

Associate Professor :Wedyan Ghalib Nasif



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PERSONAL SUMMARY:

- **Full Name:** Wedyan Ghalib Nasif AL-atabi
- **Scientific Title:** Dr. Associate Professor
- **Place of Birth:** Baghdad, Iraq.
- **Email (alternative):** wedyanghalib@gmail.com
- **Mobile:** +9647704292441
- **Page profile, Academic of Mustansiriyah Univ.:** <https://uomustansiriyah.edu.iq/e-learn/UOMTeach/index.php>
- **ResearchGate:** <https://www.researchgate.net/profile/Wedyan-Ghalib>
- **ORCID:** <http://orcid.org/0000-0001-5619-4359>
- **Google Scholar Citations:** <https://scholar.google.com/citations?hl=ar&user=DSGn0yQAAAAJ>
- **Scopus profile:** <https://www.scopus.com/authid/detail.uri?authorId=57217129359>
- **Web of Science:** <https://www.webofscience.com/wos/author/record/AIA-1419-2022>

EDUCATION:

- B.Sc. in Meteorology, Mustansiriyah University, **Baghdad, Iraq.**
- M.Sc. in Applied meteorology and hydrology, **Russian** State University for the Meteorological.
- PhD Research :PhD in Renewable Energy / University of **Tunis El Manar**, Tunisia, 2025–2026.

Research Focus:

GIS, Remote Sensing, Multi-Criteria Decision Analysis, Renewable Energy Suitability and Potential Assessment, and the Impact of Future Climate Change on Solar and Wind Energy Resources.

Research Interests

1. Renewable Energy Assessment and Potential
2. Wind Energy and Wind Resource Assessment
3. Solar Energy and Photovoltaic Systems
4. Geographic Information Systems (GIS)
5. Remote Sensing and Spatial Analysis
6. Multi-Criteria Decision Analysis (MCDA/AHP)
7. Climate Change and Climate Projections
8. Atmospheric Sciences and Atmospheric Dynamics
9. Meteorology and Hydrology
10. Environmental and Climate Applications

Languages

1. **Arabic:** Native
2. **English:** Very Good
3. **Russian:** Very Good

PUBLICATIONS:

- [1] Osama T. Al-Taai and **Wedyan G. Nassif** (2020). The Relationship between Soil Temperature and Volumetric Soil Water Content in Iraq using ECMWF Data for the Period (1980-2016). *Journal of Physics: Conference Series*, **1530**(2), 012138. ([SCOPUS](#))
- [2] Osama T. Al-Taai and **Wedyan G. Nassif** (2020). The Relationship between Winds and Rainfall over Selected Stations in Iraq. *Plant archives*, **20**(Supplement 2), 1117-1121. ([SCOPUS](#))
- [3] Sara A. Mute, **Wedyan G. Nassif**, Zahraa A. Al-Ramahy and Osama T. Al-Taai (2020). Analysis of Seasonal and Annual Relative Humidity Using GIS for Selected Stations over Iraq during the Period (1980-2017). *Journal of Green Engineering*, **10**(10), 9121-9135. ([SCOPUS](#))
- [4] **Wedyan G. Nassif**, Zahraa A. Al-Ramahy, Sara A. Muter and Osama T. Al-Taai (2020). Effect of Variation of Rainfall, Soil Moisture and Evaporation in Baghdad City. *Plant archives*, **20**(2), 7739-7744.
- [5] Osama T. Al-Taai and **Wedyan G. Nassif** (2020). Impact Rainfall on the Aerosols Optical Thickness over Selected Stations in Iraq. *IOP Conference Series: Materials Science and Engineering*, **928**(1), 072053. ([SCOPUS](#))
- [6] **Wedyan G. Nassif**, Osama T. Al-Taai and Zainab M. Abbood (2020). The Influence of Solar Radiation on Ozone Column Weight over Baghdad City. *IOP Conference Series: Materials Science and Engineering*, **928**(1), 072089. ([SCOPUS](#))
- [7] **Wedyan G. Nassif**, Osama T. Al-Taai and Sara A. Muter (2021). Inference of Dynamically Dust Storms by Relying on Aerosols Optical Thickness in Iraq. *Journal of Green Engineering*, **11**(1), 530-546. ([SCOPUS](#))
- [8] Zainab M. Abbood, Osama T. Al-Taai and **Wedyan G. Nassif** (2021). Impact of Wind Speed and Direction on Low Cloud Cover over Baghdad City. *Current Applied Science and Technology*, **21**(3), 590-600. ([SCOPUS](#))
- [9] **Wedyan G. Nassif**, Osama T. Al-Taai, Ali J. Mohammed and Hasanain K. A. AL-Shamarti (2021). Estimate Probability Distribution of Monthly Maximum Daily Rainfall of Iraq. *Journal of Physics: Conference Series*, **1804**(1), 012078. ([SCOPUS](#))
- [10] **Wedyan G. Nassif**, Farah H. Jasim and Osama T. Al-Taai (2021). Analysis of Air Temperature, Relative Humidity and Evaporation over Iraq Using ECMWF Reanalysis. *Indian Journal of Ecology*, **48**(2), 446-452. ([SCOPUS](#))
- [11] Majeed, Husam T., **Wedyan G. Nassif**, and Yasmin Q. Tawfeek. "Effects of meteorological parameters on surface concentration of carbon monoxide over Iraq." *J. Green Eng* 10, no. 9 (2020): 5927-5940. ([SCOPUS](#))
- [12] **Nassif, Wedyan G.**, Basim I. Wahab, Monim H. Al-Jiboori, and Abdulrahman B. Ali. "Temporal and Spatial Analysis of Alpha and Beta Activity Concentration at Al-Tuwaitha Site, Baghdad." *Nature Environment and Pollution Technology* 19, no. 4 (2020): 1499-1505. ([SCOPUS](#))
- [13] **Nassif, Wedyan G.**, Hussain Abodi Nemah, and Basim Abdul Sada. "STUDY OF GEOPOTENTIAL HEIGHT VALUES AND ITS INRACTION WITH TEMPERATURE DEGREE OVER BAGHDAD CITY, IRAQ." *Plant Archives* 20, no. 2 (2020): 1388-1391. ([SCOPUS](#))
- [14] **Nassif, Wedyan G.**, Farah H. Jasim, and Osama T. Al-Taai. "Analysis of air temperature, relative humidity and evaporation over Iraq using ECMWF reanalysis." *Indian Journal of Ecology* 48, no. 2 (2021): 446-452. ([SCOPUS](#))
- [15] HASHIM, SHIEMAA A., **WEDYAN G. NASSIF**, BASIM I. WAHAB, ZAINAB M. ABBOOD, OSAMA T. AL-TAAI, and ZAHRAA S. MAHDI. "IMPACT OF COVID-19 ON AEROSOL OPTICAL DEPTH AND PARTICULATE MATTER OVER IRAQ." ([SCOPUS](#))
- [16] **Nassif, Wedyan G.**, Mohammed M. Ahmed, and Osama T. Al-Taai. "Influence of Precipitation and Evaporation on Water Balance in Iraq." ([SCOPUS](#))

