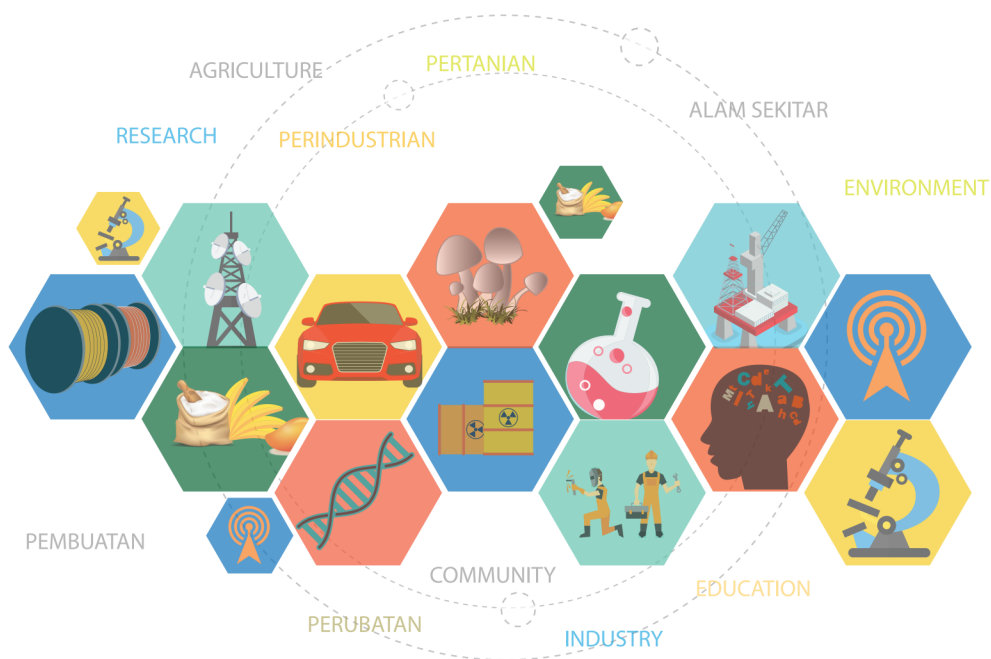




SENARAI PENERBITAN LIST OF PUBLICATION



AGENSI NUKLEAR MALAYSIA, KEMENTERIAN SAINS,
TEKNOLOGI DAN INOVASI (MOSTI)
Ministry of Science, Technology and Innovation (MOSTI)

Bibliography of Journal

- Loo, K. H., Sin, L. T., Bee, S. T., Ratnam, C. T., Tey, J.-Y., Tee, T. T., & A.R. Rahmat. (2017). Current Development of Electron Beam Irradiation of Natural Rubber–Polymer Blends. *Polymer-Plastics Technology and Engineering*.
- Mojulat, W. C., Mohd Rafii Yusop, Mohd Razi Ismail, Abdul Shukor Juraimi, Abdul Rahim Harun, Fahim Ahmed, . . . Md. Abdul Latif. (2017). Analysis of Simple Sequence Repeat Markers Linked to Submergence Tolerance on Newly Developed Rice Lines Derived from MR263 × Swarna-Sub1. *Sains Malaysiana*, 46(4), 521-528.
- Abdul Aziz Ismail, Mazlyfarinan Mohamad, Rozilawati Ahmad, & Ahmad Bazlie Abdul Kadir. (2017). Radiation Dose Obtained from Abdominal Computed Radiography: Comparison between Supine and Prone Positions. *Jurnal Sains Kesihatan Malaysia*, 15(2), 173-178.
- Ahamadreza Ashraf, Elias Saion, Elham Gharibshahi, Halimah Mohamed Kamari, Yap, C. K., Mohd Suhaimi Hamzah, & Md Suhaimi Elias. (2017). Distribution of Trace Elements in Core Marine Sediments of Coastal East Malaysia by Instrumental Neutron Activation Analysis. *Applied Radiation and Isotopes*, 96-105.
- Ahmad Afiq Jumhuri, Dian Nur Elleina Fatanah, Ahmad Husaini Mohamed, Cik Rohaida Che Hak, & Jamil Mohamed Sapari . (2017). Characterization of Cellulose Nanocrystal Isolated from Oil Palm Empty Fruit Bunch Using Formic Acid Hydrolysis. *International Journal of Agriculture, Forestry and Plantation (IJAFP)*.
