



Mou'ad A. M. Tarawneh C.V.



CURRICULUM VITAE

Mou'ad Ahmad M. Tarawneh

June 2021



PERSONAL

<i>Place of Birth</i>	Jordan
<i>Date of Birth</i>	Dec 13, 1980
<i>Marital Status</i>	Married
<i>Nationality</i>	Jordanian
<i>Work Address</i>	Department of Physics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan. Phone: +962-3-2179000 Ext.: 6309 , E-mail: moaath.tarawnah@ahu.edu.jo
<i>Academic Rank (date)</i>	Associated Professor (2017)
<i>Permanent Address</i>	Karak, Jordan. Cell Phone:+962-6426974, E-mail: moaath20042002@yahoo.com , moaathme1@gmail.com

ACADEMIC QUALIFICATIONS

2007 - 2010	Ph.D. , Nanomaterial Science, National University of Malaysia, Malaysia
2003 - 2005	M.Sc. , Solid state of Physics, Mu'tah University, Jordan.
1998 - 2002	B.Sc. , Physics, Mu'tah University, Jordan.

SPECIALTY

<i>General Specialization:</i>	Physics-Material Science
<i>Specialization :</i>	Nanomaterial Science

CAREER HISTORY

Fab 2018 -Present	Associated Professor , Department of Physics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.
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Mou'ad A. M. Tarawneh C.V.

Aug 2016 – Feb 17 **Assistance Professor**, Department of Physics, Collage of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.

Feb 2015- Feb 2016 **Senior Lecturer**, Department of Physics, Collage of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.

Jan 2011- Jan 2015 **Senior Lecturer**, School of Applied Physics, Faculty of Science and Technology, University Kebangsaan Malaysia, Malaysia

ADMINISTRATIVE EXPERIENCE

Positions

Sep 2016 - Sep 2017 **Head Department of physics**, Collage of Science, Al-Hussein Bin Talal University, Ma'an, Jordan

Sep 2017 - Sep 2018 **Head Department of physics**, Collage of Science, Al-Hussein Bin Talal University, Ma'an, Jordan

Committees

2015 - Present Many Committees in the Physics Department, College of Science and Al-Hussein Bin Talal University, Ma'an, Jordan

HONORS, SCHOLARSHIPS, AWARDS AND GRANTS

2009 • Science fund Grant 03-01-02-SF0059

2011 • UKM-OUP-NBT-29-142/2011

2011 • UKM-OUP-FST-2011

2011 • UKM-GUP-2011-161

2012 • UKM-OUP-2012-135

2012 • UKM-DLP-2012-029

2012 • FRGS/1/2012/SG07/UKM/01/1

2012 • GUP-2012-084

2014 • DLP-2014-034



Mou'ad A. M. Tarawneh C.V.



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|------|---|---------------------------|
| 2014 | • | FRGS/1/2014/SG06/UKM/01/2 |
| 2016 | • | DIP-2016-023 |
| 2018 | • | DIP-2018-031 |
| 2019 | • | FRGS/1/2019/TK05/UKM/02/3 |

PROFESSIONAL MEMBERSHIPS AND SERVICES

Membership(s)

Service(s)

- Composites, Part B
- Journal of Reinforced Plastics and Composites
- Journal of Thermoplastic Composite Materials
- Journal of Industrial & Engineering Chemistry Research
- Journal of Polymer Bulletin
- Silicon Journal
- Optical Materials
- Science and Engineering of Composite Materials (SECM)
- Advances in Materials Science and Applications (AMSA)

Editor in Journal:

- The Scientific Research Journal (SRJ) (ISSN: 1675-7009), published by Universiti Teknologi MARA (UiTM), Malaysia

Research Student Supervision

- 8 students at PhD level and, 12 students at Masters level, many undergraduates for project dissertations beginning 2010 until now.

