

Curriculum Vitae



1. Personal Details	
Full Name	Emma Ziezie Binti Mohd Tarmizi
Designation	Senior Lecturer
Address of department/faculty	Physics Unit Centre for Foundation Studies in Science, Jalan Asam Jawa, Universiti Putra Malaysia, 43400 Serdang, Selangor
Email	emma@upm.edu.my
Staff ID	A04715
Contact number	0197515576
Scopus author ID	57194525256
ORCID No.	0000-0002-1026-7214

2. Academic Qualifications			
Certificate/ Qualification obtained	Name of Institution	Year Granted	Area of Specialization
Bachelor Of Science	University Of Putra Malaysia	2002	Materials Science
Master Of Science	University Of Putra Malaysia	2006	Dielectric Physics
Doctor Of Philosophy	University Of Putra Malaysia	2015	Materials Science
Professional Diploma	Dewan Bahasa & Pustaka-Malaysian Translator Association	2018	Translation

3. Professional Membership	
Name of society	Type of Membership
Persatuan Pegawai Akademik UPM (PPA)	Member
Persatuan Permata UPM	Member

4. Employment				
Employer	Designation	Faculty/ Centre	Start Date	Date Ended
Universiti Putra Malaysia	Senior Lecturer	Centre for Foundation Studies in Science, UPM	October 2017	present
UPM & UNITEN	Lab Demonstrator	Physics Division	2002	2013

UPM	Research Assistant	Physics Department	2002, 2005	2006
-	Freelance Translator	-	2016	present

5. Teaching Experience

Module Code	Module	Level	Credit Hour	Sem/ Year	Department/ Faculty/ Centre
ASP0504	Physics I	Pre-uni	5	Sem I 2017/2018 - present	Physics Unit/ Centre for Foundation Studies in Science, UPM
ASP0505	Physics II	Pre-uni	5	Sem II 2017/2018 - present	Physics Unit/ Centre for Foundation Studies in Science, UPM

6. Honors and Awards (Top 10 Awards)

Name of Awards	Title	Award Authority	Type of Award	Year
Scholarship	Graduate Research Fellowship	University Putra Malaysia	National	2008
Poster Competition	Best Poster Award	Malaysian Solid State Science and Technology Society Conference	National	2002
Exhibition of Research, Invention and Innovation	Bronze Medal	UPM	National	2003
Exhibition of Research, Invention and Innovation	Bronze Medal	UPM	National	2005
Program Global I-Lead STEM Camp	Silver Medal	UPM, PIBG SBPI Selandar, ASPer & Faculty of Science, UPM	National	2017
Creations De UiTM, Mega Innovation Carnival 2020	Bronze Medal	UiTM	National	2020
Vital Symposium on Multidisciplinary Science 2020 (SMS2021)	Best Presenter Award	UPM	National	2021
Pre-University Matriculation Innovation Competition 2022 (Piitram 2022)	Gold Medal	UPNM	National	2022

International University Carnival on e-Learning 2022 (IUCEL 2022)	Silver Medal	UPM	International	2022
Pre-University Matriculation Innovation Competition 2023 (Piitram 2023)	Gold Medal	UPM	National	2023
Pre-University Matriculation Innovation Competition 2023 (Piitram 2023)	Silver Medal	UPM	National	2023
PICTL 2023	Gold Medal	UPM	National	2023
Pre-University Matriculation Innovation Competition 2024 (Piitram 2024)	Bronze Medal	USIM	National	2024
Pertandingan Amalan Terbaik Inovasi Pengajaran dan Pembelajaran antara Fakulti/Sekolah/Institut/Pusat Pembelajaran UPM	Tempat Ketiga	UPM	National	2024
12th Malaysia International Young Investors Olympiad MIVIO 2024	Gold Medal	Ministry of Education	International	2024
Pre-University Matriculation Innovation Competition 2025 (Piitram 2025)	Silver Medal	UMT	International	2025