- Ahmad Nazrul Abd Wahid, Shyful Azizi Abdul Rahman, Abdul Rahim Harun, & Khairuddin Abdul Rahim. (2017). Nitrogen Use Efficiency and ¹³C Isotope Isotope Discrimination in NMR151 and NMR152 Rice Mutant Lines Under Different Water Potentials and Nitrogen Rates. *Jurnal Sains Nuklear Malaysia*, 29(1), 1-12.
- Ahmad Syafiq Ahmad Hazmi, Nik Nurfatmah Nik Fauzi, Zulina Abd. Maurad, Luqman Chuah Abdullah, Min Min Aung, Azizan Ahmad, . . . Syahrina Elliyana Saniman. (2017). Understanding Interinsic Plasticizer in Vegetable Oil-based Polyurethane Elastomer as Enhanced Biomaterial. *Journal Thermal Analytical Calorimetry*.
- Arshad Naji Alhasnawi, C.M.Z. Che Radziah, Ahsan A. Kadhimi, & Anizan Isahak. (2017). Relationship observed between salinity-tolerant callus cell lines and Anatomical Structure of Line 2 (*Oryza sativa* L.) Indica under Salinity Stress. *Biocatalysis and Agricultural Biotechnology*, 367-378.
- Arshad Naji Alhasnawi, Che Radziah Zain, Ahsan A. Khadimi, Anizan Isahak, Azhar Mohamad, & Wan Mohtar Wan Yusoff. (2017). Accumulation of Antioxidants in Rice Callus (*Oryza sativa* L.) Induced by β-glucan and Salt Stress. *American Journal of Stem Cells*, 11(1), 118-125.
- Azhar Azmi, Megat Harun Al Rashid, Shaharudin Sayuti, Shukri Mohd, Khairul Azhar Saderi, & Ishak Mansor. (2017). Enhancement of Images of Closed Open-to-surface Discontinuities in Liquid Penetrant Test Specimen. *Jurnal MSNT* .

- Balaji, A. B., Mohammad Khalid, Ratnam, C. T., Matthews, F. M., & Walvekar, R. (2017). Co-PP/EPDM Blend Optimization Using D-Optimal Design for Medical Applications. *Journal Polymer-Plastics Technology and Engineering*, 216-226.
- Balaji, A. B., Ratnam, C. T., Mohammad Khalid, & Walvekar, R. (2017). Effect of Electron Beam Irradiation on Thermal and Crystallization Behavior PP/EPDM Blend. *Radiation Physics and Chemistry*, 179-189.
- Che Radziah Che Mohd Zain, Arshad Naji Alhasnawi, Ahsan A. Kadhimi, Anizan Isahak, Azhar Mohamad, Mehdi Farshad Ashraf, . . . Wan Mohtar Wan Yusoff. (2017). Development of a Technique for Callus Induction and Plant Regeneration in *Oryza Sativa* L. var. MRQ74 and MR269. *Advance Journal of Food Science and Technology*.
- Choo, T. F., Julie Andrianny Murshidi, Nur Ubaidah Saidin, Paulus, W., & Yusof Abdullah. (2017). Production of Mullite Ceramic Bodies from Kaolin Processing Waste and Aluminum Hydroxide. *Materials Science Forum*, 888, 81-85.
- Cik Rohaida Che Hak, Siti Salwa Zainal Abidin, Nur Ubaidah Saidin, Siti Aishah Ahmad Fuzi, Yusof Abdullah, & Meor Yusof Meor Sulaiman. (2017). The Effects of Electron Beam Irradiation on Structural and Optical Properties of TiO₂ Particles. *Materials Science Forum*, 297-303.
- Dhandhukia, J. P., P. S., Peddi, S., Li, Z., Aluri, S. R., Ju, Y., . . . Liu, S. (2017). Bi-functional Elastin-like Polypeptide Nanoparticles Bind Rapamycin and Integrins, and Suppress Tumor Growth in Vivo. *Bioconjugate Chemistry*.