RESEARCH INTEREST

- Polymer Nanocomposites
- Advanced Materials
- Nanomaterials



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- Thermoplastic Natural Rubber
- Carbon Nanotubes
- Graphene/Graphene Oxide/Graphene Nanoplates
- Polymer Blending
- Natural fiber reinforced composites

EXPERIENCE INSTRUMENTS INCLUDED

- Polarized Light Microscopy
- Differential Scanning Calorimeter (DSC)
- Thermal Gravimetric Analysis (TGA)
- Dynamic Mechanical Analysis (DMA)
- Tensile Machine
- Impact Machine
- Thermal Conductivity Instruments
- Internal Mixer, Extruder Mixer and Injection Moulding
- Transmission Electron Microscope (TEM)
- Scanning Electron Micrograph (SEM)
- Fourier Transform Infrared Spectroscopy (FTIR)
- Atomic Force Microscopy (AFM)

PUBLICATIONS

Peer-reviewed journal articles

- **Mou'ad.A.Tarawneh**, Ing Kong, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya, Lih Jiun Yu, Moayad Husein Flaifel. Magnetic properties of thermoplastic natural rubber nanocomposites reinforced with carbon nanotubes. World journal of engineering, Vol 5, No 4. 1019.2008
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya,Rozaidi Rasid. The Effect of Ultrasonic Treatment on The Tensile Properties of Thermoplastic Natural Rubber (TPNR) Nanocomposites. Journal of solid state science and technology, Volume 17, No1, 37-43.2009



- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya,Rozaidi Rasid. Effect of Ultrasonic Treatment on The Tensile and Impact Properties of Thermoplastic Natural Rubber Nanocomposites Reinforced With Carbon Nanotubes. Journal of American Institute of Physics (AIP). Volume 1136, 71-75.2009
- Mohamad M. Milad, Sahrim Hj. Ahmad, S.Y.YAHYA. **Mou'ad.A.Tarawneh**. Mechanical and Magnetic Properties of Thermoplastic Natural Rubber Naocomposites Filled With Barium Ferrit. Journal of American Institute of Physics (AIP). Volume 1136, pp. 46-50.2009
- Sahrim Ahmad, A.Aziz Mohamed, Jaafar Abdullah, Hafizal Yazid, M.Dahlan, Rozaidi Rasid, W. Saffiey W.Abdullah, Mahathir Mohamad, Rafhayudi Jamro, M.Hamzah Harun, **Mou'ad A.T**. Application of image and X-ray microtomography technique to quantify filler distribution in thermoplastic-natural rubber blend composites. Journal of American Institute of Physics (AIP). Volume 1212, pp 139-145.2009
- Sahrim Haji Ahmad; **Mouad, A. T.**; Mohamed, A. A.; Jaafar Abdullah; Hafizal Yazid; Wan Saffiey Wan Abdullah; Rafhayudi Jamro; Faridah Idris; Haniza Yazid; Rozaidi Rasid. Image analysis of filler dispersion in TPNR composites. Instrumentation Related to Nuclear Science and Technology (S46). 41 (24). 2009.
- **Mou'ad. A. Tarawneh**, Sahrim Hj. Ahmad, S. Y. Yahya, Rozaidi Rasid,Yew Chin Hock, and Hazwani Binti Halim. Tensile and Impact Properties of Thermoplastic Natural Rubber (TPNR) Filled with Carbon Nanotubes (MWNTs), Journal of American Institute of Physics (AIP). Volume 1250, 213-216.2010
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya, Lng Kong Mechanical Properties of Thermoplastic Natural Rubber (TPNR) Reinforced With Multi-Walled Carbon Nanotubes (MWNTs). Journal of Solid State Science and Technology Letters, Vol. 17, No 1&2 (2010) 70-76.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya. Mechanical Properties of Thermoplastic Natural Rubber (TPNR) Reinforced With Different Types of Carbon Nanotube. Journal of Sains Malaysiana, Vol 40, No. 7, 725-728, 2011.ISSN



