPM RM 20, 000	Ongoing
<i>USM RUI 2017-HM20</i>	Elucidating of the mechanism of 5-Fluorouracil loaded gold nanoparticles conjugated with CD133 antibody targeting survivin-positive colorectal cancer stem cells.	Co-Investigator	2018-2020	USM RM 99,428	Ongoing
<i>FRGS 5540110</i>	Bioavailability, toxicity and chemopreventive efficacy of chitosan-based nanoformulation of tea polyphenols for colorectal cancer therapy	Co-Investigator	2019-2021	UPM RM 192,000	Ongoing
<i>HRGS 6150169 K123</i>	Evaluation of Anthocyanin-rich standardized extract of Hibiscus sabdariffa L. (Roselle) loaded niosomes for potential of antihypercholesterol and cardioprotective	Co-Investigator	2019-2021	UPM RM 350,000	Ongoing

	effect				
<i>FRGS-VET-1/2019/STGO3/UPM</i>	Fundamental studies on protective of enhanced immune cells (against Orf virus infection) that are specifically primed with nanoparticles loaded Orf virus subunit antigens	Co-Investigator	2019-2021	UPM RM 147,800	Ongoing
<i>IPM</i>	Development of CT phantom for optimization of CT scanner and CT dose	Co-Investigator	2018-2020	UPM RM 60,000	Ongoing

J. PROJEK/KHIDMAT KOMUNITI TERDAHULU (<i>Past Community Service/ Research Project</i>)			
No.	Aktiviti	Komuniti Yang Terlibat	Tempoh
1.	Terapi Pembelajaran Berfokus untuk Kanak-Kanak Cerebral Palsy: Ekspresi Dirimu	Khidmat Pengembangan dan Komuniti a) Kanak-Kanak Cerebral Palsy b) Ibubapa Kanak-Kanak Cerebral Palsy.	01/03/2018 - 01/03/2019

2.	<p>Program Pemindahan Ilmu UPM dan Markas Kecemerlangan PPSR 2018 : Sentuhan Ilmu, Inspirasi dan Transmisi Komuniti Bersaintifik ITMA UPM.</p> <p>Turut diselitkan adalah program anak angkat di mana para pelajar dari UPM dijadikan anak angkat kepada keluarga angkat yang terdiri dari warga komuniti Kampung Tok Lawit, Terengganu.</p>	<p>Khidmat Pengembangan dan Komuniti</p> <p>a) Pelajar Sekolah Rendah Kebangsaan Kuala Ping, Kampung Tok Lawit, Terengganu.</p> <p>b) Penduduk Kampung Tok Lawit, Terengganu.</p>	<p>30 Mac 2018 sehingga 1 April 2018</p> <p>*Projek berterusan (*Continuous project)</p>
3.	Grateful and Giving 2017 (2G2017)	<p>Khidmat Komuniti</p> <p>a) Kanak-Kanak Cerebral Palsy.</p> <p>b) Ibubapa Kanak-Kanak Cerebral Palsy.</p> <p>c) Belia</p> <p>d) Komuniti Setempat</p> <p>e) Pelajar yang mengikuti kursus PHY 4504 dan PHY 4502</p>	14/10/2017
4.	The Kuala Lumpur Engineering Science Fair 2017	<p>Khidmat Pengembangan dan Komuniti</p> <p>a) Belia</p> <p>b) Komuniti Setempat</p> <p>c) Pendidikan Kanak-Kanak</p>	3/11/2017-5/11/2017
5.	Training of Trainers Camp for Future Nobel Laurates	<p>Khidmat Pengembangan dan Komuniti</p> <p>a) Guru-guru MRSM</p>	07/09/2015 - 09/09/2015
6.	Nobel Laurates Outreach Camp Scientist of Tomorrow 2016	<p>Khidmat Pengembangan dan Komuniti</p> <p>a) Pelajar-pelajar MRSM</p>	09/08/2016 - 12/08/2016