- Dominic, J. A., Ahmad Zaharin Aris, Wan Nor Azmin Sulaiman, & Wan Zakaria Wan Md Tahir. (2017). Prediction of Sand Mass and Organic Matter Distribution Via in Situ Measured Wet Sediment Bulk Density Profile. *Urban Water Journal*.
- Emilia Rose Jusoh Taib, Luqman Chuah Abdullah, Min Min Aung, Mahiran Basri, Mek Zah Salleh, Sariah Saalah, . . . Chee, C. Y. (2017). Physico-chemical Characterisation of Epoxy Acrylate Resin from *Jatropha* Seed Oil. *Pigment & Resin Technology*.
- Farha Mizana Shamsudin, Yusof Abdullah, Shahidan Radiman, & Nasri A. Hamid. (2017). The Effect of Annealing to the Hardness of Oxide Dispersion Strengthened (ODS) Fe-15Cr-0.3Y₂O₃ Alloy. *Materials Science Forum*, 428-431.
- Fazliana Mohd Saaya, Katsube, T., Xie, Y., Tanaka, K., Fujita, K., & Wang, B. (2017). Research and Development of Radioprotective Agents: A Mini-review. *International Journal of Radiology*, 128-138.
- Hussein, S, Halmi, M.I.E, & Ling, A.P.K. (2017). The Modified Gompertz Model Demonstrates a Variable Growth Rate between Two *Centella Asiatica* Phenotypes. *Journal of Biochemistry, Microbiology and Biotechnology*, 18-20.
- Ismail Sulaiman, Khairuddin Mohamad Kontol, Faizal Azrin Abdul Razalim, & Azzman Jaafar. (2017). Indoor Radon Concentration in Kinta Valley. *Jurnal Sains Nuklear Malaysia*, 29(1), 37-44.
- Kamaruzzaman M.Z, Zainal Abidin I.M, & Hamzah A.R. (2017). Modeling and Simulation for Defect Depth Estimation Using Pulsed Eddy Current Technique. *Communications in Computer and Information Science*.

- Khairiah Yazid, Mohammad Rawi Mohamed Zin, Rafhayudi Jamro, Azraf Azman, & Faridah Mohd Idris. (2017). Evolution of neutron imaging at TRIGA PUSPATI Reactor : A Promising Digital Real-time Imaging for Engineering Research. *Journal of Nuclear and Related Technologies*, 14(1).
- Khairuddin Mohamad Kontol , & Ismail Sulaiman . (2017). Role of Total Activity Concentration in Radiological Impact Assessment in the Disposal of Tenorm Waste from Oil and Gas Industry. *Jurnal Sains Nuklear Malaysia*, 29(1), 13-17.
- Kobayashi, A., Tengku Ahbrizal Farizal Tengku Ahmad, Autsavapromporn, N., Oikawa, M., Homma-Takedaf, S., Furusawa, Y., . . . Konishi, T. (2017). Enhanced DNA Double-strand Break Repair of Microbeam Targeted A549 Lung Carcinoma Cells by Adjacent WI38 Normal Lung Fibroblast Cells Via Bidirectional Signaling. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, 803-805.
- Kok, K. Y., Ng, I. K., Nur Ubaidah Saidin, Choo, T. F., Wee, B. S., & Yusof Abdullah. (2017). The Effects of Substrate Orientation on Galvanic Growth of ZnO Structures. *Materials Science Forum*, 304-308.
- Laoding Hasnimulyati, Mohamed Kamari Halimah, Zakaria Azmi, Abdul Halim Shaari, & Mansor Ishak. (2017). Effects of Gamma Radiation on the Elastic Properties of Thulium Doped Zinc Borotellurite Glass. *Solid State Phenomena, Trans Tech Publications*, 8-12.
- Li, Y., Jing, H., Ilham Mukriz Zainal Abidin , & Yan, B. (2017). A Gradient-Field Pulsed Eddy Current Probe for Evaluation of Hidden Materials Degradation in Conductive Structures Based on Lift-Off Invariance. *Sensors* .
- Li, Y., Ren, S., Yan, B., Ilham Mukriz Zainal Abidin , & Wang, Y. (2017). Imaging of Subsurface Corrosion Using Gradient-Field Pulsed Eddy Current Probes with Uniform Field Excitation. *Sensors*.
