TS. DR. MOHD SUKHAIRI BIN MAT RASAT (00800A)
PENSYARAH UNIVERSITI (TETAP)
FACULTY OF EARTH SCIENCE
UNIVERSITI MALAYSIA KELANTAN KAMPUS JELI
KAMPUS JELI, BEG BERKUNCI NO.100
JELI

Email: sukhairi@umk.edu.my
Tel:

Scopus ID: **54941124500**
Google Scholar: **bk7EyM8AAAAJ**
WOS: **13558321**

A. PERSONAL DETAILS

UMK JOIN DATE	09-Sep-2012
DATE OF APPOINTMENT FOR CURRENT POSITION	09-Sep-2012
DATE OF CONFIRMATION FOR CURRENT POSITION	25-Oct-2016
EDUCATION(S)	• **()** INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM • **(2022) UNIVERSITI MALAYSIA KELANTAN** IJAZAH DOKTOR FALSAFAH SAINS KELESTARIAN • **(2011) UNIVERSITI MALAYSIA SABAH** IJAZAH SARJANA SAINS PERHUTANAN BIO KOMPOSIT • **(2009) UNIVERSITI MALAYSIA SABAH** Sains Perhutanan Teknologi & Bioindustri Serat Kayu • **(2002) KOLEJ MELAYU KUALA KANGSAR** SPM
GROUP OF EXPERTISE	
AWARD(S)	• Award Name: **Anugerah Gemilang UMK Tahun 2015 (Kategori Penerbitan) (2016)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Perkhidmatan Cemerlang 2013 (2014)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Gemilang UMK-Penyelidikan & Inovasi Muda Tahun 2013 (2014)** Awarded by: Universiti Malaysia Kelantan
WORKING EXPERIENCE(S)	• Enumerator | FRIM 01-Apr-2007 - 01-Jul-2007 • Enumerator | UMS 01-Jan-2008 - 01-Jun-2008 • Pembantu Penyelidik | UMS 01-Jul-2008 - 01-Jun-2009 • Pegawai Penyelidik | UMS 01-Jul-2009 - 01-Jun-2011 • Pensyarah Sambilan Sepenuh Masa | UiTM 01-Jul-2011 - 01-Aug-2012 • Pensyarah | UMK 01-Sep-2012 - 01-Nov-2019 • Pensyarah Kanan | UMK 01-Dec-2019 - 01-Oct-2022
PROFESSIONAL MEMBERSHIP(S)	• LEMBAGA TEKNOLOGIS MALAYSIA | MEMBER | NATIONAL 01-Jul-2025 - 01-Jul-2026

B. TEACHING-LEARNING ACTIVITIES

COURSES TAUGHT	• EFT1023 - BIODIVERSITY • EFT1103 - BASIC PHYSICS • EFT13203 - EARTH CAMP • EFT2143 - RESEARCH METHODOLOGY AND SCIENTIFIC WRITING • EFT4082 - STUDENT IN ENTERPRISE PROGRAMME • EKE2053 - ENERGY AND NATURAL RESOURCES • EKE4153 - GLOBAL RESOURCES AND CLIMATE CHANGES • EKT4093 - ECONOMY TRADE AND ENVIRONMENT • ENE22403 - BIOMASS ENERGY FROM NATURAL RESOURCES • ENE2263 - ANGIOSPERM BIOLOGY • ENE3223 - ETHNOBIOLOGY • ENE3303 - INVASIVE SPECIES MANAGEMENT • ENE4153 - ENERGY RESOURCES • ENT1233 - BIODIVERSITY • ENT2083 - NATURAL RESOURCES ECOLOGY • ENT3193 - RESEARCH PROJECT I • ENT4153 - ENERGY RESOURCES • ENT4183 - ENVIRONMENTAL ECONOMICS • ENT4203 - RESEARCH PROJECT II • ENT4228 - INDUSTRIAL TRAINING • ENT4388 - INDUSTRIAL TRAINING II • EVE21303 - GLOBAL CLIMATE CHANGE • EVT22503 - CARBON ACCOUNTING AND REPORTING • EWE3223 - FOREST MENSURATION AND SURVEY • EWT2013 - WOOD PHYSICAL AND MECHANICAL PROPERTIES • EWT2083 - DENDROLOGY • EWT2093 - SILVICULTURE • EWT3203 - FOREST RESOURCES BIOENERGY • FPE3213 - INDUSTRIAL ECOLOGY

