

PERSONAL INFORMATION

Shaban Gouda | PhD



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Sex Male | **Date of birth** 11/12/1988 | **Nationality** Egyptian

WORK EXPERIENCE

2023-Present

Postdoctoral

Research Institute of Tsinghua University in Shenzhen, China.

2020-Present

Assistant Professor

Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Toukh, Qalubia 13736, Egypt.

2015-2020

Assistant Lecturer

Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Toukh, Qalubia 13736, Egypt.

2011-2015

Demonstrator

Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Toukh, Qalubia 13736, Egypt.

EDUCATION

2016-2019

Doctor of Philosophy (Ph.D.)

Huazhong Agricultural University (HZAU), College of Engineering, Wuhan, China.

2011-2015

Master of Science (M.Sc.)

Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Toukh, Qalubia 13736, Egypt.

2006-2010

Bachelor of Science (B.Sc.)

Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Toukh, Qalubia 13736, Egypt.

PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)

English

Communication skills ▪ I lived in China for 5 years and have a good communication with my Chinese friends and lab mates.

Computer skills Matlab, SolidWork, CurveExpert, Excel, OrignLab, MiniTab
Microsoft Office™ tools

Teaching skills ▪ Undergraduate: Renewable Energies, Environmental Control for Agricultural farms, Greenhouse Engineering, System analysis, Engineering Drawing, Mathematics, Fundamentals of Biosystem Engineering.
▪ Postgraduate: Renewable Energy, Special studies in solar thermal applications, Special studies in Solar Photovoltaic application.

Supervision ▪ **Master students:**
1. Biogas production
2. Solar collectors' simulation.
3. Solar PV.

Editorship

September 2018-2019 Editorial Board Member, Journal of Management Science & Engineering Research (Bilingual)

December 2018-2022 Editorial Board Member, International Journal of Energy and Power Engineering (IJEPE) (Science Publishing Group)

Workshops & Conferences

August 26th- September 22nd 2016 Attended for 28 days on extensive training program of small hydropower, China.

May 16th – May 30th 2019 Attended for 14 days on the 2019 New Energy Technology and International Application Training Course hosted by The People's Republic of China Ministry of Science and Technology and Wuhan Institute of New Energy.

Awards

2019 “The 2019 Research Contribution Award”, Huazhong Agricultural University, Wuhan, China.

2018, 2019, 2020, 2021, 2022 Awards of “Scientific Excellence days”, Benha University, Egypt.

Affiliation with Scientific Journals

Reviewer for Energy Conversion and Management (Elsevier).
Reviewer for Applied Energy (Elsevier).
Reviewer for Journal of Cleaner Production (Elsevier).
Reviewer for Renewable Energy (Elsevier).
Journal of Environmental Management (Elsevier).
Reviewer for Solar Energy (Elsevier).
Reviewer for Chemosphere (Elsevier).
Reviewer for Food Chemistry: X (Elsevier).
Reviewer for IEEE Transactions on Energy Conversion (IEEE explore).
Reviewer for Energy, Ecology and Environment (Springer Nature).

Reviewer for Cellulose (Springer Nature).
 Environmental Monitoring and Assessment (Springer Nature).
 International Journal of Modelling and Simulation (Taylor & Francis).
 International journal of green energy (Taylor & Francis).
 Reviewer for energies (MDPI).
 Reviewer for Sustainability (MDPI).
 Reviewer for Karbala International Journal of Modern Science (Elsevier).
 Reviewer for Journal of Daylighting (Solarlits).
 Reviewer for World Journal of Engineering (Emerald).
 Reviewer for Atmósfera (the Universidad Nacional Autónoma de México).
 Reviewer for Current Alternative Energy (Bentham Science).
 Reviewer for Journal of Management Science & Engineering Research (Bilingual).
 Reviewer for International Journal of Energy and Power Engineering (IJEPE) (Science Publishing Group).