0126-6039

- Lee Yip Seng, Sahrim HJ. Ahmad, Rozaidi Rasid, Se Yong Eh Noum, Yew Chin Hock & **Mou'ad A. Tarawneh**. Effects of LNR on Mechanical Properties of Liquid Natural Rubber Toughened Epoxy Composite. Journal of Sains Malaysiana, Vol 40, No. 7, 679-683, 2011.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya and Se Yong Eh Noum. Thermal Behavior of a MWNT Reinforced Thermoplastic Natural Rubber Nanocomposite. Journal of Reinforced Plastic and Composites 30(3) 216–221.2011.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya, Se Yong Eh Noum. Enhancement of the Mechanical Properties of Thermoplastic Natural Rubber Using Multi-walled Carbon Nanotubes, Journal of Reinforced Plastic and Composites. 30(4) 363–368.2011. ISSN 0731-6844.
- **Mou'ad.A.Tarawneh**, Rozaidi Rasid, S.Y.Yahya, Se Yong Eh Noum. The Enhancement of Properties of TPNR/Clay Nanocomposites by Using Ultrasonic Treatment. Journal of Reinforced Plastic and Composites. 30(6) 524–532.2011. ISSN 0731-6844
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid. Mechanical and Thermal Properties of Thermoplastic Natural Rubber (TPNR) Nanocomposites Treated with Ultrasonic. Journal of Advanced Materials Research, Volumes 264 – 265, page 973-978. (2011). ISSN 978-3-03785-053-4
- **Mou'ad.A.Tarawneh** and Sahrim.H. Ahmad, Thermoplastic Natural Rubber (TPNR) Composite Reinforced With Nanoclay, MWNTs and Hybrid Nanoclay-MWNTs, Journal of Reinforced Plastic and Composites. Voulme 30, number 20, 1745-1752. (2011). ISSN 0731-6844
- Safwat A. Mahmoud, Shereen Alshomer, **Mou'ad A. Tarawnh**, Structural and Optical Dispersion Characterisation of Sprayed Nickel Oxide Thin Films. Journal of Modern Physics, 2011, 2, 1178-1186
- Ku Zarina KU AHMAD, Sahrim HJ. AHMAD, **Mou'ad A.Tarawneh**, Prakash R. APTE. Optimization of Tensile Properties of Epoxy/nanoclay/MWNT nanocomposites by Taguchi Method, Journal of Advanced Materials Research Vol. 428 (2012) pp 3-6



- Sahrim Hj. Ahmad, **Mou'ad.A.Tarawneh** , Yu Lih Jiun, Shamsul Bahri, A.R, Mechanical Properties of TPNR-MWNTs-OMMT Hybrid Nanocomposites. Journal of Advanced Materials Research .Vol 501(2012) pp (194-198).
- Yu Lih Jiun, Sahrim Hj. Ahmad, **Mou'ad.A.Tarawneh**,Kong Long, Microwaves Absorbing prperties of Nicklel-Zinc Ferrite/ Multiwalled carbon nanotubes theroplastic Natural Rubber Composires. Journal of Advanced Materials Research Vol 501(2012) pp (24-28).
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Ku Zarina K.A, Norita Hassan, Thermal Conductivity, Thermal Diffusivity and Specific Heat of TPNR Hybrid Nanocomposites At different Temperatures. Journal of Advanced Materials Research.Vol.576(2012) pp.(296-299)
- H. Norita, S. H. Ahmad, N. Muhamad, M. A. Omar, H. N. Azlina and **Mou'ad a. Tarawneh**. Investigations on Metal Injection Molding of 316L SS Using Thermoplastic Natural Rubber (TPNR) Binder as a New System. Journal of Advanced Materials Research.Vol. 576 (2012) pp.(150-153)
- Ku Zarina KU AHMAD, Sahrim HJ. AHMAD, **Mou'ad A.Tarawneh**, Application of taguchi's approach in the optimization of tensile properties of epoxy nanoclay/MWNTs nanocomposites. Journal of Advanced Materials Research.Vol.576 (2012) pp. (256-259).
- K.Z.K Ahmad, S. HJ. Ahmad, **M. A. Tarawneh** P.R. Apte, Evaluation of Mechanical Properties of Epoxy/Nanoclay/Multi-Walled Carbon Nanotube Nanocomposites using Taguchi Method, Journal of Procedia Chemistry.2012. Volume 4, Pages 80–86.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad , Ku Zarina K.A, Ibrahim N. Hassan, and Shamsul Bahri A.R , The Enhancement of Properties of TPNR-MWNTs-OMMT Hybrid Nanocomposites by Using Ultrasonic Treatment. Journal of Sains Malaysiana .Volume 42 (4) 2013.
- **Mou'ad.A.Tarawneh**, Sahrim Hj Ahmad. The Effect of Ultrasonic Treatment and Gamma Radiation on the Thermal Conductivity of TPNR Hybrid Nanocomposites. Journal of Advanced Materials Research Vol. 626 (2013) pp.(29-33)



- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y.Yahya, Kin-tak Lau, Ing Kong. Sonication Effect on the Mechanical Properties of MWNT Reinforced Natural Rubber. *Journal of Composite Materials*. 2013, 47(5) 579–585.
- Moayad Husein Flaifel, Sahrim Hj Ahmad, Aziz Hassan, Shamsul Bahri, **Mou'ad A. Tarawneh**, Lih-Jiun Yu. Thermal Conductivity and Dynamic Mechanical Analysis of Nickel Zinc Ferrite Nanoparticles Filled Thermoplastic Natural Rubber Nanocomposite. *Composites: Part B engineering* 52 (2013) 334–339.
- **Mou'ad A.Tarawneh**, Sahrim Hj.Ahmad, Ku Zarina K. A. The Effect of MWCNTs on the Rubber-Toughened Epoxy Nanocomposites. *IEEE. 2012 IEEE Colloquium on Humanities, Science & Engineering Research (CHUSER 2012)*, December 3-4, 2012, Kota Kinabalu, Sabah, Malaysia. 2013 pp.(810-813).
- Yu Lin Jiun, Sahrim Hj. Ahmad, Kong Lng, **Mou'ad.A.Tarawneh**. Morphology, Thermal Stability and Dynamic Mechanical Properties NIZN Ferrit/MWNTs Thermoplastic Natural Rubber Composite. *International Journal of Materials Engineering Innovation*. 2013. Vol. 4 No. 3/4.page (214-224).
- **Mou'ad A Tarawneh**, Dalila Shahdan, and Sahrim Hj. Ahmad. Investigation on the Effect of NiZn Ferrite on the Mechanical and Thermal Conductivity of PLA/LNR Nanocomposites. *Journal of Nanomaterials*. Volume 2013 (2013), Article ID 306961.
- **Mou'ad. A. Tarawneh**, Sahrim Hj. Ahmad, A.R. Shamsul Bahri& S.N. Surip. The Effects of Gamma Irradiation on Mechanical Properties of TPNR Hybrid Nanocomposites. *International journal of Composite Interfaces* (Volume 21, Issue 4:281-286. 2014
- **Mou'ad A Tarawneh**, Sahrim Hj Ahmad, Yu Lih Jiun, Radwan Dweiri, Ibrahim N. Hassan. Morphology and Mechanical Properties of NiZn ferrite/ Thermoplastic Natural Rubber Composite. *Journal of Advanced Materials Research* Vol. 925: 308-312. 2014



