

ACADEMIC CURRICULUM VITAE

1. Name - Surname: Youssef Kassem

2. Title: Assoc. Prof. Dr.

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Mechanical Engineering	Near East University	2009
Master's	Mechanical Engineering	Near East University	2011
PhD	Mechanical Engineering	Near East University	2017

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s):

Master's Thesis Title: Determination Of The Aerodynamic Parameters Of The Airfoils For A Wind Car

Thesis Advisor: Assist. Prof. Dr. Hüseyin Çamur

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):

PhD Thesis Title: An Experimental And Numerical Investigation Of Some Thermo-Physical Properties Of Waste Vegetable Oil Biodiesel At Various Temperatures

Thesis Advisor: Assist. Prof. Dr. Hüseyin Çamur

5. Academic Titles:

Date of Assistant Professorship: 17/08/2018

Date of Associate Professorsorship: 22/12/2020

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

- Suliman, M. (2018). Cold Flow Properties Analysis of Waste Cooking oil Biodiesel Blended with Four Different petrol -Diesel Using Computer -Aided Cooling Curve Analysis. **Completed**
- Al Zoubi, R. (2019). Rooftop Building Renewable Power System At Three Regions in North Cyprus. **Completed**

- Shama, H., (2019). Analysis of Different Combination of Meteorological Wind Speed with Different Predictive Tool's A Case Study. **Completed**
- Al Falah ,M. (2019). Modeling Of Wind Potential And Designing A Savonius Vertical Axis Wind Turbine For Urban Environment: Numerical, Experimental Study, And Economic Analysis. **Completed**
- Mekonnen, Y. (2019). Assessments Of Urban Domestic Water Supply Challenges In Injibara Town, Ethiopia. **Completed**
- Erhabor, G. (2019). Analysis of Wind Energy Potential In Selected Regions In Nigeria As A Power Generation Source. **Completed**
- Hadji, N. (2019). Evaluation of Solar Energy Potential in Ethiopia as Power Generation Source: A case Study at 100 Selected Cities. **Completed**
- Alsayas, S. (2019). Design and Development of Integrated Savonius Micro-Small Scale Vertical Axis Wind Turbine For Power Generation In Tripoli, Lebanon. **Completed**
- Bakande, C. (2020). Mathematical Models for Predicting the Biodiesel Properties. **Completed**
- Aateg, R. A. F. (2020). Modeling, Forecasting, and Reduction of CO₂ and Total Greenhouse Gas Emissions: A Case Study in Libya. **Completed**
- Omari, Q. (2020). Viability Study of Grid-Connected Rooftops Solar PV System for Different Coastal Cities in Lebanon. **Completed**
- Aljamal, J. (2020). Modeling And Forecasting of Monthly Rainfall Using Mathematical Models and Machine Learning Models: A Case Study In Morphou, Northern Cyprus. **Completed**
- Alijl, N. A. (2020). Flash Flood Risk Assessment Based On Historical Measured and Satellite Daily Rainfall Data: Kyrenia Region, Northern Cyprus. **Completed**
- Othman, A. A. (2021). Modeling of PV output power based on experimental data using various Machine-Learning techniques, multiple linear regression, and Quadratic model. **Completed**
- Gökçekuş, R. (2021). Modeling predictive suitability to estimate the potential of wind and solar energy to power water desalination units in Güzelyurt region, Northern Cyprus. **Completed**
- Abdalla, M.A. H. A. (2021), Assessment of solar and wind energy potential in Red Sea State in Sudan. **Completed**
- Abdalsamad, T. A. (2022). Statistical and Machine Learning Techniques Applied to The Prediction of Total Rainfall In Urban Cities, Northern Part of Iraq. **Completed**
- Mphinyane, L. P. (2022). Analyzing How Hydro-Climatological Parameters Affect Water Level Using Machine Learning Models – Gaborone Dam, Botswana. **Completed**
- Yarkpawolo Jr, S. (2022). Identification of the Most Suitable Probability Distribution Models for Daily And Monthly Rainfall Series in Liberia. **Completed**
- Yusuf, A. M. (2022). Correcting and Modeling Monthly Rainfall Based on Climate Parameters: Case Study of Somalia. **Completed**
- Tawalbeh, M. (2022). Geospasial of Solar And Wind Energy Potential Assessment In Cyprus. **Completed**
- Ruso, K. (2022). An Investigation Of Efficient Biodiesel Blends Via Cooling Curves. **Completed**
- Mehboob, A. (2023). Analysis of Wind Energy Potential in Selected Regions in Pakistan. **Completed**
- Adamu, M. T. (2023). Effects of geographical parameters in predicting the direct normal irradiance of africa using machine learning models. **Completed**
- Chikowero, T. (2023). Predicting solar radiation using machine learning models in global horizontal irradiance (GHI). **Completed**