- M. Shabanimofrad, M.Y. Rafii, S. Ashkani, M.M.Hanafi, N.A.Adam, A.R. Harun, . . . P. Azizi. (2017). Mapping of QTLs Conferring Resistance in Rice to Brown Planthopper, Nilaparvata Lugens. *The Netherlands Entomological Society Entomologia Experimentalis et Applicata* 162, 60-68.
- M. Z. Umar, V. P. Vavilov, H. Abdullah , & A. K. Ariffin. (2017). Detecting Low-Energy Impact Damages in Carbon-Carbon Composites by Ultrasonic Infrared Thermography. *Russian Journal of Nondestructive Testing*, 530-538.
- M. Z. Umar, V. P. Vavilovb, H. Abdullah, & A. K. Ariffin. (2017). Detecting Low-Energy Impact Damages in Carbon-Carbon Composites by Ultrasonic Infrared Thermography. *Russian Journal of Nondestructive Testing*, 530-538.
- Mohammad Reza Ketabchi, Mohammad Khalid, Theyv, C. R., Walvekar , R., & Luqman Chuah Abdullah. (2017). Sonosynthesis of Microcellulose from Kenaf Fiber: Optimization of Process Parameters. *Journal of Natural Fibers*, 437-449.
- Mohd Amirul Syafiq Mohd Yunos, Nur Khairunnisa Abd Halim, Siti Aslina Hussain, Hamdan Mohamed Yusoff, & Susan Sipaun. (2017). Investigations of Bubble Size, Gas Hold-Up, and Bubble Rise Velocity in Quadrilateral Bubble Column Using High-Speed Camera. *American Journal of Engineering, Technology and Society*, 5-15.

- Mohd Amirul Syafiq Mohd Yunos, Siti Aslina Hussain, Hamdan Mohamed Yusoff, & Susan Sipaun. (2017). Design and Fabrication of Quadrilateral Bubble Column Test Rig for Multiphase Flow Investigations. *Scholars Journal of Engineering and Technology*, 34-43.
- Mohd Amirul Syafiq Mohd Yunos, Zainal Abidin Talib, & Wan Mahmood Mat Yunus. (2017). Free Radical Scavenging Activity of Micropropagated Bacopa Monnieri Linn Ethanolic Extract. *Jundishapur Journal of Natural Pharmaceutical Products*.
- Mohd Fahmi Mohd Yusof, Muhammad Hadzmi Yahya, Muhammad Syazwan Rosnan, Reduan Abdullah, & Ahmad Bazlie Abdul Kadir. (2017). Reproducibility Assessment of Commercial Optically Stimulated Luminescence System in Diagnostic X-ray Beams. *Journal of Radioanalytical and Nuclear Chemistry*.
- Mohd Fitri Abdul Rahman, Hanafi Ithnin, & Lahasen Dahing. (2017). Comparison Elemental Studies of Prompt Gamma Neutron Activation Analysis (PGNAA) Using PHITS and Monte Carlo Simulation (MCNP) Codes. *Materials Science Forum*, 534-537.
- Mohd Yuhyi Mohd Tadza, Nor Syafiqah Mohd Azmi, Roslanzairi Mustapha, Nor Dalilah Desa, & Kamarudin Samuding. (2017). Malaysian Alternative to International Reference Bentonite Buffer in Underground Nuclear Waste Repository. *American Institute of Physics*.
- Mohd Zulmadi Sani, Faiz Ahmad, Mustapha Akil, Zaiton Ahmad, Affrida Abu Hassan, Abdul Rahim Harun, & Mohd Rafii Yusop. (2017). Gamma-Radiation Mutagenesis of Hibiscus Cannabinus L. V36 Variety: Radiosensitivity Study, Phenotypic Characterization and Multivariate Analysis to Explain Variation among Selected M1 Progenies. *Jurnal Sains Nuklear Malaysia*, 55-66.
- Muhammad Taher, Mohamede Zaffar Ali Mohamed Amiroudine, Juliana Md Jaffri, Mohamed Shahreen Amri, Deny Susanti, Shafida Abd Hamid, . . . Farediah Ahmad. (2017). A Lignan with Glucose Uptake Activity in 3T3-L1 Adipocytes from the Stem Bark of Knema Patentinervia. *Pakistan Journal of Pharmaceutical Science*, 1335-1339.