- SE Yong Eh Noum, SAHRIM Ahmad, Rozaidi Rasid, Yew Chin Hock, Lee Yip Seng & **Mou'ad A. Tarawneh**. Preparation and Characterisation of Epoxidized Natural Rubber Reinforced Epoxy Nanocomposites. Sains Malaysiana 43(8): 1231–1237:2014
- **Mou'ad. A. Tarawneh** & Sahrim Hj. Ahamd. Characterization and properties of PLA/ENR/MWCNTs nanocomposite. Communications in Information Engineering. E-COMMERCE, E-BUSINESS AND E-SERVICE. Page 195-198. 2014 Taylor & Francis Group, London, ISBN 978-1-138-02646-9
- LJ Yu, SH Ahmad, S Appadu, I Kong, **MA Tarawneh**, MH Flaifel. Comparison of magnetic and microwave absorbing properties between multiwalled carbon nanotubes nanocomposite, nickel zinc ferrite nanocomposite and hybrid nanocomposite. World Journal of Engineering 11 (4), 317-322. 2014
- Ruey Shan Chen, Mohd Hafizuddin Ab Ghani, Sahrim Ahmad, Mohd Nazry Salleh, **A Tarawneh Mou'ad**. Rice husk flour Biocomposites Based on Recycled High-Density Polyethylene/Polyethylene Terephthalate Blend: Effect of High Filler Loading on Physical, Mechanical and Thermal Properties. Journal of Composite Materials. Vol 29(10), 1241-1253.2014.
- Ruey Shan Chen, Mohd Hafizuddin Ab Ghani, Mohd Nazry Salleh, Sahrim Ahmad and **Mou'ad A. Tarawneh**. Mechanical, water absorption, and morphology of recycled polymer blend rice husk flour biocomposites, Journal of Applied Polymer Science., 132, 41494. 2015
- **Mou'ad. A. Tarawneh**, Sahrim Hj. Ahmad, Ibrahim N. Hassan, Ruey Shan Chen, O. Al-Banawi. Characterizations and Morphology of MWCNTs-SiC Nanoparticles Reinforced PLA/NR/LENR Composites. Journal of Advanced Materials Research 2015. Vol. 1107, pp 108-112. 2015
- Amamer Musbah Redwan, Khairiah Haji Badri, and **Mou'ad A. Tarawneh**. The Effect of Aluminium Hydroxide (ATH) on the Mechanical Properties and Fire Resistivity of Palm-Based Fibreboard Prepared By Pre-Polymerization Method. Journal of Advanced Materials Research.2015. Vol. 1087, pp 287-292.2015



- Ibrahim N. Hassan, Faszly Rahim, Sharina Abu Hanifah, **Mou'ad A. Tarawneh**, Bohari M. Yamin. Synthesis, Characterization, Spectroscopic and X-Ray Diffraction Studies of a Novel Pair of Thiourea Derivatives of 2-morpholin-4-yl-ethylamine. *ASIAN Journal of Chemistry*. Vol 27, No 10. PP. 3711-3715. 2015
- Ibrahim N. Hassan, **Mou'ad A. Tarawneh**, Bohari M. Yamin. Synthesis, Spectral and Single-Crystal Analyses of New Derivative of 4-Amino-N-benzylpiperidine. *ASIAN Journal of Chemistry*. Vol 27, No 12. PP. 4457-4460. 2015
- **Mou'ad.A.Tarawneh**, L.J. YU, Musab A.Tarawni, Sahrim Hj. Ahmad, O. Al-Banawi, Mohammad A.Batiha. High Performance Thermoplastic Elastomer (TPE) Nanocomposite Based on Graphene Nanoplates (GNPs). *World Journal of Engineering*. 12(5) 437-442. 2015
- Siti Norasmah Surip, Wan Nor Raihan Wan Jaafar, **Mou'ad.A.Tarawneh**, Nur Naziha Azmi. Mechanical Properties of Polylactic Acid (PLA) Green Composites Reinforced By Kenaf Bast and Core Fibers. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-5 Issue-5. 2015.
- **Mou'ad.A.Tarawneh**, Adilah Mat Ali, Sahrim Hj. Ahmad, L.J. YU. Influence of Multiwalled Carbon Nanotubes Content on Thermal Conductivity of Polyactic Acid/Liquid Natural Rubber Nanocomposite. *World Journal of Engineering*. Volume 13 · Number 1. pp1–5· 2016.
- Adilah Mat Ali, Sahrim Hj Ahmad*, Mou'ad A.Tarawneh. Effect of Multi Walled Carbon Nanotubes on Thermal Conductivity of Polylactic acid Nanocomposite. *Malaysian Journal of Analytical Sciences*. Vol 20 No 5 (2016): 1084 – 1089.
- **Mou'ad .A. Tarawneh**, Sahrim Ahmad, Ruey Shan Chen. Mechanical, thermal, and electrical properties of graphene oxide–multiwalled carbon nanotubes-filled thermoplastic elastomer nanocomposite. *Journal of Elastomers and Plastics*. 49 (4), 345-355. 2017.



