

# Saad Motahhir

## List of selected publications

(as of October 2023)

- Motahhir, S.**, El Hammoumi, A., & El Ghzizal, A. (2020). The Most Used MPPT Algorithms: Review and the Suitable Low-cost Embedded Board for Each Algorithm. *Journal of Cleaner Production (Elsevier)*, 118983. <https://doi.org/10.1016/j.jclepro.2019.118983>
- Motahhir, S.**, Chouder, A., El Hammoumi, A., Benyoucef, A., El Ghzizal, A., Kichou, S., Kara, K., Sanjeevikumar, P., Silvestre, S. (2021) Optimal energy harvesting from a multistrings pv generator based on ABC algorithm. *IEEE Systems Journal (IEEE)*, 15(3), 4137 - 4144. <https://doi.org/10.1109/JSYST.2020.2997744>
- El Hammoumi, A., Chalh, A., Allouhi, A., **Motahhir, S.**, El Ghzizal, A., & Derouich, A. (2020). Design and construction of a test bench to investigate the potential of floating PV systems. *Journal of Cleaner Production (Elsevier)*, 123917. <https://doi.org/10.1016/j.jclepro.2020.123917>
- Chtita, S., Derouich, A., **Motahhir, S.**, & Ghzizal, A. E. (2023). A new MPPT design using arithmetic optimization algorithm for PV energy storage systems operating under partial shading conditions. *Energy Conversion and Management*, 289, 117197. <https://doi.org/10.1016/j.enconman.2023.117197>
- Ferahtia, S., Houari, A., Rezk, H., Djerioui, A., Machmoum, M., **Motahhir, S.**, & Ait-Ahmed, M. (2023). Red-tailed hawk algorithm for numerical optimization and real-world problems. *Scientific Reports*, 13(1), 12950. <https://doi.org/10.1038/s41598-023-38778-3>