- Abdelnaby, A. H. (2023). Wind Power Generation Scenarios in Lebanon. **Completed**
- Diah, F. S. (2023). Assessment Of Solar Energy In Lebanon Using The NASA Power Dataset. **Completed**
- Woyea, L. T. (2023). Wind and Solar Production Benefits For Resolving Liberia's Electricity And Water Crisis. **Completed**
- Apreala. T. Develop a hybrid renewable energy system for producing freshwater and electricity in rural area, Nigeria. **in-complete**

6.2. PhD Theses

- Güvensoy, A. (2022). Identification of the Solar Energy Potential as a Driver of Sustainable Development in Northern Cyprus using BIM and Techno-economic Modeling. **Completed**
- Alijl , N. Worry about climate change and urban flooding risk preparedness: A case study of Kyrenia (Northern Cyprus) and Dead Sea (Jordan). **in-complete**
- Rizza, T. Relating Groundwater Levels and Quality with Meteorological Parameters using Quadratic, Poisson Regression Models, Machine Learning Technique and GIS. **in-complete**
- Dannoun, Y. Global Climate Change Adaptation in Smart Cities: A case study in Northern Cyprus. **in-complete**
- Mosbah. A. A. S. Investigation the performance of renewable energy system in Libya. **in-complete**
- Abdalla. MA. H. Assessment of renewable energy potential in Sudan. **in-complete**
- Eze. M. C. Application of Transparent Insulation Materials to Building. **in-complete**
- Gökçekuş, R. Design and analysis of a floating photovoltaic based energy system with underground energy storage options. **in-complete**

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

- Kassem, Y., & Çamur, H. (2017). A Laboratory Study of the Effects of Wide Range Temperature on the Properties of Biodiesel Produced from Various Waste Vegetable Oils. *Waste and Biomass Valorization*, 8(6), 1995–2007. doi: 10.1007/s12649-016-9753-4
- Kassem, Y., & Çamur, H. (2018). Effects of storage under different conditions on the fuel properties of biodiesel admixtures derived from waste frying and canola oils. *Biomass Conversion and Biorefinery*, 8(4), 825–845. doi: 10.1007/s13399-018-0339-1
- Alayat, M., Kassem, Y., & Çamur, H. (2018). Assessment of Wind Energy Potential as a Power Generation Source: A Case Study of Eight Selected Locations in Northern Cyprus. *Energies*, 11(10), 2697. doi:10.3390/en11102697
- Saeed, R., Kassem, Y., & Çamur, H. (2019). Effect of Biodiesel Mixture Derived from Waste Frying-Corn, Frying-Canola-Corn and Canola-Corn Cooking Oils with Various Ages on Physicochemical Properties. *Energies*, 12(19), 3729. doi: 10.3390/en12193729
- Kassem, Y., Çamur, H., & Alhuoti, S. M. A. (2020). Solar Energy Technology for Northern Cyprus: Assessment, Statistical Analysis, and Feasibility Study. *Energies*, 13(4), 940. doi: 10.3390/en13040940