Publications

1. Hussein, Z., Yuan, Q., Luo, S., Xu, C., & **Gouda, S. G.** (2024). Plantable Biodegradable Pots as a Cleaner Product from Biomaterials: Characterization and Optimization of Physical and Mechanical Properties. *Arabian Journal for Science and Engineering*, 1-11. (IF= 2.9).
2. Hussein, Z., Yuan, Q., Xu, C., Zhang, X., & **Gouda, S. G.** (2023). Effect of drying methods and conditions and straw type and ratio in the mixture on physical and mechanical properties of biodegradable pots-based sustainable biomaterials. *Cellulose*, 30(17), 11071-11086. (IF=5.7).
3. Ahmed, A., Taha, A., Samir, A., Essam A., & **Gouda, S*** . (2023). Enhancement of Biogas Production: Short-Term Evaluation of Biogas Unit in Egypt. *Annals of Agricultural Science, Moshtohor*, 61(2), 357-66.
4. Su, X., He, J., Khan, M.A., Chang, K., Liu, Y., Guo, G., Li, X., Jin, F., Kuang, M., **Gouda, S.**, & Huang, Q. (2023). Potential Application Performance of Hydrochar from Kitchen Waste: Effects of Salt, Oil, Moisture, and pH. *Toxics*, 11(8), 679. (IF=4.6).
5. Lin, L., Qin, J., Zhang, Y., Yin, J., Guo, G., Khan, M. A., **Gouda, S. G.**, ... & Huang, Q. (2023). Assessing the suitability of municipal sewage sludge and coconut bran as breeding medium for *Oryza sativa* L. seedlings and developing a standardized substrate. *Journal of Environmental Management*, 344, 118644. (IF= 8.70).
6. Wang, Q., Huang, Q., Wang, J., Li, H., Qin, J., Li, X., **Gouda, S.G.**, Liu, Y., Liu, Q., Guo, G., ... & Wang, J. (2022). Ecological circular agriculture: A case study evaluating biogas slurry applied to rice in two soils. *Chemosphere*, 301, 134628. (IF= 8.943).
7. Jjin, K., Pezzuolo, A., **Gouda, S.G.**, Jia, S., Eraky, M., Ran, Y., Chen, M., ... & Ai, P. (2022). Valorization of bio-fertilizer from anaerobic digestate through ammonia stripping process: A practical and sustainable approach towards circular economy. *Environmental Technology & Innovation*, 27, 102414. (IF=7.758).
8. Xu, C., Zhang, X., Hussein, Z., Wang, P., Chen, R., Yuan, Q., Gao, Y., Song, N., & **Gouda, S. G.** (2021). Influence of the structure and properties of lignocellulose on the physicochemical characteristics of lignocellulose-based residues used as

- an environmentally friendly substrate. *Science of the Total Environment*, 790, 148089. <https://doi.org/10.1016/j.scitotenv.2021.148089>. (IF=10.753).
9. Wang, P., Zhang, X., Gouda, S. G., & Yuan, Q. (2020). Humidification-dehumidification process used for the concentration and nutrient recovery of biogas slurry. *Journal of Cleaner Production*, 247, 119142. (IF=11.1).
 10. Gouda, S. G.* , Hussein, Z., Luo, S., & Yuan, Q. (2020). Review of empirical solar radiation models for estimating global solar radiation of various climate zones of China. *Progress in Physical Geography: Earth and Environment*, 44(2), 168-188. (IF=3.758).
 11. Gouda, S. G.* , Hussein, Z., Luo, S., & Yuan, Q. (2019). Model selection for accurate daily global solar radiation prediction in China. *Journal of cleaner production*, 221, 132-144. (IF=11.1).
 12. Gouda, S. G., Hussein, Z., Luo, S., Wang, P., Cao, H., & Yuan, Q. (2018). Empirical models for estimating global solar radiation in Wuhan City, China. *The European Physical Journal Plus*, 133, 1-10. (IF=4.283).
 13. Gouda, S. G., & Yuan, Q. (2019). Reply to “Reply to [Comments on “Classification of solar radiation zones and general models for estimating the daily global solar radiation on horizontal surfaces in China”][Energy Convers. Manage.(2017) 10.043][Energy Convers. Manage.(2018) 05.051], by Liu et al.”. *Energy Conversion and Management*, 198, 110463. (IF=11.533).
 14. Gouda, S. G.* , Yuan, Q.* . (2018). Corrigendum to ‘Comments on “Classification of solar radiation zones and general models for estimating the daily global solar radiation on horizontal surfaces in China”, by Liu et al. [Energy Convers. Manage. (2017) 10.043.] [Energy Convers. Manage. (in press)]. *Energy Conversion and Management*, 10.1016/j.enconman.2018.05.103. (IF=11.533).
 15. Gouda, S. G., & Yuan, Q. (2018). Comments on “Classification of solar radiation zones and general models for estimating the daily global solar radiation on horizontal surfaces in China”, by Liu et al.[Energy Conversion and Management, 2017.10. 043.]. *Energy Conversion and Management*, 168, 651-652. (IF=11.533).
 16. Shuai, L., Yuan, Q., Gouda, S., & Yang, L. (2018). “Parameters Calibration of Vermicomposting Nursery Substrate with Discrete Element Method Based on JKR Contact Model.”. *Nongye Jixie Xuebao/Transactions of the Chinese Society for Agricultural Machinery*, 04:1-17. 10.6041/j.issn.1000-1298.2018.04.040. (in Chinese).
 17. Gouda, S. G., El-Haddad, Z. A., Bahnasawy, A.H., W & Ali, S.A., (2015). Developing and validating soil temperature model under Egyptian conditions. *20th conference of Misr Society of Agricultural Engineering*, 12 December.
 18. Gouda, S. G. Using of geothermal energy for heating and cooling of agricultural structures. *M.Sc. thesis, Benha University, Egypt*.