

CURRICULUM VITAE



CONTACT INFORMATION

Full name: Reda Hassanien Emam Hassanien

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RESEARCH OBJECTIVE

Lecturer and researcher with 19 years of experience teaching courses in both undergraduate and postgraduate levels. Published over 25 articles in peer-reviewed journals. Thereby, seeking to leverage these experiences into a research project regarding new applications of Solar energy in Agriculture, particularly, the applications of Solar Energy in Agricultural greenhouses.

EDUCATION

Doctor of Philosophy (Agricultural Engineering (September 2009- 2013), China Agriculture University

Master of Agricultural Engineering (2004- 2007), Cairo University, Faculty of Agriculture.

Bachelor of Agricultural Engineering (1999- 2003), Cairo University, Faculty of Agriculture.

EMPLOYMENT HISTORY

1. Visiting scientist at Yunnan Normal University, Solar Energy Research Institute (3/2023 to 12/2023)
2. Associate professor at Cairo university, faculty of Agriculture, Agricultural Engineering Department (2018-present)
3. Postdoctoral Fellow at Yunnan Normal University, Solar Energy Research Institute (2014-2017)
4. Assistant professor at Cairo university, faculty of Agriculture, Agricultural Engineering Department (2013 -2018)
5. Assistant Lecturer at Cairo university, faculty of Agriculture, Agricultural Engineering Department. (2008-2013)
6. Demonstrator at Cairo university, faculty of Agriculture, Agricultural Engineering Department (2004-2007)

DISTINCTIONS/AWARDS

1. State Incentive Award in Agricultural Sciences, 2020.
2. Cairo University Incentive Award in Agricultural Sciences, 2019.
3. Cairo university award for international publications (2014, 2016, 2017, and 2020).
4. Young Talent Scientist Program Scholarship from the Ministry of Science and Technology in China (May, 2016 to December, 2017).

EDITORIAL POSITION

<http://ojs.bilpublishing.com/index.php/jaeser/about/editorialTeam>

REVIEWER OF JOURNAL PAPERS

I am serving as a reviewer for some international journals:

1. Applied energy
2. Journal of agriculture and food research
3. Information processing in agriculture
4. Electrical energy system
5. Renewable and sustainable energy review
6. Agronomy
7. Energies
8. Journal of environmental management

TEACHING EXPERIENCES

I have been participating in teaching the Agricultural Engineering Courses at Cairo University -Faculty of Agriculture- Agricultural Engineering Department. (2004-present) such as:

1. Planning and Design of Agricultural Structures
2. Greenhouses Engineering
3. Renewable Energy
4. Principles of Agricultural Engineering
5. Computer Application
6. Principals of Heat Transfer
7. During my M.sc I organized a seminar series on research methods
8. Trainer for Summer courses in summer training program in Agricultural Engineering Department

RESEARCH INTERESTS AND CONTRIBUTIONS

I am working as Associate Professor at Cairo University, Faculty of Agriculture- Agricultural Engineering Department. My main research interests are: Renewable Energy Applications in Agricultural Sector particularly, Solar Energy application in Agricultural greenhouses (Agro-photovoltaics, solar cooling, heating systems, and solar drying). Agricultural Bio-environment and Energy Engineering, Environmental Control in Greenhouses (natural and mechanical ventilation, Cooling and Heating systems. In addition, the effect of sound waves on the growth of plants.

POST-DOCTORAL FELLOWS

Yunnan Normal University, Solar Energy Research Institute, China (October, 2014 - November 2017)

RESEARCH FUNDING AND PROJECTS

1. **Consultant** of two undergraduate projects funded from the ministry of higher education in Egypt, namely:
 - a) A novel solar drying system by using the Photovoltaic panels (2019) total fund **(50,000 EGP)**
 - b) A novel solar drying system by using the evacuated tube solar collector (2020) total fund **(50,000 EGP)**

2. **Principle investigator** of a project under title: Advanced Applications of Solar Energy in Greenhouses for energy and food production (2019-2022). Project ID: 33456, total fund (1,445,000 EGP)

UNDERGRADUATE DESIGN PROJECTS

Principal supervisor for four under graduate projects in four years (2019-2020-2021,2022) with a total number of 30 students.