- Kassem, Y., & Gökçekuş, H. (2020). Water resources and rainfall distribution function: a case study in Lebanon. *Desalination and Water Treatment*, 177, 306–321. doi: 10.5004/dwt.2020.24811
- Gökçekuş, H., Kassem, Y., & Aljamal, J. (2020). Analysis of different combinations of meteorological parameters in predicting rainfall with an ANN approach: a case study in Morphou, Northern Cyprus. *Desalination and Water Treatment*, 177, 350–362. doi: 10.5004/dwt.2020.24988
- Kassem, Y., Çamur, H., & Aateg, R. A. (2020). Exploring Solar and Wind Energy as a Power Generation Source for Solving the Electricity Crisis in Libya. *Energies*, 13(14), 3708. doi:10.3390/en13143708
- Kassem, Y., Çamur, H., & Alassi, E. (2020). Biodiesel Production from Four Residential Waste Frying Oils: Proposing Blends for Improving the Physicochemical Properties of Methyl Biodiesel. *Energies*, 13(16), 4111. doi:10.3390/en13164111
- Kassem, Y., & Gökçekuş, H. (2021). Do Quadratic and Poisson Regression Models help to predict monthly rainfall?. *Desalination and Water Treatment*, 215, 288-318
- Kassem, Y., Gökçekuş, H., Çamur, H., Esenel, E. (2021). Application of Artificial Neural Network, Multiple Linear Regression, and Response Surface Regression Models in the Estimation of Monthly Rainfall in Northern Cyprus. *Desalination and Water Treatment*, 215, 328–346. doi: 10.5004/dwt.2021.26525
- Kassem, Y., Gökçekuş, H., Çamur, H., Esenel, E. (2021). Statistical analysis and determination of best-fit probability distribution for monthly rainfall in Northern Cyprus. *Desalination and Water Treatment*, 215, 347–379. doi: 10.5004/dwt.2021.26556
- Kassem, Y., Gökçekuş, H., & Gökçekuş, R. (2021). Identification of the Most Suitable Probability Distribution Models for Monthly and Annual Rainfall Series in Güzelyurt Region, Northern Cyprus. *Desalination and Water Treatment*, 215, 427–451
- Kassem, Y., Gökçekuş, H., & Maliha, M. R. M. (2021). Identifying most influencing input parameters for predicting chloride concentration in groundwater using an ANN approach. *Journal: Environmental Earth Sciences*. doi: 10.1007/s12665-021-09541-6
- Kassem, Y., Gökçekuş, H., & Güvensoy, A. (2021). Techno-Economic Feasibility of Grid-Connected Solar PV System at Near East University Hospital, Northern Cyprus. *Energies*, 14(22), 7627.
- Juaidi, A., Çamur, H., Jeguirim, M., Abdallah, R., Abdala, S., Salameh, T., & Kassem, Y. (2022). Estimation of solar irradiation and optimum tilt angles for south-facing surfaces in the United Arab Emirates: a case study using PVGIS and PVWatts. In *Recent Advances in Renewable Energy Technologies* (pp. 3-39). Academic Press.
- Kassem, Y., & Abdalla, M. H. A. (2022). Modeling predictive suitability to identify the potential of wind and solar energy as a driver of sustainable development in the Red Sea state, Sudan. *Environmental Science and Pollution Research*, 29(29), 44233-44254.
- Iravanian, A., Kassem, Y., & Gökçekuş, H. (2022). Stress–strain behavior of modified expansive clay soil: experimental measurements and prediction models. *Environmental Earth Sciences*. <https://doi.org/10.1007/s12665-022-10229-8>
- Kassem, Y., Gökçekuş, H., & Mosbah, A. A. S. (2023). Prediction of monthly precipitation using various artificial models and comparison with mathematical models. *Environmental Science and Pollution Research*, 1-27.
- Kassem, Y. (2023). Analysis of different combinations of meteorological parameters and well characteristics in predicting the groundwater chloride concentration with different empirical approaches: a case study in Gaza Strip, Palestine. *Environmental Earth Sciences*, 82(6), 134.

