

Curriculum Vitae

Assist. Prof. Dr. Osama Tarek Al-Taai

Al-Mustansiriyah University – College of Sciences – Atmospheric Sciences Department

Mobile: +9647901988437

Email: osamaaltaai77@uomustansiriyah.edu.iq

PERSONAL SUMMARY:

- **Full Name:** Dr. Osama Tarek Ahmed Al-Taai
- **Scientific Title:** Assistant Professor.
- **Date and Place of Birth:** 2/7/1977 – Baghdad – Iraq.
- **Marital Status:** Married with one son.
- **Email (alternative):** aus_tar77@yahoo.com
- **ResearchGate:** https://www.researchgate.net/profile/Osama_Al-Taai
- **LiveDNA:** <http://livedna.org/964.12593>
- **Thomson Reuters ResearcherID Index:** L-7423-2016
ORCID: <http://orcid.org/0000-0002-4747-214X>
- **SCOPUS ID:**
<https://www.scopus.com/customer/settings.uri?zone=TopNavBar&origin=NO%20ORIGIN%20DEFINED>
- **ACADEMIA.Edu:** <https://independent.academia.edu/OsamaTarek>
- **Google Scholar Citations:** <https://scholar.google.com/citations?hl=en&user=RgNex4cAAAAJ>

EDUCATION:

- Ph.D. in Weather Forecast Using Fuzzy Logic, 2007 from Al-Mustansiriyah University, Baghdad – Iraq.
- M.Sc. in Renewable Energy, 2002 from Al-Mustansiriyah University, Baghdad – Iraq.
- B.Sc. in Meteorology, 1999 from Al-Mustansiriyah University, Baghdad – Iraq.

ACADEMIC HONORS AND AWARDS:

- Honoring shield the College of Science of the best teaching in the Department of atmospheric Sciences for the year 2012 by Dean of the College of Science.

- **Thankfulness:**

	Thankfulness book	Issus	Date
1	From Dean of Science College.	2216	24/06/2008
2	From Head of Al-Mustansiriyah University.	4020	23/09/2008
3	From Dean of Science College.	4414	06/11/1008
4	From Dean of Science College.	288	24/01/2010
5	From Dean of Science College.	624	09/02/2011
6	From Dean of Science College.	624	09/02/2011
7	From Dean of Science College.	5279	27/10/2011
8	From Head of Al-Mustansiriyah University.	5556	14/11/2011
9	From Dean of Science College.	****	2012
10	From Dean of Education for Pure Sciences College/ Babylon University.	2326	17/09/2013
11	From Head of Al-Mustansiriyah University.	11782	23/04/2014
12	From Head of Al-Mustansiriyah University.	26953	19/10/2014

13	From Dean of Science College/ Diyala University.	613	22/02/2015
14	From Dean of Education for Pure Sciences College/ Babylon University.	529	01/03/2015
15	From Dean of Science College.	2809	18/05/2015
16	From Dean of Science College/ Diyala University.	1984	26/07/2015
17	From Head of Al-Mustansiriyah University.	21656	25/08/2015
18	From Head of Al-Mustansiriyah University.	22591	06/09/2015
19	From Dean of Science College.	4759	15/09/2015
20	From Dean of Science College/ Diyala University.	2391	08/09/2016
21	From Dean of Science College/ Diyala University	2591	03/10/2016
22	From Head of Al-Mustansiriyah University.	25275	09/11/2016

ACADEMIC /TEACHING EXPERIENCE:

- 2002-2006:Assistant Lecturer, Department of Atmospheric Sciences, College of Science, Al-Mustansiriyah University, Baghdad, Iraq.
- 2007-2011:Lecturer, Supervisor about Lectures of Scientific Continuity and Supervisor about Wireless Weather Station (Davis Pro plus) in Department of Atmospheric Sciences, College of Science, Al-Mustansiriyah University, Baghdad, Iraq.
- 2012-Now:Assistant Professor in Department of Atmospheric Sciences, College of Science, Al-Mustansiriyah University, Baghdad, Iraq.
- **Undergraduate:**
More than (14) years' experience in teaching undergraduate courses in Atmospheric Sciences (Tropical Meteorology, Introduction to Atmospheric Sciences, Synoptic, Radiation, Prediction Atmosphere, Observation Atmosphere, Aircraft Meteorology, Computer Sciences and others). Supervised and Participation of commission discussion for B. Sc. Students in Department of Atmospheric Sciences.
- **Graduate:**
More than (9) years' experience in teaching postgraduate (M. Sc. and PH. D.) courses in (Air-Ocean Interaction, Advance synoptic meteorology, Advance Computer Sciences (MATLAB), Seminars and Methods to Write Researches). Supervised and Participation of commission discussion for (M. Sc. and PH. D.) Students in Department of Atmospheric Sciences.

COURSES TAUGHT:

Undergraduate	Graduate
Hydrometeorology – (second class)	Advance upper air layers – Ph.D. First course
Agro meteorology – (second class)	Air/Ocean Interaction – Ph.D. Second course

PROFESSIONAL AFFILIATIONS:

- Member of the Iraqi Society for Mathematics and Physics (since 1999).
- Consulate in Al-Btani Researches Center for Space and Astronomy (2002-2003).
- Participation of commissions examination (2008-2009-2010- 2011- 2012- 2013- 2014- 2015).
- Participation of many commissions in Department of Atmospheric Sciences, College and University.

PUBLICATIONS:

- [1] M. A. Al-Riahi, K. J. Al-Jumaily and **Osama T. Al-Taai** (2006): Shading Effect Using Horizontal Overhang of windows by Different Orientations. Al-Mustansiriyah J. of Science, Vol. 17, No. 2.