7.	UPM STEM	Khidmat Pengembangan dan Komuniti a) Komuniti Setempat b) Pendidikan Kanak-Kanak	02/01/2015 - 30/12/2016
8.	Nobel Laurates Outreach Camp Scientis of Tomorrow 2016	Khidmat Pengembangan dan Komuniti a) Pelajar-pelajar MRSM	17/08/2015 - 20/08/2015
9.	Program Mobiliti ke Jepun 2017 From Lab to Classroom: A Science Research Programme (FLTC)	Pembangunan Modal Insan a) Pelajar-pelajar prasiswazah dan siswazah	01/02/2017 - 14/02/2017
10.	Program Road to Excellence	Pembangunan Modal Insan b) Pelajar-pelajar prasiswazah dan ahli MTM Kolej 5.	29/11/2017 - 29/11/2017
11.	The Kuala Lumpur Engineering Science Fair 2016	Khidmat Pengembangan dan Komuniti/Pembangunan Modal Insan a) Belia b) Komuniti Setempat Pendidikan Kanak-Kanak	04/11/2016 - 06/11/2016
12.	Money-Life Balance Programme (Financial literacy)	Latihan /Kursus/Ceramah oleh Industri kepada UPM/ Pembangunan Modal Insan a) Belia	17/8/2016- 18/8/2016
13.	Program Global I-Lead STEM Camp UPM, PIBG SBPI Selandar, Asasi sains dan Fakulti Sains	Khidmat Pengembangan dan Komuniti a) Pelajar-pelajar MRSM	18/12/2017 - 22/12/2017
14.	Program "Sakura Science Japan-Asian Youth Exchange" Feb 2018	Pembangunan Modal Insan a) Belia	31/1/2018- 11/2/2018

15.	Program "Sakura Science Japan-Asian Youth Exchange" July 2018	Pembangunan Modal Insan a) Belia	31/6/2018-11/7/2018 *Projek berterusan 3 tahun (* Continuous project for 3 years) 2018-2021
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K. PENGALAMAN MENGAJAR (*Teaching Experience*)

I have taught following courses (20 - 100 students per class):

Semester	Code and Course Name	Credit
1st Sem 2012/2013	PHY 3601 – Quantum Mechanics PHY4995 – Advance Lab	(3+0) (0+3)
2nd Sem 2012/2013	PHY4995 – Advance Lab PHY4999B – Final Year Project	(0+3) (0+3)
1st Sem 2013/2014	PHY3601 – Quantum Mechanics PHY4999A – Final Year Project PHY4999B – Final Year Project	(3+0) (0+3) (0+3)
2nd Sem 2013/2014	PHY4999A – Final Year Project PHY4999B – Final Year Project	(0+3) (0+3)
1st Sem 2014/2015	PHY3103 – Physics 1 PHY4999B – Final Year Project	(3+1) (0+3)
2nd Sem 2014/2015	PHY3103 – Physic 1 PHY4999A – Final Year Project P001 – Pengetahuan Fizik 1 Kursus Peralihan Pembantu Makmal	(3+1) (0+3) (2+1)
1st Sem 2015/2016	PHY4502 –Radiation Physics and Radiobiology PHY4999A – Final Year Project PHY4999B – Final Year Project P002 – Pengetahuan Fizik 2 Kursus Peralihan Pembantu Makmal	(3+0) (0+3) (0+3) (3+1)
2nd Sem 2015/2016	PHY4502 – Radiation Physics and Radiobiology PHY4999A – Final Year Project P003 – Pengetahuan Fizik 1 Kursus Peralihan Pembantu Makmal	(3+0) (0+3) (3+1)

1st Sem 2016/2017	PHY4502 – Radiation Physics and Radiobiology PHY4999A – Final Year Project	(3+0) (0+3)
2nd Sem 2016/2017	PHY4502 – Radiation Physics and Radiobiology PHY4999A – Final Year Project PHY4999B – Final Year Project	(3+0) (0+3) (0+3)
1st Sem 2017/2018	PHY4502 – Radiation Physics and Radiobiology PHY4504– Nuclear Physics	(3+0) (3+0)
2nd Sem 2017/2018	PHY4502 – Radiation Physics and Radiobiology PHY5501 – Applied Radiation Methodology	(3+0) (3+0)
1st Sem 2018/2019	PHY4502 – Radiation Physics and Radiobiology PHY4504– Nuclear Physics	(3+0) (3+0)
2nd Sem 2018/2019	PHY4502 – Radiation Physics and Radiobiology PHY5501 – Applied Radiation Methodology	(3+0) (3+0)
1st Sem 2019/2020	PHY4502 – Radiation Physics and Radiobiology PHY5901–Research Methodology	(3+0) (3+0)

L. PENYELIAAN (*Supervision*)

Lists of students under supervision:

Program Level	Name of Students and Title of Thesis/Project	Main Supervisor/ Co Supervisor	Status (Completed/Ongoing)

PhD	Emmellie Laura Albert (Cytotoxicity study of magnetic graphene oxide)	Main supervisor	Ongoing
PhD	Chua Ee Von (Optical and elastic properties of gadolinium zinc borotellurite glasses)	Co-Supervisor	Completed
PhD	Azuraida Amat (Optical and radiation shielding properties of (Bi ₂ O ₃ – BaO – B ₂ O ₃ – TeO ₂) glass doped with Er/Ce)	Co-Supervisor	Completed
PhD	Dalila Alias (Encapsulation of tamoxifen using supercritical anti solvent)	Co-Supervisor	Ongoing
PhD	Mohammad Zulhasif Ahmad Khiri (Bioactivity study of hydroxyapatite from ark sheel)	Co-Supervisor	Ongoing
PhD	Azreen Aida (Palm based nanoemulsion aerosol containing docetaxel/curcumin)	Co-Supervisor	Ongoing
PhD	Auni Hamimi Idris(Using Iron oxide coated fish oil)	Co-Supervisor	Ongoing
PhD	Rosnah Nawang (Physico-chemical properties of hydroxyapatite/montmorillonite nanocomposite prepared by powder-sintering technique)	Co-Supervisor	Ongoing
PhD	Krishnan Nair A/L Balakrishnan (Characterization Of Small Interfering Rnas And Crispr/Cas9 Effects On In Vitro Replication And Gene Expression Of Malaysian	Co-Supervisor	Ongoing

	Isolate Cytomegalovirus)		
Masters with thesis	Emmellie Laura Albert (Colloidal stability of MNP-TAM in cell culture medium)	Main supervisor	Completed
Masters with thesis	Siti Huzaimah Ribut (Structural and optical properties of porous zinc oxide thin films grown on silicon substrates)	Main supervisor	Completed
Masters with thesis	Nur Khalida Rahayu Zainon (Enhancement of siRNA delivery using nanomaterial for gene therapy in lung cancer)	Main supervisor	Ongoing
Masters with thesis	Natrah Shafiqah Rosli (The study of Titanium Dioxide doped with Magnetic Nanoparticles)	Main supervisor	Ongoing
Masters with thesis	Muhammad Amir Faiz Mohd Shaifuddin (Metal free catalyst Carbon nanotube)	Main supervisor	Ongoing
Masters with thesis	Monica Namizie anak Asei (The effect of different ratio of chitosan to magnetite nanoparticle)	Main supervisor	Ongoing
Masters with thesis	Lau Gee Een (Synergism of Zinc Oxide Nano-Powder (ZnONPs) with Active Compound from Turmeric and Lemongrass as Microbial Inhibitor)	Main supervisor	Ongoing
Masters with thesis	Siti Nadiah Zulkifli (Multifunctional Magnetic Nanoparticles with Different Surface Coating for Biomedical Applications)	Main supervisor	Ongoing

Masters with thesis	Nur Nadiah Zainal Abiddin (In house fabrication of vertically aligned multi-walled carbon nanotubes and its functionalization to attach tamoxifen)	Main supervisor	Ongoing
Masters with thesis	Mohammad Zulhasif Ahmad Khiri (Characterization of hydroxyapatite synthesized from ark clam shell)	Co-Supervisor	Completed
Master with thesis	Dahiru Umaru (Applied Optics-varistor)	Co-Supervisor	Completed
Masters with thesis	Eleen Diana (Development of MSN-based ionic liquids for diagnosis of lung cancer)	Co-Supervisor	Completed
Masters with thesis	Joanna Ling Lee (Nanomaterials as nanodrug vehicles)	Co-Supervisor	Ongoing
Masters with thesis	Lee Xin Jie (Synthesis of core-shell magnetite-gold nanoparticles for lung cancer treatment)	Co-Supervisor	Ongoing
Masters with thesis	Siti Shafinaz Zulkefly (Dielectric properties of erbium and holmium doped zinc borotellurite glass system)	Co-Supervisor	Ongoing
Masters with thesis	Muhammad Abdulazeez Nareeman (Synthesis and characterization of graphene oxide Cu doped ZnO as photocatalysis for degradation of environment pollutants under visible light irradiation)	Co-Supervisor	Ongoing