- Ünlüyol, D., Gökçekuş, H., Kassem, Y., Tezer, M., Meriçli, F., & Yavuz, D. Ö. (2023). Complementary and Alternative Medicines in Northern Cyprus: Public Awareness, Patterns of Use, and Attitudes. In *Healthcare* (Vol. 11, No. 7, p. 977). MDPI.
- Kassem, Y., Gökçekuş, H., & Alijl, N. (2023). Gridded Precipitation Datasets and Gauge Precipitation Products for Driving Hydrological Models in the Dead Sea Region, Jordan. *Sustainability*, 15(15), 11965.
- Lagili, H. S. A., Kiraz, A., Kassem, Y., & Gökçekuş, H. (2023). Wind and Solar Energy for Sustainable Energy Production for Family Farms in Coastal Agricultural Regions of Libya Using Measured and Multiple Satellite Datasets. *Energies*, 16(18), 6725
- Kassem, Y., Gökçekuş, H., & Abdalla, M. H. A. (2023). Wind energy resource assessment based on the use of multiple satellite data for sustainable energy production in Sudan. *Environment, Development and Sustainability*, 1-37.
- Kassem, Y. (2018). Computational study on vertical axis wind turbine car: Static study. *Modeling Earth Systems and Environment*, 4(3), 1041-1057. doi:10.1007/s40808-018-0461-x
- Kassem, Y., Gökçekuş, H., & Çamur, H. (2018). Economic assessment of renewable power generation based on wind speed and solar radiation in urban regions. *Global J. Environ. Sci. Manage.*, 4(4), 465-482.
- Khan, M. A., Çamur, H., & Kassem, Y. (2019). Modeling predictive assessment of wind energy potential as a power generation sources at some selected locations in Pakistan. *Modeling Earth Systems and Environment*, 5(2), 555-569. doi:10.1007/s40808-018-0546-6
- Kassem, Y., Al Zoubi, R., & Gökçekuş, H. (2019). The Possibility of Generating Electricity Using Small-Scale Wind Turbines and Solar Photovoltaic Systems for Households in Northern Cyprus: A Comparative Study. *Environments*, 6(4), 47. doi:10.3390/environments6040047
- Kassem, Y., Gökçekuş, H., & Zeitoun, M. (2019). Modeling of techno-economic assessment on wind energy potential at three selected coastal regions in Lebanon. *Modeling Earth Systems and Environment*. doi:10.1007/s40808-019-00589-9
- Kassem, Y., Çamur, H., & Abughinda, O. A. (2020). Solar energy potential and the feasibility study of 10MW grid-connected solar plant in Libya. *Engineering, Technology & Applied Science Research*, 10 (4), 5358-5366.
- Kassem, Y., Gökçekuş, H., & Janbein, W. (2021). Predictive model and assessment of the potential for wind and solar power in Rayak region, Lebanon. *Modeling Earth Systems and Environment*. doi:10.1007/s40808-020-00866-y
- Çamur, H, Kassem, Y., & Alassi, E. (2021). A Techno-Economic Comparative Study of a Grid-Connected Residential Rooftop PV Panel: The Case Study of Nahr El-Bared, Lebanon. *Engineering, Technology & Applied Science Research*, 11 (2), 6956-6964.
- Kassem, Y., Gökçekuş, H., & Lagili, H. S. A. (2021). A Techno-Economic Viability Analysis of the Two-Axis Tracking Grid-Connected Photovoltaic Power System for 25 Selected Coastal Mediterranean Cities. *Engineering, Technology & Applied Science Research*, 11 (4), 7508-7514.
- Kassem, Y., Gökçekuş, H., Iravanian, A., & Gökçekuş, R. (2022). Predictive suitability of renewable energy for desalination plants: the case of güzelyurt region in northern Cyprus. *Modeling Earth Systems and Environment*, 1-21
- Kassem, Y., Gökçekuş, H., & Alassi, E. (2022). Identifying most influencing input parameters for predicting Cereal production using an artificial neural network model. *Modeling Earth Systems and Environment*, 8(1), 1157-1170