7. List of Significant Journal Publications (latest within 10 years):

- 1) **Emma Ziezie Mohd Tarmizi**, Hussein Baqiah, Zainal Abidin Talib (2017). Facile synthesis and characterizations of polypyrrole/BiOCl hybrid composites. *Journal of Solid State Electrochemistry* (21):3247-3255.
- 2) **Emma Ziezie Mohd Tarmizi**, Hussein Baqiah, Zainal Abidin Talib, Halimah Mohamed Kamari (2018). Preparation and physical properties of polypyrrole/zeolite composites. *Results in Physics* (11):793-800.
- 3) Halimah Mohamed Kamari; **Emma Ziezie**; Zainal Abidin Talib (2019). Determination of Thermal Diffusivity of Polypyrrole and Polypyrrole/Bismuth Oxide Conducting Polymers Using Laser Flash Technique. *Journal of Engineering and Applied Sciences* 14:5642-5646.
- 4) C.Y. Beh; M.S. Abdul Majid; E.M. Cheng; N.F. Mohd Nasir; **E.Z. Mohd Tarmizi**; S.K. Eng; M.J.M. Ridzuan; F.S. Ahmad Saad; S.F. Khor (2020) Morphological and optical properties of porous hydroxyapatite/cornstarch (HAp/Cs) Composites. *Journal of Material Research and Technology* 9(6):14267-142821.
- 5) Nor Azah Abdul Aziz; **Emma Ziezie Mohd Tarmizi**; Ya'akob Mansor (2021). Coherence Measurement at Different Spatial Points Across High Harmonic Generation Source Using Different Spatial Filter. *Macromolecular Symposia* 397(1): 2000292(1-7).

6)	Tuan Syarifah Rosyidah Tuan Naiwi, Min Min Aung, Marwah Rayung, Azizan Ahmad, Kai Ling Chai, Mark Lee Wun Fui, Emma Ziezie Mohd Tarmizi , Nor Azah Abdul Aziz (2022). Dielectric and ionic transport properties of bio-based polyurethane acrylate solid polymer electrolyte for application in electrochemical devices. <i>Polymer Testing</i> 106 (107459): 1-14.
7)	Chong You Beh, Ee Meng Cheng, Nashrul Fazli Mohd Nasir, Mohd Shukry Abdul Majid, Shing Phan Khor, Mohd Ridzuan Mohd Jamir, Emma Ziezie Mohd Tarmizi , Kim Yee Lee (2022). Dielectric Properties of Hydrothermally Modified Potato, Corn, and Rice Starch. <i>Agriculture</i> 783 (12):1-14.
8)	Chong You Beh, Ee Meng Cheng, Nashrul Fazli Mohd Nasir, Mohd Shukry Abdul Majid, Shing Phan Khor, Mohd Ridzuan Mohd Jamir, Emma Ziezie Mohd Tarmizi , Kim Yee Lee (2022). Regression Analysis of the Dielectric and Morphological Properties for Porous Nanohydroxyapatite/Starch Composites: A Correlative Study. <i>International Journal of Molecular Sciences</i> 5695 (23):1-19.
9)	NA Abdul Aziz, EZM Tarmizi , CSC Razak, IM Noor (2022). Impact of charge carrier transport properties on conductivity-temperature dependence of gellan gum-LiCF ₃ SO ₃ biopolymer electrolyte. <i>High Performance Polymer</i> 34 (6): 691-700.
10)	Beh Chong You, Cheng Ee Meng, Nashrul Fazli Mohd Nasir, Emma Ziezie Mohd Tarmizi , Khor Shing Phan, Eng Swee Kheng, Mohd Shukry Abdul Majid, Mohd Ridzuan Mohd Jamir (2022). Dielectric and biodegradation properties of biodegradable nano-hydroxyapatite/starch bone scaffold. <i>Journal of Materials Research and Technology</i> 18 (3215):3215-3226.
11)	Nor Azah Abdul Aziz, Emma Ziezie Mohd Tarmizi , Khuong Ba Dinh (2022). Analysis of spatial coherence length of high harmonic generated in argon. <i>Optical and Quantum Electronics</i> 54:1-15.
12)	Ee Meng Cheng, Kim Yee Lee, Shing Phan Khor, Nashrul Fazli Mohd Nasir, Che Wan Sharifah Robiah Mohamad, Nor Azah ABDUL AZIZ, Emma Ziezie Mohd Tarmizi , Siti Aishah Baharuddin (2022). Microwave Dielectric and Reflection Analysis on Pure and Adulterated Trigona Honey and Honey Gold. <i>Radioengineering</i> 31 (3):281-293.
13)	Chong You Beh, Ee Meng Cheng, Nashrul Fazli Mohd Nasir, Mohd Shukry Abdul Majid, Shing Phan Khor, Mohd Ridzuan Mohd Jamir, Emma Ziezie Mohd Tarmizi , Kim Yee Lee (2022). Regression Analysis of the Dielectric and Morphological Properties for Porous Nanohydroxyapatite/Starch Composites: A Correlative Study. <i>International Journal of Molecular Sciences</i> 23(10):5695.
14)	Siti Nur Hazwani Yunus, Khor Shing Phan, Banjuraizah Johar, Nur Maizatul Shima Adzali, Nur Hazlinda Jakfar, Cheng Ee Meng, Emma Ziezie Mohd Tarmizi , Zainal Abidin Talib (2023). Formation of Bio-based Derived Dicalcium Silicate Ceramics via Mechanochemical Treatment: Physical, XRD, SEM and FTIR Analyses. <i>International Journal of Nanoelectronics & Materials</i> 16(3):1-19.
15)	Siti Nur Hazwani Mohd Yunus, Khor Shing Phan, Banjuraizah Johar, Nur Maizatul Shima Adzali, Nur Hazlinda Jakfar, Cheng Ee Meng, Emma Ziezie Mohd Tarmizi , Zainal Abidin Talib (2023). Effect of sintering temperature on dielectric and electrical properties of bio-waste derived beta-dicalcium silicate. <i>Materials Chemistry and Physics</i> 309:128339.
16)	Cheng Ee Meng, Che Wan Sharifah Robiah Mohamad, Nashrul Fazli Mohd Nasir, Khor Shing Phan, Ong Hong Liang, Tan Xiao Jian, Lee Kim Yee, You Kok Yeow, Emma Ziezie Mohd Tarmizi , Mohd Riza Mohd Roslan, Siti Aishah Baharuddin (2024). Mineral composition, crystallinity and dielectric evaluation of Bamboo Salt, Himalaya Salt, and Ba'kelalan salt content. <i>Heliyon</i> 10:1.
17)	Ong Hong Liang, Cheng Ee Meng, Che Wan Sharifah Robiah Mohamad, Nashrul Fazli Mohd Nasir, Tan Xiao Jian, Beh Chong You, Emma Ziezie Mohd Tarmizi , Lee Kim Yee, You Kok Yeow, Khor Shing Phan, Leu Kim Fey, Te Kian Keong, Mohd Riza Mohd Roslan,