- Ruey Shan Chen, Sahrim Ahmad, Sinyee Gan, Mohd Nazry Salleh, Mohd Hafizuddin Ab Ghani, **Mou'ad A. Tarawneh**. Effect of polymer blend matrix compatibility and fibre reinforcement content on thermal stability and flammability of eco-composites made from waste materials. *Thermochimica Acta*. Volume 640, 20 September 2016, Pages 52–61.
- MAM Al-Tarawni, AAA Bakar, ARM Zain, **AT Mou'ad**, SH Ahmad. Optimizing an integrated waveguide modulator for sensitive low-frequency alternating-current electric-field sensors. *Optical Engineering* 56 (6), 067101.2017
- MAM Al-Tarawni, AAA Bakar, ARM Zain, **AT Mou'ad**, SH Ahmad. Improvement of integrated electric field sensor based on hybrid segmented slot waveguide. *Optical Engineering* 56 (10), 107105. 2017.
- Mohammed Al-Tweissi, **Mou'ad A. Tarawneh**, M.Q. Owaidat, Monther Als Boul. Optical Characterization of Thin Films Poly (Ethylene Oxide) Doped with Cesium Iodide. *Journal of Nano- and Electronic Physics*. Vol. 10 No 5, 05016(4pp) (2018).
- **Mou'ad A. Tarawneh**, Ruey Shan Chen, Sahrim Hj Ahmad, Musab A. M. Al-Tarawni, S.A. Sarairoh. Hybridization of a thermoplastic natural rubber composite with multi-walled carbon nanotubes/silicon carbide nanoparticles and the effects on morphological, thermal, and mechanical properties. *Polymer Composites*. Vol 40 (S1), pp E695-E703. 2019
- Musab AM Al-Tarawni, A Ashrif A Bakar, Ahmad Rifqi Md Zain, **A Tarawneh Mou'ad**, Sahrim Hj Ahmad. Enhancing the performance of strip and 180-deg slot waveguide bends for integrated optical waveguide modulator. *Optical Engineering* 58 (2), 027104. 2019.
- Lih Jiun Yu, Christopher Wong Yoke Chi, Vishantini Tangavaloo, Keuw Wei Lim, **A Tarawneh Mou'ad**. *MATEC Web of Conferences*. Vol 268, pp 01011. 2019
- Lih-Jiun Yu, Sahrim Hj Ahmad, **Mouad A Tarawneh**, AR Shamsul Bahri, Elango Natarajan, Chun Kit Ang. Magnetic, thermal stability and dynamic mechanical properties of beta isotactic polypropylene/natural rubber blends reinforced by NiZn ferrite nanoparticles. *Defence Technology*. 15 (6), 958-963 2019