- Kassem, Y., Gökçekuş, H, & Rizza, T. (2022). Groundwater quality assessment for drinking water supply based on water quality index in Northern Cyprus. *Engineering, Technology & Applied Science Research*, 12(2), 8435–8443
- Kassem, Y., Othman, A.A. (2022). Selection of most relevant input parameters for predicting photovoltaic output power using machine learning and quadratic models. *Model. Earth Syst. Environ.* <https://doi.org/10.1007/s40808-022-01413-7>
- Kassem, Y., Gökçekuş, H, & Rizza, T. (2022). Flash Flood Risk Assessment for Girne Region, Northern Cyprus. *Engineering, Technology & Applied Science Research*, 12(3), 8728–8737. <https://doi.org/10.48084/etasr.4939>
- Kassem, Y., Gökçekuş, H., & Alijl, N. (2022). Flash Flood Risk Assessment for Girne Region, Northern Cyprus. *Engineering, Technology & Applied Science Research*, 12(3), 8728-8737.
- Kassem, Y., Gökçekuş, H., Gökçekuş, R. (2022). Economic Feasibility of Large-Scale Renewable Energy Projects in Mountain Location, Northern Cyprus. In: Gökçekuş, H., Kassem, Y. (eds) *Climate Change, Natural Resources and Sustainable Environmental Management. NRSEM 2021. Environmental Earth Sciences.* Springer, Cham. https://doi.org/10.1007/978-3-031-04375-8_8
- Kassem, Y., Gökçekuş, H., Çamur, H., Esenel, E. (2022). A Comparative Study of a Small-Scale Solar PV Power Plant in Nahr al-Bared, Lebanon. In: Gökçekuş, H., Kassem, Y. (eds) *Climate Change, Natural Resources and Sustainable Environmental Management. NRSEM 2021. Environmental Earth Sciences.* Springer, Cham. https://doi.org/10.1007/978-3-031-04375-8_16
- Kassem, Y., Gokcekus, H., Camur, H., & Abdelnaby, A. H. A. (2022). Wind Power Generation Scenarios in Lebanon. *Engineering, Technology & Applied Science Research*, 12(6), 9551-9559.
- Kassem, Y., Gökçekuş, H., Iravanian, A., & Nategh, M. (2022). Implications of the FMEA Method in Evaluating Amirkabir Dam’s Environmental Risk. *Environmental and Climate Technologies*, 26(1), 982-997.
- Kassem, Y., Gokcekus, H., & Agila, F. A. R. (2023). Techno-Economic Feasibility Assessment for the promotion of Grid-Connected Rooftop PV Systems in Botswana: A Case Study. *Engineering, Technology & Applied Science Research*, 13(2), 10328-10337.
- Kassem, Y., Gokcekus, H., & Essayah, A. M. S. (2023). Wind Power Potential Assessment at Different Locations in Lebanon: Best-Fit Probability Distribution Model and Techno-Economic Feasibility. *Engineering, Technology & Applied Science Research*, 13(2), 10578-10587.
- Kassem, Y., Gokcekus, H., Hamad, O. A. M. & Fayid, F. M. B. (2023). Economic Viability of a 6.5kW Off-grid Solar PV with Various Sun-Tracking Systems in Northern Cyprus: A Case Study. *Engineering, Technology & Applied Science Research*, 13(2), 10608–10621.
- Kassem, Y., Gokcekus, H., Ab Albakoush, I. A., & Abdullah, K. S. B. (2023). Solar-Powered Solutions for the Water and Energy Shortage Problem: The Case Study of Nahr El Bared, Lebanon. *Engineering, Technology & Applied Science Research*, 13(3), 10861-10869.
- Okoye, G. M., Kassem, Y., & Gökçekuş, H. (2023). Climate Change Impact Assessment In Southeast Nigeria. *China Petroleum Processing and Petrochemical Technology*, 23 (5), 500-510
- Kassem, Y., Gokcekus, H., & Aljatlawe, A. (2023). Utilization of Solar Energy for Electric Vehicle Charging and the Energy Consumption of Residential Buildings in Northern Cyprus: A Case Study. *Engineering, Technology & Applied Science Research*, 13(5), 11598-11607.
- Okoye, G. M., Kassem, Y., & Gökçekuş, H. (2023). Assessing the Impacts Of Climate Change

On Hydropower Generation And The Power Sector In Nigeria. *China Petroleum Processing and Petrochemical Technology*, 23 (2), 1-15.