Masters with thesis	Mohammad Shahrizan bin Samsu @ Shamsuddin (Analyses of attenuation coefficient of hematite concrete)	Co-Supervisor	Ongoing
Bachelor	Siti Noorfazleena Ahmad Azman (Investigation of structural, optical properties of Zinc Oxide nanoparticle)	Main supervisor	Completed
Bachelor	Mohd Napizie Mat Napiah (UV-Vis characterization of polymer blend)	Main Supervisor	Completed
Bachelor	Muhammad Firdaus Kamarazaman (Preparation and characterization of polymer blends)	Main Supervisor	Completed
Bachelor	Muhammad Syazwan Ezzaq Mahalim (Dielectric of polymer blend)	Main Supervisor	Completed
Bachelor	Mohd Luqman Mokhtar (Preparation and characterization of seashells (nacre) for tissue engineering)	Main Supervisor	Completed
Bachelor	Emmellie Laura Albert (Colloidal stability of MNP-TAM in cell culture medium)	Main Supervisor	Completed
Bachelor	Zarina Salehuddin (Colloidal stability of carbon nanotubes in culture media (CM) and phosphate buffer saline solution (PBS))	Main Supervisor	Completed
Bachelor	Noratiqah Johar (Characterization of marine based collagen scaffolds for tissue engineering)	Main Supervisor	Completed

Bachelor	Luqman Hakim Ali Hussein (Diffusion kinetics of hydroxyapatite from waste eggshells)	Main Supervisor	Completed
Bachelor	Ho Xin Jing (Structural and optical properties of aluminium nitride grown on silicon substrate by plasma assisted molecular beam epitaxy (MBE))	Main Supervisor	Completed
Bachelor	Noor Wahida Latif (Determination of selected heavy metals in cosmetics)	Main Supervisor	Completed
Bachelor	Nur Shuhada Zaihari (Characterization of natural biomaterial (nacre) from <i>modiolus philiphinarum</i> shells)	Main Supervisor	Completed
Bachelor	Nurul Adni Nik Hassan (The study of materials composition and toxicology of cosmetic products)	Main Supervisor	Completed
Bachelor	Siti Huzaimah Ribut (Structural and optical properties of zinc oxide thin films grown on various substrates)	Main Supervisor	Completed
Bachelor	Siti Norzulfikaini Mat Yaacob (The colloidal stability of magnetic nanoparticles-tamoxifen)	Main Supervisor	Completed
Bachelor	Siti Nur Asyira Farhana Ali (Composition, ultrastructural, and and bioactivity studies of marine biomaterial from the chiton <i>acanthopleura gemmata</i> sp)	Main Supervisor	Completed
Bachelor	Natrah Shafiqah Rosli (Nano-titania for photocatalyst)	Main supervisor	Completed

	application)		
Bachelor	Diana Fazirra Abdul Razak (Structural and optical properties of porous silicon dioxide)	Main supervisor	Completed
Bachelor	Mohd Eszarul Fahmi Esaa (Pure Phase Hydroxyapatite (HAp) Synthesized from Nacre Layer for Dental Application)	Main supervisor	Completed
Bachelor	Muhammad Bilal Sajiman (The study of graphene oxide-iron oxide)	Main supervisor	Completed
Bachelor	Khairul Zaim Bin Tumeran (bioactivity study of hydroxyapatite from nacre layer)	Main supervisor	Completed
Bachelor	Monica Namizie anak Asei (The effect of different ratio of chitosan to magnetite nanoparticle)	Main supervisor	Completed
Bachelor	Nur Naida emylia azman (Characterization of porous zinc oxide grown on silica substrate)	Main supervisor	Completed
Bachelor	Muhammad Azri Muhammad yusof (The study of natural biomaterial chiton shell)	Main supervisor	Completed
Bachelor	Siti Zafirah Abdul Rashid (Structural and Optical Properties of Zinc Oxide Thin Films at Various Temperature)	Main supervisor	Completed
Bachelor	Nurizaty Azmina Binti Aminnuddin (Effect of Magnetite Nanoparticles and Quantum Dots on germination of Mung Bean seedlings)	Main supervisor	Completed
Bachelor	Shasha Ainaa binti Zulyazan (Synthesis and Characterization of Titanium Dioxide doped with	Main supervisor	Completed