- Lih-Jiun Yu, Kumaraguru Rengasamy, Kian-Yiap Lim, Lian-See Tan, **Tarawneh Mouad'A**, Zuliani Binti Zulkoffli, Eh Noum Se Yong. Comparison of activated carbon and zeolites' filtering efficiency in freshwater. *Journal of Environmental Chemical Engineering*. Volume 7, Issue 4, 103223. 2019
- Chen RS, Ahmad S, Gan S, **Tarawneh MA**. High loading rice husk green composites: Dimensional stability, tensile behavior and prediction, and combustion properties. *Journal of Thermoplastic Composite Materials*. 2020;33(7):882-897.
- **Mou'ad Ahmad Tarawneh**, Sherin Abdalkarim Saraireh, Ruey Shan Chen, Sahrim Hj Ahmad, Musab Ahmad Mohammad Al-Tarawni, Mohammed Al-Tweissi, Lih Jiun Yu. Mechanical, thermal, and conductivity performances of novel thermoplastic natural rubber/graphene nanoplates/polyaniline composites. *Journal of Applied Polymer Science*. Volume,137, Issue 28, 48873. 2020
- Sherin A Saraireh, Mohammednoor Altarawneh, **Mouad A Tarawneh**. Adsorption and dissociation of the methanethiol (CH₃SH) molecule on the Fe(100) surface. *Surface and Interface Analysis*. Volume 52, Issue 4, 156-166.2020
- Lyu Yao, Yu Lih Jiun, Khairiah Haji Badri, Zuliani Zulkoffli, Zainuddin Sajuri, Muhammad Zhafarin Firdaus Zulkefly, **Mouad A Tarawneh**. Characterization of Biomass-Reinforced Biopolyol-Based Polyurethane Foams. *International Journal of Nanoelectronics & Materials*. Volume 13,95-106. 2020
- **Tarawneh, Mou'ad A.**, Saraireh, Sherin Abdelkader, Chen, Ruey Shan, Ahmad, Sahrim Hj, Al-Tarawni, Musab A. M., Yu, Lih Jiun, Alsobhi, Bahia Othman and Hui, David. "Mechanical reinforcement with enhanced electrical and heat conduction of epoxy resin by polyaniline and graphene nanoplatelets" *Nanotechnology Reviews*, vol. 9, no. 1, 2020, pp. 1550-1561
- Seng Hua Lee Fatimah Muyassarah Abdul Aziz, Siti Norasmah Surip, Khairunnadim Ahmad Sekak, Mohd Khairun Anwar Uyup, **Mou'ad Ahmad Tarawneh**, Seng Hua Lee. Evaluation of wetting, structural and thermal properties of electrospun nanofibers at different pineapple leaf fiber / polyethylene terephthalate ratios. *Maderas: Ciencia y*



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- **Mou'ad A. Tarawneh**, Sherin A. Saraireh, Ruey Shan Chen, Sahrim Hj Ahmad, Musab A.M. Al- Tarawni, Lih Jiun Yu. Gamma irradiation influence on mechanical, thermal and conductivity properties of hybrid carbon nanotubes/montmorillonite nanocomposites, Radiation Physics and Chemistry, Volume 179, 2021, 109168
- Ruey Shan Chen, Mohd Hafizuddin Ab Ghani, Sahrim Ahmad, **Mou'ad A. Tarawneh**, Sinyee Gan, Tensile, thermal degradation and water diffusion behaviour of gamma-radiation induced recycled polymer blend/rice husk composites: Experimental and statistical analysis, Composites Science and Technology, Volume 207, 2021, 108748,

Books and book chapters

- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad. Reinforced Thermoplastic Natural Rubber (TPNR) Composites with Different Types of Carbon Nanotubes (MWNTS), Book Title: Carbon Nanotubes - Synthesis, Characterization, Applications (Chapter 21, Page 443-468). InTech . July 2011, ISBN 978-953-307-497-9.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad. Characterization and Morphology of Modified Multi-walled Carbon Nanotubes filled Thermoplastic Natural Rubber (TPNR) Composite (Chapter 6. Page 117-143), "Book Title: Syntheses and Applications of Carbon Nanotubes and Their Composites ", Edited by Satoru Suzuki , ISBN 978-953-51-1125-2, Hard cover, 537 pages, Publisher: InTech, Chapters published May 09, 2013 under CC BY 3.0 license
- **Mou'ad.A.Tarawneh**, Sahrim Hj.Ahmad, Preparation and Characterizations of Natural Rubber Reinforced with Carbon Nanotubes (CNTs). Book "Natural Rubber Based Composites and Nanocomposites. vol 2". Chapter 17. 2014 (page 488-503)

Patents

- N.A.