SUPERVISOR FOR POST GRADUATE STUDENTS

I am supervising 2 Ph.D. students and 2 M.Sc. students

1. Dina Saber **Ph.D.** student (2019- PRESENT)
Principal supervisor
2. Iman Eltomy **Ph.D.** student (2020- 2023)
Co-supervisor (with Dr. Y. Biomy)
3. Eslam Fawzy **M.Sc.** student
Co-supervisor (with Dr. G. M. Mansour) (2021- 2024)
4. RANIA OMRAN **M.Sc.** Student (2019- PRESENT)
Co-supervisor (with Dr. Y. Biomy)

PUBLICATIONS

REFEREED JOURNAL PUBLICATIONS

- [1] Z. Zhang, M. Li, Y. Wang, G. Li, T. Xing, M. Yao, **R.H.E. Hassanien**, Study on the performance of heat pump drying system under the synergistic effect of humidity enthalpy enhancement and solar heat storage under low temperature working conditions, Applied Thermal Engineering, 244 (2024) 122626.
- [2] Y. Liu, M. Li, **R.H. E. Hassanien**, Y. Wang, R. Tang, Y. Zhang, Fabrication of shape-stable glycine water-based phase-change material using modified expanded graphite for cold energy storage, Energy, 290 (2024) 130306.
- [3] T. Hadibi, D. Mennouche, A. Boubekri, M. Arıcı, Y. Wang, M. Li, **R.H. E. Hassanien**, S.S. Shirkole, Experimental investigation, performance analysis, and optimization of hot air convective drying of date fruits via response surface methodology, Renewable Energy, (2024) 120404.
- [4] E. Fawzy, **R.H. E. Hassanien**, G. Mansour, A. Suloma, Impact of Organic Waste Digestion on Sustainability of Tilapia - Basil Decoupled Aquaponic System, Egyptian Journal of Aquatic Biology and Fisheries, 28 (1) (2024) 185-200.
- [5] **R.H.E. Hassanein**, E.O. Altomy, Y.B. Abd Elhay, Improving the performance of an indirect solar dryer using moisture adsorbent materials, Egyptian Journal of Chemistry, 66 (6) (2023) 343-351.
- [6] **R.H.E. Hassanien**, M.M. Ibrahim, A.E. Ghaly, E.N. Abdelrahman, Effect of photovoltaics shading on the growth of chili pepper in controlled greenhouses, Heliyon, 8 (2) (2022) e08877.

- [7] **R.H. Hassanien**, L. Ming, INFLUENCE OF OPAQUE PHOTOVOLTAIC SHADING ON MICROCLIMATE AND GROWTH OF STRAWBERRY IN GREENHOUSES, *Misr Journal of Agricultural Engineering*, 38 (4) (2021) 377-390.
- [8] **R.H.E. Hassanien**, B.M. Li, T.Z. Hou, Dual effect of audible sound technology on the growth and endogenous hormones of strawberry, *Agricultural Engineering International: CIGR Journal*, 22 (3) (2020) 262-273.
- [9] Y. Xu, M. Li, X. Luo, X. Ma, Y. Wang, G. Li, **R.H.E. Hassanien**, Experimental investigation of solar photovoltaic operated ice thermal storage air-conditioning system, *International Journal of Refrigeration*, 86 (2018) 258-272.
- [10] Y. Wang, M. Li, **R.H.E. Hassanien**, X. Ma, G. Li, Grid-connected semitransparent building-integrated photovoltaic system: The comprehensive case study of the 120kWp plant in Kunming, China, *International Journal of Photoenergy*, 2018 (2018).
- [11] W. Wang, M. Li, **R.H.E. Hassanien**, Y. Wang, L. Yang, Thermal performance of indirect forced convection solar dryer and kinetics analysis of mango, *Applied Thermal Engineering*, 134 (2018) 310-321.
- [12] R.H.E. Hassanien, M. Li, F. Yin, The integration of semi-transparent photovoltaics on greenhouse roof for energy and plant production, *Renew. Energy* 121 (2018) 377-388.
- [13] R.H.E. Hassanien, M. Li, Y. Tang, The evacuated tube solar collector assisted heat pump for heating greenhouses, *Energy and Buildings*, 169 (2018) 305-318.
- [14] Y. Xu, X. Ma, R.H.E. Hassanien, X. Luo, G. Li, M. Li, Performance analysis of static ice refrigeration air conditioning system driven by household distributed photovoltaic energy system, *Solar Energy*, 158 (2017) 147-160.
- [15] W. Wang, M. Li, R.H.E. Hassanien, M.E. Ji, Z. Feng, Optimization of thermal performance of the parabolic trough solar collector systems based on GA-BP neural network model, *International Journal of Green Energy*, 14 (10) (2017) 819-830.
- [16] R.H.E. Hassanien, M. Li, Influences of greenhouse-integrated semi-transparent photovoltaics on microclimate and lettuce growth, *Int. J. Agric. Biol. Eng.*, 10 (6) (2017) 11-22.
- [17] Y.F. Xu, M. Li, X. Luo, Y.F. Wang, Q.F. Yu, R.H.E. Hassanien, Experimental investigation of static ice refrigeration air conditioning system driven by distributed photovoltaic energy system, in: *IOP Conference Series: Earth and Environmental Science*, 2016.
- [18] Y. Xu, M. Li, R.H.E. Hassanien, Energy Conversion and Transmission Characteristics Analysis of Ice Storage Air Conditioning System Driven by Distributed Photovoltaic Energy System, *International Journal of Photoenergy*, 2016 (2016).
- [19] Y. Qiu, M. Li, R.H.E. Hassanien, Y. Wang, X. Luo, Q. Yu, Performance and operation mode analysis of a heat recovery and thermal storage solar-assisted heat pump drying system, *Solar Energy*, 137 (2016) 225-235.
- [20] M. Li, C. Xu, R.H.E. Hassanien, Y. Xu, B. Zhuang, Experimental investigation on the performance of a solar powered lithium bromide–water absorption cooling system, *International Journal of Refrigeration*, 71 (2016) 46-59.
- [21] R.H.E. Hassanien, M. Li, W. Dong Lin, Advanced applications of solar energy in agricultural greenhouses, *Renew. Sustain Energy Rev.*, 54 (2016) 989-1001.
- [22] F. Chen, M. Li, R. Hassanien Emam Hassanien, X. Luo, Y. Hong, Z. Feng, M. Ji, P. Zhang, Study on the Optical Properties of Triangular Cavity Absorber for Parabolic Trough Solar Concentrator, *International Journal of Photoenergy*, 2015 (2015).
- [23] R.H.E. Hassanien, T.Z. Hou, Y.F. Li, B.M. Li, Advances in Effects of Sound Waves on Plants, *Journal of Integrative Agriculture*, 13 (2) (2014) 335-348.