C. RESEARCH AND DEVELOPMENT

JOURNAL(S)	1. Muhamad Azahar Abas, Shukri, A.S.M., Mohamad Faiz Mohd Amin, Mohd Sukhairi Mat Rasat, Noor Janatun Naim Jemali. (2025-12). A study of knowledge, awareness and eating habits of Orang Asli children at Sg Rual primary school, Jeli, Kelantan, Malaysia. Multidisciplinary Reviews , Vol. 8 (12) . https://doi.org/10.31893/multirev.2025344 2. Mohamad Faiz Mohd Amin, Nur Najwa Najihah Hairol Zaman, Muda, Khalida, Mohd Sukhairi Mat Rasat, Rahman, Mokhlesur. (2025-12). Assessment of physicochemical and microbial water quality in rivers of Jeli, Kelantan, Malaysia. Journal of Tropical Resources and Sustainable Science , Vol. 13(2) , pp. 365-372. https://doi.org/10.47253/jtrss.v13i2.1675 3. Siti Noor Balqis Bukhari, Mohamad Faiz Mohd Amin, Muhamad Azahar Abas, Muhammad Rasidi Mohamad Jajuli, Roziela Hanim Alamjuri, Janshah Moktar, Ag Ahmad Mohd Yunus, Rosdi Koter, Dasrul Iskandar Darus, Mohd Sukhairi Mat Rasat. (2025-12). Comparative analysis of carbon stock in Hevea brasiliensis using different allometric equations. Journal of Tropical Resources and Sustainable Science , Vol. 13 (2) , pp. 358 - 364. https://doi.org/10.47253/jtrss.v13i2.1720 4. Muhamad Azahar Abas, Mohd Sukhairi Mat Rasat, Amal Najihah Muhamad Nor, Ta Wee Seow, Goh, Kai Chen. (2024-10). A Potential Study of Waste-to-Wealth Program in Delta Tumpat, Kelantan, Malaysia. , Vol. 131 . https://doi.org/10.1051/bioconf/202413103011 5. Ravi, R., Rajendran, D., Oh, W.-D., Mat Rasat M.S., Hamzah, Z, Ishak, I.H., Mohd Amin, M.F.. (2020-12). The potential use of Azolla pinnata as an alternative bio-insecticide. Scientific Reports , Vol. 10 (1) . https://doi.org/10.1038/s41598-020-75054-0 6. Sobri, S.A., Whitehead, D., Mohamed, M, Mohamed, J. J., Amini M.H.M., Hermawan, A., Rasat, M.S.M., Sofi, A. Z. M., Ismail, W.O.A.S.W., Norizan, M.N.. (2020-11). Augmentation of the delamination factor in drilling of carbon fibre-reinforced polymer composites (CFRP). Polymers , Vol. 12 (11) , pp. 1-14. https://doi.org/10.3390/polym12112461 7. Rasat M.S.M., Karim S.A., Amin M.F.M., Hashim R., Jamaludin, M. H., Abdullah, N. H., Noor A.M., Ahmad M I, Hasbollah H.R.. (2020). Characterization on morphological and bonding behavior of torrefied biochar from oil palm empty fruit bunch. International Journal of Advanced Science and Technology , Vol. 29(7) , pp. 383-387. 