CONFERENCES AND PROCEEDINGS

- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya,Rozaidi Rasid, Effect of Ultrasonic Treatment on The Tensile and Impact Properties of Thermoplastic Natural Rubber Nanocomposites Reinforced With Carbon Nanotubes, International Conference Of Nanoscience And Nanotechnology 2008, UITM,18-21 November. Malaysia.
- Mohamed .M .M .Milad, Sahrim Hj. Ahmad, S.Y.Yahya, **Mou'ad.A.Tarawneh** , Mechanical and Magnetic Properties of Thermoplastic Natural Rubber Naocomposites Filled With Barium Ferrit, International Conference of Nanoscience and Nanotechnology 2008, UITM, 18-21 November. Malaysia.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid, The Effect of Ultrasonic Treatment on The Tensile Properties of Thermoplastic Natural Rubber (TPNR) Nanocomposites, 24th regional conference on solid state science and technology 2008 (RCSST 2008), UPM, 30 November-2 December 2008 Malaysia.
- Sahrim Ahmad, A. Aziz Mohamed, Jaafar Abdullah, Hafizal Yazid, **Mou'ad A. Tarawneh**, Charactrization of filler distribution in TPNR composites by X-ray Microtomography technique, 24th regional conference on solid state science and technology 2008 (RCSST 2008), UPM, 30 November-2 December 2008. Malaysia.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya,Rozaidi Rasid, Tensile and Dynamic Mechanical properties of Thermoplastic Natural Rubber Reinforced by Multi-walled Carbon Nanotubes, MULTIPHYSICS 10-12 December 2008, Norway.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid, Tensile and impact properties of thermoplastic natural rubber with different types of nanoclay treated with ultrasonic, 4th International conference on recent advances in materials, Minerals and Enviroment AND 2th Asian Sympsium on Materials and processing (RAMM and ASMP 2009), 1-3 June 2009. Malaysia.



- Mohamed .M .M .Milad, Sahrim Hj. Ahmad, S.Y.Yahya, **Mou'ad.A.Tarawneh**, mechanical and magnetic properties of thermoplastic natural rubber nanocomposites filled with barium ferrite, 4th International conference on recent advances in materials, Minerals and Environment AND 2th Asian Symposium on Materials and processing (RAMM and ASMP 2009), 1-3 June 2009.Malaysia.
- **Mou'ad.A.Tarawneh**, Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid, Improving The Dynamic Mechanical Behavior of Thermoplastic Natural Rubber Nanocomposites With Carbon nanotubes, ICMAT 2009, International Conference on materials for advance Technologies, IUMRS-ICA2009 , Int'l Union of materials research societies International conference in Asia 2009, Singapore, 28 June- 3 July 2009.
- **Mou'ad.A.Tarawneh** , Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid , effect of coupling agent on the tensile properties of TPNR nanocomposites treated with ultrasonic, the 9th postgraduate colloquium faculty of science and technology 24-25 June 2009
- **Mou'ad. A. Tarawneh**, Ing Kong,Sahrim Hj. Ahmad, Rozaidi Rasid, S.Y. Yahya, Lih Jiun Yu, Moayad Husein Flaifel. Magnetic Properties of Thermoplastic Natural Rubber Nanocomposites Reinforced With Carbon Nanotubes. ICCE-17 July 26-August 1, 2009 in Honolulu, Hawaii, USA.
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- **Mou'ad A Tarawneh**, Sahrim Hj Ahmad, Yu Lih Jiun, Radwan Dweiri. Morphology and Mechanical Properties of NiZn ferrite/ Thermoplastic Natural Rubber Composite. Joint International Conference on Nanoscience, Engineering, and Management (BOND21). 19-21 August 2013, Bayview Beach Resort, Penang, Malaysia



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- **Mou'ad A Tarawneh**, Sahrim Hj Ahmad. Morphological and Mechanical Properties of Polylactic acid/ Epoxidised Natural Rubber Reinforced with Carbon Nanotubes. Malaysia Polymer International Conference 2013, 25—26 September 2013, Hotel Equatorial Bangi-Putrajaya, Malaysia.
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TEACHING

Courses Taught-undergraduate

- The science and engineering of materials
- Materials science for engineers
- Nanotechnology
- Solid state materials
- Polymers Science and Technology
- Atomic and molecular physics
- Modern physics
- Advance Modern physics
- Properties of matter
- Classical mechanics
- Thermodynamic
- Mathematical physics
- physics 1 and physics 2
- Mathematic 1 and Mathematic 2

Courses Taught-postgraduate

- Materials science



Mou'ad A. M. Tarawneh C.V.



SKILLS

Languages

- Arabic (Native)
- English (Excellent)
- Malay (Very good)

Computer Programs

- International Driving Computer License