- N. Hasan, M.Y. Rafii, H. Abdul Rahim, S.A. Nusaibah, N. Mazlan, & S. Abdullah. (2017). Genetic Analysis and Identification of SSR Markers Associated with Rice Blast Disease in a BC2F1 Backcross Population. *Genetics and Molecular Research*, 16(1), 1-11.
- Nasri A. Hamid, Zaahidah Atiqah Mohiju, Nor Faizah Jamal, & Yusof Abdullah. (2017). Effect of Low Doses Gamma and Electron Irradiation on Mechanical Strength of Bi₂Sr₂CaCu₂O₈ (Bi-2212) Superconductor Ceramics. *Materials Science Forum*, 45-49.
- Nie, H. J., Azhar Mohamad, Zaiton Abdul Kadir, Wan Safina Wan Abdul, Ibrahim Mahmood, & Hisham Hamza Hussain. (2017). Dose Response for *Auricularia Auricula-Judae* Against. *Malaysian Applied Biology Journal*, 46(1), 71-75.
- Noor Azween Noor Azmy, Ahmad Ashrif A. Bakar, Norhana Arsad, Sarada Idris, Mohmad, A.R., & Abdul Hamid. (2017). Enhancement of ZnO-rGO Nanocomposite Thin Films by Gamma Radiation for E.coli Sensor. *Applied Surface Science*, 1134-1143.
- Noramaliza M. Noor, I. A. Nisbet, M. Hussein, Sarene Chu S, T. Kadnie, & N. Abdullah. (2017). Dosimetry Audits and Intercomparisons in Radiotherapy: A Malaysian Profile. *Radiation Physics and Chemistry*.

- Norasalwa Zakaria, Syed Asraf Wafa, Yii Mei Wo, Sarimah Mahat , & Mohamad Annuar Assadat Husain. (2017). Development of Characterization Protocol for Mixed Liquid Radioactive Waste Classification. *Jurnal Sains Nuklear Malaysia*, 29(1), 18-27.
- Nur Ubaidah Saidin, Choo, T. F., Ying, K. K., Mohd Reusmaazran Yusof, & Ng, I. K. (2017). Fabrication and Characterization of ZnO Nanofibers by Electrospinning. *Materials Science Forum*, 309-313.
- Nurazila Mat Zali, Hafizal Yazid, Megat Harun Al Rashid Megat Ahmad, Irman Abdul Rahman, & Yusof Abdullah. (2017). Effect of Boron Carbide Content on Properties of Thermoplastic Natural Rubber Composite as Thermal Neutron Shielding. *Materials Science Forum*, 179-183.
- Pairu Ibrahim, Wan Manshol Wan Zain, & Keong, C. C. (2017). Safety Evaluation Test on Human for Radiation Pre vulcanised Natural Rubber Latex (RVNRL). *Jurnal Sains Nuklear Malaysia*, 29(1), 28-38.
- R. T., R. R., W. N., & Mek Zah Salleh. (2017). Palm Oil-Based Precursors for Development of Polymeric Delivery System. *Malaysian Journal of Analytical Sciences*, 496 - 511.
- Rabiatul Basria SMN Mydin, Sreekantan, S., Roshasnorlyza Hazan, Mustafa Fadzil Farid Wajidi, & Ishak Mat. (2017). Cellular Homeostasis and Antioxidant Response in Epithelial HT29 Cells on Titania Nanotube Arrays Surface. *Oxidative Medicine and Cellular Longevity*.
- Rafhayudi Jamro, Nikolay Kardjilov, Mohamad Harie Rabir, Mohamed Rawi Mohd Zain, Abdul Aziz Mohamed, NurSazwani Mohd Ali , . . . Mohd Rizal Mamat. (2017). Monte Carlo Simulation for Designing Collimator of the Neutron Radiography Facility in Malaysia. *Physics Procedia*, 361-368.
- Ramarada, S., Chantara T. Ratnam, Mohammad Khalid , Abdullah Luqman Chuah, & Hanson, S. (2017). Improved Crystallinity and Dynamic Mechanical Properties of Reclaimed Waste Tire Rubber/EVA Blends Under the Influence of Electron Beam Irradiation. *Radiation Physics And Chemistry* , 362-370.