8. Ravindran, D.R., Bharathithasan, M., Ramaiah, P., Rasat M.S.M., Rajendran, D., Srikumar, S., Ishak, I.H., Said, A. R., Ravi, R., Mohd Amin, M.F.. (2020). Chemical Composition and Larvicidal Activity of Flower Extracts from Clitoria ternatea against Aedes (Diptera: Culicidae). Journal of Chemistry , Vol. 2020 . https://doi.org/10.1155/2020/3837207 9. Siti Noor Balqis Bukhari, Nur Aishah Izzati Abdullah, Mohamad Faiz Mohd Amin, Janshah Moktar, Ag Ahmad Mohd Yunus, Rosdi Koter, Dasrul Iskandar Darus, Roziela Hanim Alamjuri, Musri Ismenyah, Mohd Sukhairi Mat Rasat. (2025-01). Evaluating Aboveground Biomass and Carbon Stock of Leucaena leucocephala in Bandar Jeli, Kelantan. Borneo Journal of Sciences and Technology (BJoST) , Vol. 7 (1) , pp. 105 - 112. https://doi.org/https://journal.uts.edu.my/Home/ArticleDownload?articleId=BJOST070111 10. Mohamad Faiz Mohd Amin, Mohd Sukhairi Mat Rasat, Muhammad Iqbal Ahmad. (2023). Applicability of Organic Polymer for Pharmaceutical Removal. Borneo Journal of Sciences and Technology (BJoST) , Vol. 5(2) , pp. 79-83. https://doi.org/10.35370/bjost.2023.5.2-08 11. Mohd Sukhairi Mat Rasat, Mohamad Faiz Mohd Amin, Razak Wahab, Muhammad Iqbal Ahmad, An'amt Mohamed Noor, Janshah Mokhtar, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid. (2023). Influence of Torrefaction Parameters on Elemental Properties of Torrefied Oil Palm Empty Fruit Bunch Biochar. Borneo Journal of Sciences and Technology (BJoST) , Vol. 5(1) , pp. 84-89. https://doi.org/10.35370/bjost.2023.5.1-10 12. Mohd Sukhairi Mat Rasat, Mohamad Faiz Mohd Amin, Razak Wahab, Muhammad Iqbal Ahmad, An'amt Mohamed Noor, Ag Ahmad Mohd Yunus, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid. (2023). Torrefaction on agricultural residues empty fruit bunch: Effect of torrefaction processing factors on thermal