- Kassem, Y., Camur, H., Adamu, M. T., Chikowero, T., & Apreala, T. (2023). Prediction of Solar Irradiation in Africa using Linear-Nonlinear Hybrid Models. *Engineering, Technology & Applied Science Research*, 13(4), 11472-11483.
- Kassem, Y., Camur, H., & Mosbah, A. A. S. (2023). Feasibility Analysis of the Wind Energy Potential in Libya using the RETScreen Expert. *Engineering, Technology & Applied Science Research*, 13(4), 11277-11289.
- Kassem, Y., Aktuğ, B., Özgenç, E., Dib, M., Ghisheer, M., Cole, O., & Çamur, H. (2018). Effects of storage period on kinematic viscosity and density of biodiesel and its blends with ultra-low-sulfur diesel fuel at constant storage temperature. *International Journal of Smart Grid and Clean Energy*. doi:10.12720/sgce.7.2.130-144
- Kassem, Y., Faraj, R. A., & Camur, H. (2018). Mechanical engineering with solidwork flow simulation improving and supporting undergraduate student learning in mechanical engineering courses: Fluid dynamic course. *New Trends and Issues Proceedings on Humanities and Social Sciences*, 5(4), 45-51. doi:10.18844/prosoc.v5i4.3702
- Kassem, Y., Sefik, A., Çamur, H., & Bahroun, A. A. (2019). Experimental and Numerical Investigation of the Influence of Blade Geometries and Blade Number on the Performance of a Newly Developed Savonius-Style Wind Rotor. *Journal of Engineering and Applied Sciences*, 14(24), 9788–9805. doi: 10.36478/jeasci.2019.9788.9805
- Kassem, Y., Çamur, H., & Alhuoti, S. M. A. (2019). MATLAB Simulator can support student learning for Fluid Mechanics courses in the Mechanical Engineering Department. *International Journal of Engineering Research and Technology*, 12(7), 1020-1032.
- Kassem, Y., Camur, H., & Hasan, R. (2019). Power Generation with Different Types of the Vertical Wind Turbine for Domestic use in Northern Cyprus: A Case Study. *Journal of Engineering and Applied Sciences*, 14(24), 9745–9754. doi: 10.36478/jeasci.2019.9745.9754
- Kassem, Y., Çamur, H., & Mosbah, A. (2019). Study of the Bucket Design Effect on Static Torque of Unconventional Savonius Wind Rotors for Low-Velocity Ranges. *International Journal of Engineering Research and Technology*, 12(7), 993-1007
- Kassem, Y., Camur, H., Abughinda, S. A., & Sefik, A. (2019). Wind Energy Potential Assessment in Selected Regions in Northern Cyprus Based on Weibull Distribution Function. *Journal of Engineering and Applied Sciences*, 15(1), 128–140. doi: 10.36478/jeasci.2020.128.140
- Kassem, Y., Gokcekus, H., & Filitoglu, Ü. B. (2019). Performance Characteristics of Building Integrated and Freestanding Photovoltaic System with Various PV Technologies and Angles: A Case Study in NEU Grand Library, North Nicosia. *Journal of Engineering and Applied Sciences*, 15(4), 1027–1042. doi: 10.36478/jeasci.2020.1027.1042
- Kassem, Y., Gökçekuş, H., Mizran, M., & Alsayas, S. (2019). Evaluation of the Wind Energy Potential in Lebanon's Coastal Regions using Weibull Distribution Function. *International Journal of Engineering Research and Technology*, 1(6), 784-792.
- Gökçekuş, H., Kassem, Y., & Musa, M. (2019). Behavior of Asphalt Pavement Structure Under Influenced Of Alteration Climatic Condition. *International Journal of Innovative Technology and Exploring Engineering*, 8(8).
- Gökçekuş, H., Kassem, Y., & Tallawi, G. (2019). Evaluation of Traffic Congestion and Level of Service at Major Intersections in Lefkoşa, Northern Cyprus. *International Journal of Innovative Technology and Exploring Engineering*, 8(8).

- Gökçekuş, H., Kassem, Y., & Abdi, S. (2019). Simulation and performance analysis of 110 KWP grid-connected photovoltaic (PV) system for residential building in Northern Cyprus. *International Journal of Innovative Technology and Exploring Engineering*, 8(8).
- Gökçekuş, H., Kassem, Y., & Ikechukwu, O.E. (2019). An assessment on relationship of agricultural sub-sectors with GDP in Nigeria. *International Journal of Innovative Technology and Exploring Engineering*, 8(10).
- Gökçekuş, H., Kassem, Y., & Omari, Q.. (2019). Selection the Best Technique for Solid Waste Management at Misurata city, Libya. *International Journal of Innovative Technology and Exploring Engineering*. 8(9), 1250-1257.
- Kassem, Y., Gökçekuş, H., & Güvensoy, A. (2019). Solar Potential assessment in Near East University, Northern Cyprus. *International Journal of Engineering Research and Technology*, 3061–3069.
- Bakande, C., Kassem, Y., & Çamur, H. (2020). Mathematical Models for Predicting the Biodiesel. *International Journal of Innovative Technology and Exploring Engineering*, 2362–2376.
- Gökçekuş, H., Kassem, Y., Alijl , N., & Tawalbeh, M. (2020). Flash Flood Risk Mitigation Plan: Zarqa Ma'in Basin, Along the Dead Sea in Jordan. *International Journal of Scientific & Technology Research*, 9(3), 4089–4095.
- Gökçekuş, H., Kassem, Y., & Musa, M. K. (2020). Environmental Impact of Municipal Solid Waste Landfill in North of Iraq. *International Journal of Innovative Technology and Exploring Engineering*, 9(3), 756–763.
- Kassem, Y., Gökçekuş, H., & Aljamal, J. (2020). Surface water resource and effect of weather parameters in estimating the annual rainfall: A case study in Lebanon. *IOP Conference Series: Materials Science and Engineering*, 800, 012028. doi: 10.1088/1757-899x/800/1/012028
- Gökçekuş, H., Kassem, Y., Yunusa, N., Musa, M., John, S., Usman, S., ... Ahmad, S. (2020). Study on Pit Latrine Minimum Design Requirement and Considerations in Northern Nigeria. *International Journal of Innovative Technology and Exploring Engineering*, 9(4), 1802–1809.
- Gökçekuş, H., Kassem, Y., Haider, A., & Ali, S. (2020). Mechanical Behavior of Concrete Reinforced With Waste Plastic Bottles Fibers. *International Journal of Civil Engineering and Technology*, 11(7), 66-80.
- Gökçekuş, H., Kassem, Y., Saber, S., & Ahmed, A. (2020). Municipal Solid Waste Management System and Environmental Impacts In Iraq: A Review Paper. *International Journal of Civil Engineering and Technology*, 11(7), 106-113.
- Fosso, F. P. K., Gökçekuş, H., & Kassem, Y. (2023). Precipitation Analysis And Empirical Models: Review Study. *Journal of Optoelectronics Laser*, 42(7), 16-22.
- Gökçekuş, H., Kassem, Y., & Ndasack, N. M. (2023). Evaluation of Integrated Water Resources Management and Water Resource Management in Cameroon. *Journal of Optoelectronics Laser*, 42(9), 1-10.
- Gokcekus, H., Kassem, Y., & Yallah, L. N. (2023). The Role of Universities In Addressing Climate Change And Advancing Renewable Energy In Liberia, Monrovia. *Journal of Optoelectronics Laser*, 42(9), 16-26.
- Ngiele, M. C. N., Gökçekuş, H., & Kassem, Y. (2023). Rainfall Prediction Using Regression Analysis: Review Study of Democratic Republic of the Congo. *Journal of Optoelectronics Laser*, 42(10), 10-12.