- [2] A. M. Al-Salihi, K. J. Al-Jumaily and **Osama T. Al-Taai** (2010): Estimation Global Solar Radiation on Horizontal Surfaces using Different Correlation Formulae for Baghdad city. Proceeding in 6th scientific conference of college of Science – Al-Mustansiriyah University, 2010, Baghdad, Iraq.
- [3] K. J. Al-Jumaily, A. M. Al-Salihi and **Osama T. Al-Taai** (2010): Evaluation of Meteosat-8 Measurements using Daily Global Solar Radiation for Tow Stations in Iraq. International Journal of Energy and Environment, Vol. 1, No. 4, pp.635-642.
- [4] **Osama T. Al-Taai** (2010): The relationship between solar radiation and sunshine duration for Baghdad city. J. Coll. Education, Al-Mustanasiriyah Univ., No. 3, pp.203 –209.
- [5] Abdulkhaliq A. Al-Naqeeb, Qassim M. Wadi and **Osama T. Al-Taai** (2011): Optimal Estimation of Critical Angle for the Wind Power (Energy) to Generate High Electrical Power in Baghdad City. J. Coll. Education, Al-Mustanasiriyah Univ., No. 6, pp.448 – 466.
- [6] Abdulkhaliq A. Al-Naqeeb, Qassim M. Wadi and **Osama T. Al-Taai** (2012): Estimation of the Operational Duration of Solar Cells (Chinese and German) According to Specific Properties of Components for Short Time Series Design in Baghdad's Streets City. J. Coll. Education, Al-Mustanasiriyah Univ., No. 6, pp.203 –209.
- [7] Thaer Kadum Jawad and **Osama T. Al-Taai** (2013): The Effect of Temperature on Soil Water Content in Baghdad City. Al-Mustansiriyah J. of Science, Vol. 24, No. 6.
- [8] **Osama T. Al-Taai** (2014): Interpolation the Missing Data of Air Temperature by Using Artificial Intelligence for Selected Iraqi Weather Stations. J. of Diyala for Pure sciences, college of Science – Diyala University, Vol. 10, No. 1, pp.102-111.
- [9] **Osama T. Al-Taai**, Qassim M. Wadi and Amani Ibraheem Al-Tmimi (2014): Assessment of a Viability of Wind Power in Iraq. **SciencePG** (American Journal of Electrical Power and Energy Systems), USA, Vol. 3, No. 3, pp.60-70.
- [10] **Osama T. Al-Taai** and Thaer Kadum Jawad (2015): The Effect of Relative Humidity and Surface Wind Speed on the Volumetric Water Content of the Soil for Selected Stations in Iraq. International Journal of Soil Mechanics and Foundations, Institute of Research Engineers and Doctors, USA, Vol. 2, No. 1.
- [11] Zahraa M. MohammedSalih and **Osama T. Al-Taai** (2015): The Influence of Temperature and Relative Humidity on the Concentrations of Suspended particulates (PM₁₀, TSP). Al-Mustansiriyah J. of Science, Vol. 26, No. 2.
- [12] Ruqyah Ahmed Khalaf, Rashid Hammoud Al-Naimi and **Osama T. Al-Taai** (2015): Study the Use of Diffusion Battery in Nucleation Cloud. Al-Mustansiriyah J. of Science, Vol. 26, No. 2.
- [13] **Osama T. Al-Taai**, Mohammed M. Ahmed and Thaer Kadum Jawad (2015): Influence of Rainfall on Soil Water Content in Iraq. International Journal of Agriculture Innovations and Research (**IJAIR ICV: 65.03, UIF: 1.126**), India, Vol. 4, No. 3.
- [14] **Osama T. Al-Taai** and Aseel D. Salman (2016): Change of Dew Point Temperature and Density of Saturated Water Vapor with High and its Impact on Cloud Cover. Journal of International Organization of Scientific Research (IOSR) (**AQCJ Impact Factor: 1.645**), India, Vol. 6, No. 1, pp. 06-13.
- [15] **Osama T. Al-Taai** and Zahraa M. Al-Ghabban (2016): The Influence of Relative Humidity on Concentrations (PM₁₀, TSP) in Baghdad City. Journal of Modern Environmental Science and Engineering (MESE), USA, Vol. 2, No. 1, pp. 562-573.
- [16] **Osama T. Al-Taai**, Dheyaa A. Al-Hassani and Ashwaq M. Mehdi (2016): Estimating the Soil Erosion by Using Rainfall Data for Selected Stations in Iraq. Open Access Library Journal (OALib), China, March 2016, Vol. 3, e2494.
- [17] **Osama T. Al-Taai**, Ahmed F. Hassoon and Luma M. R. Ahmed (2016): The Study of the Chemical Analysis of Gases (CO, CO₂) and Find A Relationship between Some Meteorological Variables and Concentrations of Gases. International Journal of General Chemistry, Institute of Research Engineers and Doctors, USA, Vol. 2, No. 1, pp. 5-16.
- [18] Aseel D. Salman and **Osama T. Al-Taai** (2016): Effect of the Cloud Cover on Solar Radiation in the Infrared Band over Baghdad City. Kasma Journal, (**SCIE Impact Factor: 0.071**), Maracaibo (Venezuela), Vol. 44, No. 2, pp. 98-108.
- [19] Saadiyah H. Halos, Mounim H. Al-Jiboori and **Osama T. Al-Taai** (2016): Aerosol Optical Properties Estimation over Iraq and Surrounding Regions using Best GIS Spatial Interpolation Method. Indian Journal of Natural Sciences (**Cited by Thomson Reuters for Zoological survey 2012, Impact Factor: 2.51**), India, Vol. 7, No. 38, pp. 11648-11654.