- Roshasnorlyza Hazan, Sreekantan, S., & Ishak Mat. (2017). Crystal Structure of TiO₂ Nanotube Arrays Anodized at Different Voltage for Cell-Metal Interaction. *Materials Science Forum* , 262-266.
- Roslanzairi Mostapa, Mohamad Shaiful Md. Yusuff, Widad Fadhullah , & M. I. Syakir. (2017). Hydrogen and Oxygen Stable Isotopes of Palm Oil Mill Effluent in Surface Water and Groundwater Water. *Journal of Physical Science*, 143-159.
- Sarada Idris, Ahmad Ashrif A. Bakar, Ratnam, C. T., Nur Hasiba Kamaruddin, & Sahbudin Shaari. (2017). Influence of Gamma Irradiation on Polymerization of Pyrrole and Glucose Oxidase Immobilization onto Poly (Pyrrole)/Poly (Vinyl Alcohol) matrix. *Applied Surface Science*, 118-128.
- Sariah Saalah , Luqman Chuah Abdullah, Aung, M. M., Mek Zah Salleh , Dayang Radiah Awang Biak, Mahiran Basri , . . . Suhaini Mamat. (2017). Physicochemical Properties of Jatropha Oil-Based Polyol Produced by a Two Steps Method. *Molecules*.
- Shaiful Azuar Mohamad, Nurul Shahnadz Amir Hamzah, Keong, C. Y., Mohd Yusof Hamzah, Rusli Ibrahim, Khairuddin Abd Rahim, & Wan Mohtar Wan Yusoff. (2017). Screening and Characterization of Endopolysaccharide from Pleurotus Pulmonarius in Submerged Culture Fermentation. *Jurnal Sains Nuklear Malaysia*, 1-8.

- Siti Salwa Zainal Abidin, Meor Yusoff Meor Sulaiman, Paulus, W., Ahmad Khairulikram Zahari, Khaironie Mohd Takip, & Yusof Abdullah. (2017). Structural and Surface Morphology of ZnO. *Materials Science Forum*, 344-347.
- Valach A. Velintine, Wee, B. S., Chin, S. F., & Kok, K. Y. (2017). Transformation of Zinc Oxide Nanoparticles under Environmentally Relevant Conditions: Influence of pH and Ionic Strength. *Transactions on Science and Technology*, 123-136.
- Y. Li, X. Zhang, B. Yan, W. Li, & I.Z. Abidin. (2017). Dependency of Pulsed Remote Field Eddy Current Inspection of Subsurface Corrosion in Ferromagnetic Double-Casing Pipes on Parameters of Excitation Current. *Electromagnetic Nondestructive Evaluation*, 220-227.
- Yahaya Musa, Suhairul Hashim, David A. Bradley, Muhammad Khalis A. Karim, & Asmaliza Hashim. (2017). Reproducibility Assessment of Commercial Optically Stimulated Luminescence System in Diagnostic X-ray Beams. *Journal of Radioanalytical and Nuclear Chemistry*.
- Yusof Abdullah, Anati Syahirah Hedzir, Nurul Fadzlin Hasbullah, Norasmahan Muridan, Che Rohaida Che Hak, & Sarimah Mahat. (2017). Radiation Damage Study of Electrical Properties in GaN LEDs Diode after Electron Irradiation. *Materials Science Forum*, 348-352.
- Zainul Amiruddin Zakaria, Farah Hidayah Kamisan, Maizatul Hasyima Omar, Nur Diyana Mahmood, Fezah Othman, Siti Selina Abdul Hamid, & Muhammad Nazrul Hakim Abdullah. (2017). Methanol extract of *Dicranopteris Linearis* L. leaves Impedes Acetaminophen-induced Liver Intoxication Partly by Enhancing the Endogenous Antioxidant System. *BMC Complementary and Alternative Medicine*, 271.
- Zal U'yun Wan Mahmood, Norfaizal Mohamad, & Nur Nazirah Johari. (2017). Bioaccumulation Trends of Cs-134 and Cd-109 in the Asian Tiger Shrimp *Penaeus Monodon* via Waterborne Exposure Pathway. *Jurnal Sains Nuklear Malaysia*, 60-69.