- [17] **Nassif, W. G.**, Elhmaidi, D., & Al-Timimi, Y. K. (2024). Selecting suitable sites for wind energy harvesting in Iraq using GIS techniques. *Iraqi Journal of Science*, 5959-5971. (**SCOPUS**)
- [18] **Nassif, W. G.**, Al-Timimi, Y. K., & Elhmaidi, D. (2025). GIS-AHP for Optimal Solar Site Selection: A Case Study of Iraq and Its Implications for Climate Change. *International Journal of Sustainable Energy Planning and Management*, 47, 71-89. (**SCOPUS**)
- [19] **Nassif, W. G.**, Lagenean, F. H., & Al-Taai, O. T. (2023). Impact of vegetation cover on climate change in different regions of Iraq. *Caspian Journal of Environmental Sciences*, 21(2), 333-342. (**SCOPUS**)
- [20] **Nassif, W. G.**, Elhmaidi, D., & Al-Timimi, Y. K. (2024). Selecting suitable sites for wind energy harvesting in Iraq using GIS techniques. *Iraqi Journal of Science*, 5959-5971. (**SCOPUS**)
- [21] **Nassif, W. G.**, Jaber, S. H., Naif, S. S., & Al-Taai, O. T. (2021, November). Estimate of the dynamical change of air temperature, relative humidity and dew point temperature for some selected station in Iraq. In *IOP Conference Series: Earth and Environmental Science* (Vol. 910, No. 1, p. 012010). IOP Publishing. (**SCOPUS**)
- [22] Abd, N. M., Abbood, Z. M., Mohammed, N. A., Al-Taai, O. T., & **Nassif, W. G.** (2025). Impact of acid gases on total precipitation over Iraqi stations. *Nature Environment and Pollution Technology*, 24, 439-448. (**SCOPUS**)
- [23] Hashim, S. A., **Nassif, W. G.**, Wahab, B. I., Abbood, Z. M., Al-Taai, O. T., & Mahdi, Z. S. (2022). Impact of Covid-19 on aerosol optical depth and particulate matter over Iraq. *Journal of engineering science and technology*, 17, 12-20. (**SCOPUS**)

Advisory Board Memberships

Advisory Board Member, *International Research Journal of Innovations in Engineering and Technology (IRJIET)*. <https://irjiet.com/>

Peer-Reviewing Activities

Reviewer, *Global NEST Journal*. https://cosmos.gnest.org/journal/gnest/paper/gnest_08652

Conferences and Scientific Participation

1. Participation in national and international scientific conferences in the fields of Atmospheric Sciences, Climate Change, GIS, Remote Sensing, and Renewable Energy.
2. Presentation of scientific research related to atmospheric dynamics, climate variability, environmental applications, and renewable energy assessment.

Technical and Research Skills

1. Geographic Information Systems (GIS)
2. ArcGIS and Spatial Analysis
3. Remote Sensing
4. Multi-Criteria Decision Analysis (MCDA)
5. Analytical Hierarchy Process (AHP)
6. Renewable Energy Suitability Assessment
7. Wind Resource and Energy Potential Assessment
8. Solar Energy and Photovoltaic Potential Assessment
9. Climate Data Analysis
10. CMIP6 Climate Projections
11. Statistical and Meteorological Data Analysis
12. Microsoft Office and Microsoft Exce