PROFESSIONAL DEVELOPMENT

- **Certifications:**

1. Certificate of Internet and Computing Core Certification (IC³), 2011.

2. Certificate cycle require to scientific computer for postgraduate studies in Iraqi Universities (Diploma, M.Sc., Ph. D.), 1999.
3. Certificate cycle of computer for scientific promotion five in the electronic computer center–Al-Mustansiriyah university to period from 20/03/2011 to 28/03/2011, and degree very good, 2011.
4. Certificate from International Journal of Agriculture Innovations and Research, India, 2014.
5. Certificate from Second International Conference on Advances in Bio-Informatics and Environmental Engineering-IREDD- ICABEE 2015, 18-19/April/2015, Rome-Italy.
6. Certificate from [Seventh Symposium in Atmospheric Science, 28-30/April/2015 in Istanbul Technical University and Istanbul Aydın University](#), İstanbul-Turkey.
7. Certificate from Fifth International Conference on Advances in Applied Science and Environmental Engineering-ASEE- IREDD-ICABEE 2016, 12-13/March/2016, Kuala Lumpur-Malaysia.
8. Certificate for reviewing papers from Science Publishing Group Journals (International Journal of Environmental Monitoring and Analysis), New York – USA, 2016.

- **Conferences:**

Participation for many international and domestic conferences:

1. Sixth Conference of the College of Science, University of Al-Mustansiriyah, Baghdad-Iraq.
2. Second International Conference on Advances in Bio-Informatics and Environmental Engineering-IREDD- ICABEE 2015, 18-19/April/2015, Rome-Italy.
3. [Seventh Symposium in Atmospheric Science, 28-30/April/2015 in Istanbul Technical University and Istanbul Aydın University](#), İstanbul-Turkey.
4. Fifth International Conference on Advances in Applied Science and Environmental Engineering-ASEE- IREDD- ICABEE 2016, 12-13/March/2016, Kuala Lumpur-Malaysia.

- **Workshops.**

Participation in workshops on renewable energies held in the Al-Mamon University College, 2014.

السيرة الذاتية

جامعة المستنصرية - كلية العلوم -

Mobile: +9647901988437

Email: osamaalqaqi77@uomustansiriyah.edu.iq

تعريفي:

تاريخ الميلاد: 1977/07/02 -
الاجتماعية:

الشهادات الدراسية:

2007 - المستنصرية،
2002 - الماجستير، المستنصرية،
1999 - الجوية، المستنصرية، بكالوريوس

الجوائز والتكريم الأكاديمي

كلية 2012 عميد كلية

التاريخ	الكلية	التكريم
2216 24/06/2008	مستنصرية	1 السيد عميد كلية العلوم،
4020 23/09/2008	مستنصرية	2 من السيد رئيس الجامعة المستنصرية المحترم
4414 06/11/1008	مستنصرية	3 السيد عميد كلية العلوم،
288 24/01/2010	مستنصرية	4 السيد عميد كلية العلوم،
624 09/02/2011	مستنصرية	5 السيد عميد كلية العلوم،
624 09/02/2011	مستنصرية	6 السيد عميد كلية العلوم،
5279 27/10/2011	مستنصرية	7 السيد عميد كلية العلوم،
5556 14/11/2011	مستنصرية	8 من السيد رئيس الجامعة المستنصرية المحترم
**** 2012	مستنصرية	9 السيد عميد كلية العلوم،
2326 201317/09/	جامعة بابل	10 من السيد عميد كلية التربية للعلوم الصرفة، جامعة بابل
11782 23/04/2014	مستنصرية	11 من السيد رئيس الجامعة المستنصرية المحترم
26953 19/10/2014	مستنصرية	12 من السيد رئيس الجامعة المستنصرية المحترم
613 22/02/2015	جامعة ديالى	13 من السيد عميد كلية العلوم، جامعة ديالى
529 01/03/2015	جامعة بابل	14 من السيد عميد كلية التربية للعلوم الصرفة، جامعة بابل
2809 18/05/2015	مستنصرية	15 السيد عميد كلية العلوم،
1984 26/07/2015	جامعة ديالى	16 من السيد عميد كلية العلوم، جامعة ديالى
21656 25/08/2015	مستنصرية	17 من السيد رئيس الجامعة المستنصرية المحترم
22591 06/09/2015	مستنصرية	18 من السيد رئيس الجامعة المستنصرية المحترم
4759 15/09/2015	مستنصرية	19 السيد عميد كلية العلوم،
2391 08/09/2016	جامعة ديالى	20 من السيد عميد كلية العلوم، جامعة ديالى
2591 03/10/2016	جامعة ديالى	21 من السيد عميد كلية العلوم، جامعة ديالى
25275 09/11/2016	مستنصرية	22 من السيد رئيس الجامعة المستنصرية المحترم