ORAL CONFERENCE PRESENTATIONS

- 1) Oral-presentation in proceeding of “The 18th world congress of CIGR Conference” 17-19 Sep. **2014** held in **Beijing**, China.
- 2) Oral-presentation in proceeding of “The 12th International Conference of Desert Technology “16-19 Nov. **2015** held in **Cairo**, Egypt.
- 3) Oral-presentation in proceeding of “The 2nd International Conference on New Energy and Future Energy System” 22-25 Sep. **2017** held in **Kunming**- China.
- 4) Oral-presentation in proceeding of “The 3rd International Conference on New Energy and Future Energy System” 16-19 Aug. **2018** held in **Shanghai**- China

TOTAL CITATIONS AND H-INDEX, 2022

For all publications	Scopus	Google scholar
Total Citation	1030	1500
Highly Cited	258	368
H-index	14	15

INTERNATIONAL TRAINING COUSES

- 1) The 11th workshop of CIGR (the international commission of Agricultural Engineering) section II on "ANIMAL HOUSING IN HOT CLIMATES " 1 to 4 Apr. **2007**, held in Cairo.
- 2) The 13th workshop of CIGR (the international commission of Agricultural Engineering) section II on "ANIMAL HOUSING IN HOT CLIMATES " 21-25 Oct. **2009** held in Chongqing, China.
- 3) The International Training course on New Applied Technology of Solar Energy Adapted to Tropic and Sub-Tropic Regions 10- 30 Nov. **2013** held in Kunming- China.
- 4) Renewable Energy Summer School 6-11 Jul., **2019** held in Cairo, ASRT.
- 5) Seminar on Agricultural Mechanization for Developing Countries” sponsored by the Ministry of Commerce and organized by Chinese Academy of Agricultural Mechanization Sciences from August 18th, 2021 to September 7th, **2021** in Beijing, the People’s Republic of China.
- 6) Training Course on Technology of Agricultural Automatic Irrigation and Water Conservancy for Developing Countries” sponsored by the Ministry of Commerce and organized by Chinese Academy of Agricultural Mechanization Sciences from August 26th, 2021 to September 24th, **2021** in Beijing, the People’s Republic (ONLINE).
- 7) Renewable Energy Summer School held in Cairo, ASRT, Cairo. Academy of Scientific Research and Technology (ASRT) from 6th July -11th July, **2019**. (ONLINE)

- 8) 5th International Training Workshop of Waste to Energy 12-26th Nov., **2021**, China (ONLINE)
- 9) I have completed a number of lectures ONLINE by Elsevier Publishing Campus such as :(
- Transparency in Peer Review
 - make a Career in Research
 - how to respond to reviewers' comments,
 - Funding Hacks for Researchers
 - 10 tips for writing a truly terrible journal article
 - 5 diseases ailing research – and how to cure them.

LANGUAGES AND SKILLS

- 1) **Arabic: Native**
- 2) **English; Excellent**
- 3) **Chinese: Beginner**

REFERENCES

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