	properties of torrefied empty fruit bunch biochar. Journal of Tropical Resources and Sustainable Science , Vol. 11 (1) , pp. 10-14. https://doi.org/10.47253/jtrss.v11i1.1087 13. Rasat M.S.M., Mohd Amin, M.A., Razak Wahab, Ahmad M I, M.N. An'amt, Ag Ahmad Mohd Yunus, Janshah Moktar. (2022). Effect of torrefaction process on crystallinity index properties of empty fruit bunch¿s biochar. Agriculture Reports , Vol. 1(2) , pp. 8 - 11. 14. Razak Wahab, Mohd Sukhairi Mat Rasat, Mohamad Saiful Sulaiman, Muhammad Haziq Razak, Nasihah Mokhtar, Taharah Edin. (2021-01-31). Characterization of oil palm fronds panel at different conditions and positions with formaldehyde adhesive. Borneo Journal of Sciences & Technology , Vol. 3(1) , pp. 66 - 76.
PROCEEDING(S)	1. Mohd Sukhairi Mat Rasat, Mohamad Faiz Mohd Amin, Bukhari S.N.B., Muhammad Iqbal Ahmad, An'amt Mohamed Noor, Kamarul Ariffin Bin Kambali @ Hambali, Yunus A.A.M., Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid, Rosman N., Zaki J.A., Latif N.H.A.. (2025-02-25). Effect on chemical properties of small diameter Leucaena leucocephala wood via torrefaction processing. In AIP Conference Proceedings . American Institute of Physics. https://doi.org/10.1063/5.0259284 2. Shahrim, Nurul Syazwina, Khadafi, Nur Insyirah, Muhammad Iqbal Ahmad, Muda, Khalida, Mohd Amin, Mohamad Asyraf, Mohd Sukhairi Mat Rasat, Rahman, Mokhlesur, Mohamad Faiz Mohd Amin. (2024-01-15). The potential of oil palm empty fruit bunch (OPEFB) in the removal of paracetamol from water. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/202413105007 3. Nur Kyariatul Syafinie Abdul Majid, Raj S., Noor Janatun Naim Jemali, Mohd Sukhairi Mat Rasat, Nazahatul Anis Amaludin. (2024). Tree risk and hazard assessment at UMK-Tropical Rainforest Research Centre (UMK-TRaCe), Pulau Banding, Perak, Malaysia. In IOP Conference Series: Earth and Environmental Science . Institute of Physics. https://doi.org/doi:10.1088/1755-1315/1433/1/012016 4. Abdullah, Norerliana Syafika, Al-Hafiz Mat Razii, Muhammad, Abdul Aziz, Ahamd Adham, Baharom, Nur Izati, Noor Janatun Naim Jemali, Mohd Sukhairi Mat Rasat, Amal Najihah Muhamad Nor, Nazahatul Anis Amaludin. (2024). Floristic Composition and Tree Species Diversity with DBH ¿ 5 cm at Gunung Stong State Park (GSSP), Kelantan, Peninsular Malaysia. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/202413101010 5. Muhammad Iqbal Ahmad, Shaarany Chelliah, Mohamad Faiz Mohd Amin, Mohd Sukhairi Mat Rasat, Ahmad Zul Izzi Fauzi. (2024). Finite Element Analysis of a Robotic Arm for Electronic Devices Transportation: Design and Simulation. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/202413105001 6. Mohd Sukhairi Mat Rasat, Mohamad Faiz Mohd Amin, Muhammad Iqbal Ahmad, An'amt Mohamed Noor, Janshah Moktar, Ag Ahmad Mohd Yunus, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid, Nazahatul Anis Amaludin, Siti Noor Balqis Bukhari, Dasrul Iskandar Darus, Muhamad Azahar Abas, Muhammad Aizat Abd Ghani, Mohamad Asyraf Mohd Amin. (2024). Impact of pelletisation on torrefied oil palm empty fruit bunch biochar. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/202413105014 7. Mohd Sukhairi Mat Rasat, Mohamad Faiz Mohd Amin, Muhammad Iqbal Ahmad, An'amt Mohamed Noor, Janshah Moktar, Ag Ahmad Mohd Yunus, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid, Nazahatul Anis Amaludin, Siti Noor Balqis Bukhari, Dasrul Iskandar Darus, Roziela Hanim Alamjuri. (2024). Bonding Properties and Morphological Characteristics of Torrefied Pelletised Biochar from Palm Oil Industry¿s Residues Empty Fruit Bunch. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/202413105006 8. Nazahatul Anis Amaludin, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid, Mohd Sukhairi Mat Rasat, Zulhazman Hamzah, Mohd Rafi Yaacob, Muhammad Najmi Mohd Masri. (2024). The Role of The Malaysian Nature Society Kelantan Branch in Raising Awareness of Mangrove Tree Conservation at Delta Kelantan, Tumpat, Kelantan. In E-PROCEEDING SULAM INNOVATE SHOWCASE & SYMPOSIUM (SUISS 2024) COMMUNITY PROJECT , pp. 78 - 85. UMK Press. 9. Bukhari, S. N. B., Ahmad M I, Muda, K., Rasat, M.S.M., Amin M.F.M.. (2023). The Prospect of Biochar by Oil Palm Empty Fruit Bunch (OPEFB) in the Removal of Contaminants Emerging Concern (CECs). In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/20237305001 10. Ahmad M I, Zuhairi, A. Z., Amin M.F.M., Rasat, M.S.M., Mahmood, M. M.. (2023). Elucidating on Time and Temperature Effects on Torrified Moldy Bread. In BIO Web of Conferences . EDP Sciences. https://doi.org/10.1051/bioconf/20237305012 11. Rasat, M.S.M., Amin M.F.M., Wahab, R., Ahmad M I, Mohamed Noor, A., Moktar, J., JemaliI N.J.N, Majid S.A., Rosman, N., Zaki, J. A., Latiff, N, H. A.. (2023). Effects of Torrefaction Process on Chemical Properties of Small Diameter Acacia mangium Wood. In BIO Web of Conferences . EDP Science. https://doi.org/10.1051/bioconf/20237305004 12. Shukri, A, S. M., Nor, A.N.M., Amin M.F.M., Rasat M.S.M., Abas, M.A.. (2023). Greening Spirulina Value Chain Towards Environmental Sustainability in Malaysia. In Bio Web of Conference , pp. 1-9. EDP Scieces. https://doi.org/10.1051/bioconf/20237303005 13. Ahmad M I, Rasat M.S.M., Amin M.F.M., Elham P., Lateh H., Amin M.F.M.. (2022). Toward a Full Exploitation of IoT in Smart Cities: A Review of IoT Anomaly Detection Techniques. In AIP Conference Proceedings . American Institute of Physics Inc.. https://doi.org/10.1063/5.0078641 14. Neemisha, G., Amin M.F.M., Rasat M.S.M., Ahmad M I, Hassan H.. (2022). Removal of Nonsteroidal Anti-Inflammatory Drugs (NSAIDs) from Water Using Empty Fruit Bunch (EFB) Based Bio sorbent. In IOP Conference Series: Earth and Environmental Science , pp. 1-7. Institute of Physics. https://doi.org/10.1088/1755-1315/1102/1/012015 15. Abdullah, N. H., Mokhtar, W. N. A. W., Razab, M. K. A. A., Noor A.M., Zaudin N.A.C., Rasat, M.S.M., Amin M.F.M., Ismardi, A. (2022). Effect of cellulose nanocrystals (CNC) on thermal properties of polyvinyl alcohol (PVA)/CNC biocomposites. In AIP Conference Proceedings . American Institute of Physics Inc.. https://doi.org/10.1063/5.0078572 16. Amin M.F.M., Rasat M.S.M., Ahmad M I, Ali, Nur Shahidah Aftar, Muda, Khalida, Zaidi, Nur Syamimi, Ismail, Shahrul, Shahimin, Mohd Faidz Mohamad, Amin, Mohamad Asyraf Mohd, Salam, Mohammed Abdus. (2022). Natural-based polymers for wastewater treatment. In AIP Conference Proceedings . American Institute of Physics Inc.. https://doi.org/10.1063/5.0078528 17. Ahmad M I, Rasat M.S.M., Amin M.F.M., Elham P., Lateh H., Amin M.A.M.. (2022). Torrefaction of empty fruit bunches (EFB) materials in modified microwave scale reactor. In AIP Conference Proceedings . American Institute of Physics Inc.. https://doi.org/10.1063/5.0078641 18. Zuki, Nurul Ainaa Md, Mohd Amin, M.A., Rasat M.S.M., Ahmad M I, Hussin, Aimi Alina, Kamaroddin, Mohd Farizal, Amin, Mohamad Asyraf Mohd, Salam, Mohammed Abdus. (2022). Effects of BG11, SKM and MKM culture media on optical density of Spirulina platentis cultivation. In AIP Conference Proceedings . American Institute of Physics Inc.. https://doi.org/10.1063/5.0078523