Siti Aishah Baharuddin (2024). Frequency-dependent dielectric spectroscopic analysis on phytochemical and antioxidant activities in Radix Glycyrrhizae extract. *Heliyon* 10:17.

18) Mohamed Abdelmonem Abdelsamea, O Mohamed Lemine, **Emma Ziezie Mohd Tarmizi**, Norazalina Saad, Huey Fang Teh, Ahmad Kamil Mohd Jaaffar, Mohamed Ahmed Ahmed Ibrahim, Che Azuranim A Che Abdullah (2024). Taguchi Parametric Optimization of Theobroma Cocoa-Derived Magnetite Nanoparticles: Synthesis, Pegylation, and Magnetic Hyperthermia Potential. *Journal of Water and Environmental Nanotechnology* 9(4):428-448.

19) Mohamed Abdelmonem, Emmellie Laura Albert, Nur Khalida Rahayu Zainon, **Emma Ziezie Mohd Tarmizi**, Samer H Zyoud, Che Azuranim Che Abdullah (2024). Biosynthesis of Iron Oxide Nanoparticles (IONPs): Toxicity Evaluation and Applications for Magnetic Resonance Imaging and Magnetic Hyperthermia. *Book: Emerging Applications of Novel Nanoparticles* 229-249.

20) Mohamed Abdelmonem, Emmellie Laura Albert, Ashreen Norman, **Emma Ziezie Mohd Tarmizi**, Samer H Zyoud, Che Azuranim Che Abdullah (2024). Surface Functionalization of 2D MOs for Enhanced Biocompatibility and Biomedical Applications. *Book: Emerging Applications of Novel Nanoparticles* 175-198.

21) Mohamed Abdelmonem, Romesa Soomro, Norazalina Saad, Mohamed Ahmed Ibrahim, Emmellie Laura Albert, **Emma Ziezie Mohd Tarmizi**, Che Azuranim Che Abdullah (2025). Plant-derived Synthesis of Iron Oxide Nanoparticles for Magnetic Hyperthermia and Magnetic Resonance Imaging Applications. *Nano Biomedicine & Engineering* 7(1):1-17.