	Magnetic Nanoparticles)		
Bachelor	Athir Aiman Sahar (Heat treatment of Dolomite)	Main supervisor	Completed
Bachelor	Nurfarhanah Abd Wahab (Preparation of ZnO varistor)	Co-Supervisor	Completed

M. PERUNDINGAN (Consultancy)				
<i>Nama / Name</i>	<i>Projek/ Project</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>	<i>Status</i>
GLORENZE	Formulation	2017	2019	Ongoing
MALAYSIAN NUCLEAR AGENCY	Nanotitania synthesis from natural Ilmenite for photocatalyst application	2017	2019	Ongoing

N. AKTIVITI KO-KURIKULUM (Co-curricular activities)		
<i>Keahlian/Membership @ Aktiviti Sosial/ Social Activity</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Clinical Nanomedicine Society (Life member)	2014	-
European Society for Nanomedicine Individual Life Member	2014	-
Malaysia Local Chapter of the Controlled Release Society Member	2019	To Date
Malaysian Society of Pharmacology and Physiology Member	2019	To Date
Asian Federation of Biotechnology Ordinary Member	2015	To Date
Persatuan Pegawai Akademik UPM	2013	To Date
IACSIT Membership Senior Member	2015	To Date

IEEE Learning Technology Life Member	2017	To Date
IICBEE Life Member	2017	To Date
Tissue Engineering Malaysia TESMA Malaysia	2018	To Date
Genetic Society Malaysia	2018	To Date
Medical Physics Society (Life member)	2015	To Date
Institute of Physics (Life member)	2012	To Date
NLP Certification	2018	To Date
Aura Insani Certification	2018	To Date
Psychonumerology Certification	2018	To Date
Cognitive Behaviour Therapy Certification	2018	To Date

0. Pengadil Akademik *(Academic Referee)*

- 1) Dr Richard Sear
Reader, Soft Matter Group leader
Department of Physics
University of Surrey
Guildford, Surrey
GU2 7XH United Kingdom
+44 (0)1483 686793
r.sear@surrey.ac.uk
<http://www.richardsear.me>
- 2) Prof Alan Dalton
Professor of Experimental Physics
(Physics and Astronomy, Materials Physics Group)
University of Sussex
Sussex House, Falmer, Brighton,
BN1 9RH, United Kingdom
+44 1273 678075

A.B.Dalton@sussex.ac.uk
<p>3) Associate Prof Yuki Shirosaki Department of Materials Science Faculty of Engineering Kyushu Institute of Technology Sensui-cho, Tobata-ku Kitakyushu-shi, Fukuoka, 804-8550, Japan Tobata Campus +81-93-884-3302 yukis@che.kyutech.ac.jp shirosaki.yuki916@mail.kyutech.jp http://www.che.kyutech.ac.jp/chem29</p>
<p>4) Prof Dr Youichi Shimizu Department of Applied Chemistry, Kyushu Institute of Technology, 1-1 Sensui-cho Tobata, Kitakyushu 804-8550 Japan +81-93-884-3323 shimizu.youichi366@mail.kyutech.jp shims@che.kyutech.ac.jp http://www.che.kyutech.ac.jp/chem16/</p>
<p>5) Dr. Wan Amir Nizam Wan Ahmad Biomedicine Science Programme, School of Health Sciences, Universiti Sains Malaysia 16150 Kota Bharu +6097677652 wanamir@usm.my</p>
<p>6) Prof Dr Shaharum Shamsuddin Biomedicine Programme, School of Health Sciences, Universiti Sains Malaysia 16150 Kota Bharu +6097677782 shaharum1@usm.my</p>

7) Professor Dato' Dr Abd Aziz Tajuddin

School of Physics,

Universiti Sains Malaysia,

11800 USM, Penang, Malaysia

+604 653 3200

draat@usm.my

8) Associate Professor Dr. A. Nanthini Sridewi

Department of Maritime Science and Technology

Faculty of Science and Defence Technology

National Defence University of Malaysia

Sungai Besi Camp

57000 Kuala Lumpur

+03-9051 3400; HP: (6)012-467 5320

nanthini_sridewi@yahoo.com

nanthini@upnm.edu.my

9) Associate Prof Dr Norhaizan Esa

Department of Nutrition and Dietetics,

Faculty of Medicine and Health Sciences,

Universiti Putra Malaysia,

43400 Serdang, Selangor

+6038947 2427; H/P: 016-386 5896

nhaizan@upm.edu.my