	19. Rasat M.S.M., Amin M.F.M., Ahmad M I, Noor A.M., Sobri, S.A., Hermawan, A., Amini H.M., Geng, B.J., Amin M. A.M., Chotikhan A.. (2021-09). Comparison of Chemical Compositions between Two Fast Growing Species: Acacia mangium and Leucaena leucochephala. In IOP Conference Series: Earth and Environmental Science , pp. 1-7. IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/842/1/012079 20. Mohamad Faiz Mohd Amin, Rasat M.S.M., Ahmad M I, Aftar Ali M. S., Muda K., Zaidi N. S., Ismail S., Mohamad Shahimin M. F., Mohd Amin M. A., Salam M. A.. (2021-09). Potential of oil palm trunk starch as flocculant for contaminant of emerging compound removal. In IOP Conference Series: Earth and Environmental Science . https://doi.org/10.1088/1755-1315/842/1/012013 21. Rahman W.M.N.W.A., Yunus N.Y., Sa'Ad M.F., Amin M.F.M., Mohamad M.A.N., Chotikhan A., Ahmad M I, Rasat M.S.M.. (2021-09). Evaluation on mechanical properties of plywood from two fast growing species: Neolamarckia cadamba and Paraserianthes falcataria. In IOP Conference Series: Earth and Environmental Science . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/842/1/012074 22. Ahmad M I, Rasat, M.S.M., Amin M.F.M., Elham P., Abas, M.A., Lateh H., Amin M.A.M.. (2021-09). Torrefaction of Empty Fruit Bunch (EFB) fibres adopted in modified microwave. In IOP Conference Series: Earth and Environmental Science , pp. 1 - 7. IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/842/1/012012 23. Mohd Zin F.A., Mohamed Noor A., Mohd Nasri W.N.W., Rosli N.N., Buniamin N.A., Abd Razab M.K.A., Rasat M.S. M., Abdullah, N. H., Mohd Amin, M.F.. (2020-12-28). Synthesis of Sodium Alginate Graphene Oxide Thin Film for Adsorption Application. In International Conference on Science and Technology 2020, ICoST 2020 . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/596/1/012020 24. Ravi, R., Ishak, I.H., Amin M.F.M., Hamzah, Z, Rasat, M.S.M., Salam, M.A.. (2020-12-28). AgNPs-Azolla Pinnata Extract As Larvicidal against Aedes Aegypti (Diptera: Culicidae). In International Conference on Science and Technology 2020, ICoST 2020 . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/596/1/012065 25. Samsudin M.F., Mohd Amin, M.F., Syed Omar S.A., Mat Rasat M.S., Salam M.A.. (2020-09-22). Analysis of Water Stress Index (WSI) for District Surrounding Ulu Sat Forest Reserve, Kelantan, Malaysia. In 2nd International Conference on Tropical Resources and Sustainable Sciences, CTReSS 2020 . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/549/1/012015 26. Rasat M.S.M., Ab Karim, S.S., Mohd Amin, M.F., Jamaludin, M. H., Abdullah, N. H., Noor A.M., Ahmad M I, Elham, P., Abdul Razab, M.K.A., Mohd Amin, M.A., Syed Omar, S.A.. (2020-09). Torrefaction's Optimization of Multiple Responses Analysis on Torrefied Biochar from Oil Palm Empty Fruit Bunch. In 2nd International Conference on Tropical Resources and Sustainable Sciences, CTReSS 2020 . IOP Publishing Ltd. https://doi.org/0.1088/1755-1315/549/1/012067 27. Abdullah, N. H., Mohamed Noor, A., Mat Rasat M.S., Mamat, S., Mohamad, M., Mohd Shohaimi, N.A., Ab Halim, A.Z., Mohd Shukri, N., Abdul Razab, M.K.A., Mohd Amin, M.F.. (2020). Preparation and characterization of calcium hydroxyphosphate (Hydroxyapatite) from tilapia fish bones and scales via calcination method. In 3rd International Conference on Advanced Materials Characterization Techniques, AMCT 2019 , pp. 596-601. Trans Tech Publications Ltd. https://doi.org/10.4028/www.scientific.net/MSF.1010.596