الخبرة الأكاديمية والتدريس:

- 2002-2006: كلية المستنصرية.
- 2007-2011: لاسلكية (Davis Pro plus) كلية المستنصرية.
- 2012 : كلية المستنصرية.
- **الدراسات الأولية:** (14) تدريس الجامعية (Tropical Meteorology, Introduction to Atmospheric Sciences, Synoptic, Radiation, Prediction Atmosphere, Observation Atmosphere, Aircraft Meteorology, Computer Sciences and others). على مشاريع البحوث لطلبة البكالوريوس .
- **الدراسات العليا:** (9) تدريس العليا (ماجستير (Air-Ocean Interaction, Advance synoptic) (meteorology, Advance Computer Sciences (MATLAB), Seminars and Methods to Write Researches رسائل الماجستير واطراح الدكتوراه .

المقررات الدراسية التي تم تدريسها:

الدراسات الأولية	الدراسات العليا
انواء مائية – ثانية	طبقات جو عليا متقدم -
انواء زراعية – ثانية	تفاعلات الهواء / المحيط -

الانتساب المهني او الجمعيات:

- الامتحانية (2008 2009 2010 2011 2012 2013 2014 2015).
- عضوية العديد العلمية رية في القسم والكلية.

العلمية

- [1] M. A. Al-Riahi, K. J. Al-Jumaily and **Osama T. Al-Taai** (2006): Shading Effect Using Horizontal Overhang of windows by Different Orientations. Al-Mustansiriyyah J. of Science, Vol. 17, No. 2.
- [2] A. M. Al-Salihi, K. J. Al-Jumaily and **Osama T. Al-Taai** (2010): Estimation Global Solar Radiation on Horizontal Surfaces using Different Correlation Formulae for Baghdad city. Proceeding in 6th scientific conference of college of Science – Al-Mustansiriyyah University, 2010, Baghdad, Iraq.
- [3] K. J. Al-Jumaily, A. M. Al-Salihi and **Osama T. Al-Taai** (2010): Evaluation of Meteosat-8 Measurements using Daily Global Solar Radiation for Tow Stations in Iraq. International Journal of Energy and Environment, Vol. 1, No. 4, pp.635-642.
- [4] **Osama T. Al-Taai** (2010): The relationship between solar radiation and sunshine duration for Baghdad city. J. Coll. Education, Al-Mustansiriyyah Univ., No. 3, pp.203 –209.
- [5] Abdulkhaliq A. Al-Naqeeb, Qassim M. Wadi and **Osama T. Al-Taai** (2011): Optimal Estimation of Critical Angle for the Wind Power (Energy) to Generate High Electrical Power in Baghdad City. J. Coll. Education, Al-Mustansiriyyah Univ., No. 6, pp.448 – 466.
- [6] Abdulkhaliq A. Al-Naqeeb, Qassim M. Wadi and **Osama T. Al-Taai** (2012): Estimation of the Operational Duration of Solar Cells (Chinese and German) According to Specific Properties of Components for Short Time Series Design in Baghdad's Streets City. J. Coll. Education, Al-Mustansiriyyah Univ., No. 6, pp.203 –209.
- [7] Thaer Kadum Jawad and **Osama T. Al-Taai** (2013): The Effect of Temperature on Soil Water Content in Baghdad City. Al-Mustansiriyyah J. of Science, Vol. 24, No. 6.
- [8] **Osama T. Al-Taai** (2014): Interpolation the Missing Data of Air Temperature by Using Artificial Intelligence for Selected Iraqi Weather Stations. J. of Diyala for Pure sciences, college of Science – Diyala University, Vol. 10, No. 1, pp.102-111.