- Kassem, Y., Gökçekuş, H., Elmubark, M., & Abdelmoniem, R. (2023). Towards Sustainable and Resilient High-Density Cities through Planning for the Construction of the Low-Rise Building: A Case Study from Sudan. *Journal of Optoelectronics Laser*, 42(11), 17-42.

7.2. Articles Published in Other International Peer-Reviewed Journals

- Kassem, Y., & Çamur, H. (2017). A Numerical Study of a Newly Developed of Savonius Wind Turbine Style on Increasing the Performance of Savonius Wind Rotor. *American Journal of Modern Energy*, 3(6), 115-120.
- Kassem, Y., & Gökçekuş, H. (2018). GHG Emissions And Energy Performance Of 1mw Grid-Connected Solar PV Plant At Lefke In Northern Cyprus: Case Study. *Disaster Science And Engineering*, 4(2).
- Kassem, Y., Çamur, H., & Bennur, K. (2018). Adaptive Neuro-Fuzzy Inference System (ANFIS) and Artificial Neural Network (ANN) for Predicting the Kinematic Viscosity and Density of Biodiesel Petroleum Diesel Blends. *American Journal of Computer Science and Technology*, 1(1), 8-18.
- Kassem, Y., Çamur, H., & Alghazali, A. (2018). Prediction of the Mechanical Power in Wind Turbine Powered Car Using Velocity Analysis. *American Journal of Science, Engineering and Technology*, 3(1), 10-20.
- Balak, S., Halimeh, K., ALhafez, M., Çamur, H., & Kassem, Y. (2018). Effect of the bucket angle on the static torque of Savonius wind turbine rotors: Numerical Study. *International Research Journal of Engineering and Technology*, 5(7).
- Kassem, Y., Gökçekuş, H., & Çamur, H. (2018). Effects of Climate Characteristics on Wind Power Potential and Economic Evaluation in Salamis Region, Northern Cyprus. *International Journal of Applied Environmental Sciences*, (13), 3, 287-307.
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Proceedings

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- Kassem, Y., Gökçekuş, H. , & Kpewoan II , J. K. (2023). A Comparative Study of Artificial Neural Networks and Multiple Linear Regression for Predicting Average Monthly Rainfall in Northern Cyprus. 16th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools. Springer, Cham. In press
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- Kassem, Y., Gökçekuş, H. , & Alijl, N. (2023). Evaluating satellite-based and reanalysis precipitation datasets with gauge observed data and hydrological modeling in the Dead Sea region, Jordan. 15th International Congress on Advances in Civil Engineering- ACE 2023, 6-7-8 September 2023. Springer, Cham. In press
- Kassem, Y., Çamur, H., & Abdelnaby, A. H. A. (2023). Wind Power Prediction in Mediterranean Coastal Cities Using Multi-layer Perceptron Neural Network. In International Conference on Data Analytics & Management (pp. 253-264). Singapore: Springer Nature Singapore.
- Kassem, Y., Çamur, H., & Abdalla, M. H. (2023). Assessment of Floating Photovoltaic (FPV) Systems as an Alternative Electricity Generation Source: A Case Study from Sudan. In *IOP Conference Series: Earth and Environmental Science* (Vol. 1267, No. 1, p. 012031). IOP Publishing.
- Kassem, Y., & Çamur, H. (2013). Wind Power Vehicle Uses 3 Double C Section Blades. *Engineering Sciences International Research Journal*, 2330-4338.