BOOK(S)	
CHAPTER(S)	1. Mohamad Faiz Mohd Amin, Noor Janatun Naim Jemali, Mohd Sukhairi Mat Rasat, Nazmi Ma¿Som, Mohd Afiq Abdul Kahar, Nur Kyariatul Syafinie Abdul Majid. (2025-10). Overview of Sg. Rengil and Sg. Brok Water Quality Status In Lojing Highlands, Kelantan. In 34 Siri Kepelbagaian Biologi Hutan- Pergunungan Lojing, Hutan Simpan Lojing Kelantan Pengurusan Hutan, Sosioekonomi Dan Kepelbagaian Biologi (pp. 152-159). Jabatan Perhutanan Semenanjung Malaysia. 2. Razak Wahab, Mohd Sukhairi Mat Rasat, Norashikin Fauzi, Mohamad Saiful Sulaiman, Ros Syazmini Mohd Ghani, Muhammad Haziq Razak. (2022). Processing and Properties of Oil Palm Fronds Composite Boards from Elaeis guineensis. In IntechOpen Book (pp. 1-30). IntechOpen. https://doi.org/10.5772/intechopen.98222 3. Razak Wahab, Rasat M.S.M., Rashidah Kamarulzaman, Mohamad Saiful Sulaiman, Sofiyah Mohd Razali, Taharah Edin, Nasihah Mokhtar. (2022). Microstructure, Physical and Strength Properties of Oil Palm Fronds Composite Boards from Elaeis guineensis. In Oil Palm Biomass for Composite Panels - Fundamentals, Processing, and Applications (pp. 179 - 190). Elsevier.
OTHER(S)	1. Nazahatul Anis Amaludin, Zulhazman Hamzah, Aweng Eh Rak, Muhammad Najmi Mohd Masri, Noor Janatun Naim Jemali, Nur Kyariatul Syafinie Abdul Majid, Mohd Sukhairi Mat Rasat. (2025-12). An environmental education approach to nurture beach cleaning habits among Nature School Clubs. Umk Press. 2. Nurul Syazana Abdul Halim, Nor Sayzwani Sukri, Nursufiah Sulaiman, Jayaraj Vijaya Kumaran, Farah Khaliz Kedri, Mohd Sukhairi Mat Rasat, Noor Janatun Naim Jemali. (2024-12). Buletin FSB Edisi Jul-Nov 2024. Penerbit UMK. 3. Nurul Syazana Abdul Halim, Nor Sayzwani Sukri, Hamzah Hussin, Nursufiah Sulaiman, Mohd Sukhairi Mat Rasat, Noor Janatun Naim Jemali, Jayaraj Vijaya Kumaran, Farah Khaliz Kedri. (2024). Buletin FSB Edisi Jan-Jun 2024. Penerbit UMK. 4. Mohd Sukhairi Mat Rasat, Mohd Syakir Sulaiman. (2023). FSB Global Outreach: International Mobility for Discovering, Networking and Linkage. Fakulti Sains Bumi.
	1. ASSESSMENT OF CONSERVATION VALUE FOR ECOTOURISM RESOURCES AT TAMAN NEGARA KUALA KOH, GUA MUSANG, KELANTAN. | MEMBER | SGJP | 2017 2. AUGMENTATION OF THE DELAMINATION FACTOR IN DRILLING OF CARBON FIBRE REINFORCED POLYMER (CFRP) COMPOSITES | MEMBER | SGJP | 2017 3. CHARACTERIZATION OF LEUCAENA LEUCOCEPHALA AND ACACIA MANGIUM SPECIES AS FUEL PELLETS BIOMASS FOR ENERGY SOURCES | HEAD | FRGS | 2013 4. CHARACTERIZATION OF MOLDY BREAD AND TUBER PEEL WASTES FOR SOLID BIOFUEL PRODUCTION | MEMBER | UMK-FUND | 2021 5. DEVELOPMENT OF TILAPIA POND SMART WATER QUALITY MONITORING SYSTEM BASED ON INTERNET OF THINGS (LOT) | MEMBER | SGJP | 2017