- [9] **Osama T. Al-Taai**, Qassim M. Wadi and Amani Ibraheem Al-Tmimi (2014): Assessment of a Viability of Wind Power in Iraq. **SciencePG** (American Journal of Electrical Power and Energy Systems), USA, Vol. 3, No. 3, pp.60-70.
- [10] **Osama T. Al-Taai** and Thaer Kadum Jawad (2015): The Effect of Relative Humidity and Surface Wind Speed on the Volumetric Water Content of the Soil for Selected Stations in Iraq. International Journal of Soil Mechanics and Foundations, Institute of Research Engineers and Doctors, USA, Vol. 2, No. 1.
- [11] Zahraa M. MohammedSalih and **Osama T. Al-Taai** (2015): The Influence of Temperature and Relative Humidity on the Concentrations of Suspended particulates (PM₁₀, TSP). Al-Mustansiriyah J. of Science, Vol. 26, No. 2.
- [12] Ruqyah Ahmed Khalaf, Rashid Hammoud Al-Naimi and **Osama T. Al-Taai** (2015): Study the Use of Diffusion Battery in Nucleation Cloud. Al-Mustansiriyah J. of Science, Vol. 26, No. 2.
- [13] **Osama T. Al-Taai**, Mohammed M. Ahmed and Thaer Kadum Jawad (2015): Influence of Rainfall on Soil Water Content in Iraq. International Journal of Agriculture Innovations and Research (IJAIR ICV: 65.03, UIF: 1.126), India, Vol. 4, No. 3.
- [14] **Osama T. Al-Taai** and Aseel D. Salman (2016): Change of Dew Point Temperature and Density of Saturated Water Vapor with High and its Impact on Cloud Cover. Journal of International Organization of Scientific Research (IOSR) (AQCJ Impact Factor: 1.645), India, Vol. 6, No. 1, pp. 06-13.
- [15] **Osama T. Al-Taai** and Zahraa M. Al-Ghabban (2016): The Influence of Relative Humidity on Concentrations (PM₁₀, TSP) in Baghdad City. Journal of Modern Environmental Science and Engineering (MESE), USA, Vol. 2, No. 1, pp. 562-573.
- [16] **Osama T. Al-Taai**, Dheyaa A. Al-Hassani and Ashwaq M. Mehdi (2016): Estimating the Soil Erosion by Using Rainfall Data for Selected Stations in Iraq. Open Access Library Journal (OALib), China, March 2016, Vol. 3, e2494.
- [17] **Osama T. Al-Taai**, Ahmed F. Hassoon and Luma M. R. Ahmed (2016): The Study of the Chemical Analysis of Gases (CO, CO₂) and Find A Relationship between Some Meteorological Variables and Concentrations of Gases. International Journal of General Chemistry, Institute of Research Engineers and Doctors, USA, Vol. 2, No. 1, pp. 5-16.
- [18] Aseel D. Salman and **Osama T. Al-Taai** (2016): Effect of the Cloud Cover on Solar Radiation in the Infrared Band over Baghdad City. Kasma Journal, (SCIE Impact Factor: 0.071), Maracaibo (Venezuela), Vol. 44, No. 2, pp. 98-108.
- [19] Saadiyah H. Halos, Mounim H. Al-Jiboori and **Osama T. Al-Taai** (2016): Aerosol Optical Properties Estimation over Iraq and Surrounding Regions using Best GIS Spatial Interpolation Method. Indian Journal of Natural Sciences (Cited by Thomson Reuters for Zoological survey 2012, Impact Factor: 2.51), India, Vol. 7, No. 38, pp. 11648-11654.

طوير المهارات:

• الشهادات التقديرية:

1. شهادة في مهارات الحاسوب.
2. شهادة مراجعين ومقيمين البحوث في العديد من المجالات العالمية والمحلية.
3. شهادة في IC3 لتقنيات الحاسوب.

:

1. المؤتمر العلمي السادس لكلية العلوم, الجامعة المستنصرية 2006.
2. في اسطنبول, تركيا 2015.
3. المؤتمر الدولي الثاني في روما, ايطاليا 2015.
4. في كوالالمبور, ماليزيا 2016.

:

- المشاركة في ورشة العمل حول الطاقات المتجددة في كلية المامون الجامعة 2014.