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- Kassem, Y., Çamur, H. & Alghazali, A. (2017). Evaluation of Wind Energy Potential and Economic Analysis of Wind Energy Turbine Using Present Value Cost Method at Famagusta, Rizokarpaso, Kyrenia, Morphou, Nicosia and Ercan in Cyprus: Case Study. *3RD International Conference on Applied Economics and Finance (ICOAEF 2017) 6 - 7 December, 2017, North Cypru*

7.4. National/international Books or Book Chapters

- Gökçekus, H., & Kassem, Y. (2021). Energy Security in International Conflicts: The Case of the Eastern Mediterranean. In Cyprus: Alternative Solution Models. Peter Lang GmbH, Internationaler Verlag Der Wissenschaften. DOI: 10.3726/b17757
- Gökçekus, H., & Kassem, Y. (2021). Turkey-North Cyprus-Neighboring Countries Peace Water Project. In Cyprus: Alternative Solution Models. Peter Lang GmbH, Internationaler Verlag Der Wissenschaften. DOI: 10.3726/b17757
- Gökçekuş, H., & Kassem, Y.(2022). Climate Change, Natural Resources and Sustainable Environmental Management. Springer.

7.5. Articles Published in National Peer-Reviewed Journals

- Kassem, Y., & Gökçekuş, H. (2019). Lefke Kentindeki Enerji Talebi ve Yenilenebilir Enerjinin İncelenmesi, 1. Lefke Kent Sempozyumu Bilidirileri. 265-269
- Kassem, Y., & Gökçekuş, H. (2020). Küçük Ölçekli Bir İlçe İçin Şebekeye Entegre Rüzgar-Güneş Hibrit Ev Enerji Üretim Sistemi: Lefke Bölgesi İçin Ölçekli Bir Çalışma. 2. Lefke Kent Sempozyumu Bilidirileri. 389-395

8. Art and Design Activities

9. Projects

10. Administrative Responsibilities

11. Memberships in Scientific and Professional Organizations

Organizing: 2nd International Conference on Earthquake Hazard and Risk in the Mediterranean Region (EHRMR-2024)

- **Organizing and scientific committee:** 6th International Conference on Natural Resources and Sustainable Environmental Management
- **Organizing and scientific committee:** 2nd International Conference on Earthquake Hazard and Risk in the Mediterranean Region
- **Organizing and scientific committee:** Third International Conference On "Cyprus Issue: Environmental Challenges And Energy Security"
- **Organizing and scientific committee:** fifth international conference on natural resources and sustainable environmental management

- **Organizing and scientific committee:** 2nd International Conference on “The Cyprus Issue: Past, Present and The Vision for the Future
- **Organizing and scientific committee:** 2nd International Conference on Water Problems in the Mediterranean Countries
- **Organizing and scientific committee:** 2nd International Conference of Environment: Survival and Sustainability
- **Seminar:** Smart City and Sustainable Water Resources Management Strategies **(Organized)**
- **Seminar:** Smart Cities and Sustainable Development Goals: Challenges and Opportunities **(Organized)**
- **Seminar:** Climate Change and Use of Machine Learning for Climate Change Assessment **(Organized)**
- **Seminar:** Publication and Selecting a Suitable Dissertation Topic **(Organized)**

12. Awards

- NEU Scientific Research Award 2018, 2020, 2021 and 2022.

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	Fall	Thermodynamic I	4	-	47
	Fall	Fluid Mechanics	4	-	38
	Fall	Internal Combustion Engine	3	-	28
	Fall	Reverse Engineering Method	3	-	23
	Spring	Thermodynamic II	3	-	13
	Spring	Dynamic of Machinery	4	-	28
	Spring	Strength of Material	4	-	38
	Spring	Heat Transfer	4	-	31
2022 - 2023	Fall	Thermodynamic I	4	-	75
	Fall	Fluid Mechanics	4	-	26
	Fall	Internal Combustion Engine	3	-	16
	Fall	Statics	4	-	42
	Spring	Thermodynamic II	3	-	20
	Spring	Dynamic of Machinery	4	-	15
	Spring	Strength of Material	4	-	52
	Spring	Heat Transfer	4	-	22