RESEARCH(S)	6. ENHANCED ANAEROBIC AND AEROBIC BIOGRANULATION SYSTEM FOR TREATING PALM OIL MILL EFFLUENT: DEVELOPMENT AND CHARACTERIZATION OF THE NEWLY DEVELOPED NATURAL COAGULANT SUITABLE FOR THE PRE-TREATMENT OF POME | MEMBER | UMK-MATCH | 2021 7. EXTRACTION OF NANOCELLULOSE FROM AGRICULTURAL WASTE DEVELOPMENT OF ORGANIC BIODEGRADABLE PLACTIC | MEMBER | SGPPU | 2015 8. FILLING AND CAPPING MACHINE OF MULTIPURPOSE SEASONING (PERENCAH SERBAGUNA) | HEAD | PPRN | 2017 9. FUNDAMENTAL STUDY OF SCHIZOSTACHYUM BRACHYLADUM AND BAMBUSA VULGARIS ON CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND CELL WALL STRUCTURE | MEMBER | FRGS | 2013 10. GERAN PEMBANGUN MODUL SOFTSKILL BAGI BWI PLKK FTC | MEMBER | GRANT(I/A) | 2023 11. NEW ALLOMETRIC MODELS OF GROUND BIOMASS AND CARBON STOCK OF PERMANENT FOREST RESERVE IN KELANTAN USING REMOTE SENSING DATA | MEMBER | FRGS | 2013 12. OPTIMISATION AND CHARACTERISATION OF MULTIPLE RESPONSES ANALYSIS ON TORREFIED BIOCHAR FROM OIL PALM RESIDUE AS SOLID FUEL | HEAD | UMK-FUND | 2022 13. OPTIMISATION AND CHARACTERIZATION OF MULTIPLE RESPONSES ANALYSIS ON TORREFIED BIOCHAR FROM OIL PALM RESIDUE AS SOLID FUEL | HEAD | UMK-FUND | 2022 14. PROGRAM SUPERFOOD SPIRULINA: LANGKAH LESTARI UNTUK MENGATASI MALNUTRISI KOMUNITI | MEMBER | MOF | 2020 15. PEMBANGUNAN EKOSISTEM PEMPROSESAN TOTAL MIXED RATION UNTUK PENTERNAKAN RUMINAN (E-RUMINAN) | MEMBER | GRANT(I/A) | 2023 16. PERFORMANCE STUDY OF SMALL SCALE MOULD STICK MACHINE FOR FISH CARCKER PRODUCTION | HEAD | SGPL-MYRA | 2016 17. PORTABLE ROTI JOHN' MULTITASKING MACHINE | MEMBER | PPRN | 2017 18. PROGRAM SUPERFOOD SPIRULINA: LANGKAH LESTARI UNTUK MENGATASI MALNUTRISI KOMUNITI | MEMBER | MOF | 2022
SUPERVISION	• **IMPROVING CARBON STOCK ESTIMATION IN RUBBER PLANTATIONS THROUGH SPECIES-SPECIFIC CARBON FRACTION DETERMINATION OF HEVEA BRASILIENSIS** | MAIN SUPERVISOR FOR A MASTER'S STUDENT
RESEARCH AWARD (S)	• Product Name: SOY GROWTH BOOSTER- A HEALTHY AND ECONOMICAL FISH FEED FOR FRESHWATER FISH Award: GOLD Role: Member Exhibition Name: MTE • Product Name: Waste to wealth: A novel biodegradable composites from agriculture waste for drug delivery Award: GOLD Role: Member Exhibition Name: Carnival of Research and Innovation (CRI2021) • Product Name: Waste to wealth: A novel biodegradable composites from agriculture waste for drug delivery Award: GOLD Role: Member Exhibition Name: Virtual Innovation Competition 2021 • Product Name: Waste to wealth: A novel biodegradable composites from agriculture waste for drug delivery Award: SPECIAL Role: Member Exhibition Name: Virtual Innovation Competition 2021 • Product Name: SOY GROWTH BOOSTER- A HEALTHY AND ECONOMICAL FISH FEED FOR FRESHWATER FISH Award: SPECIAL Role: Member Exhibition Name: MTE • Product Name: SAGA-GIS: An alternative technique for landslide observation Award: SILVER Role: Member Exhibition Name: Pre-University Matriculation Innovation Competition (PIITRAM) • Product Name: Earth Camp: A platform for empowering and engaging student¿s compentencies Award: BRONZE Role: Member Exhibition Name: International Teaching Enhancement & Learning Innovation Carnival (i-TeLiC)

D. CONSULTATION

CONSULTATION(S)	

E. COMMUNITY SERVICES

COMMUNITY SERVICES	