

List of Publications

Book Chapters

1. **Aamir Mehmood**, J. Ren, “Renewable Energy Driven Desalination for More Water and Less Carbon”. In Renewable-Energy-Driven Future, 333-372, Elsevier, 2021, [Chapter 11]. <https://doi.org/10.1016/B978-0-12-820539-6.00011-X>

Journal Publications

1. **Aamir Mehmood**, L. Zhang, J. Ren, “A multi-stage optimization-based decision-making framework for sustainable hybrid energy system in the residential sector”. [J] Sustainable Futures, Vol. 6, 100122, Dec 2023. [IF: 5.5] <https://doi.org/10.1016/j.sfr.2023.10012>
2. **Aamir Mehmood**, M.A. Moktadir, J. Zhou, J. Ren, Y. Man, L. Zhang, “Energy sustainability blueprint: A critical analysis of macro and micro influential factors in Pakistan”. [J] Energy for Sustainable Development, Vol. 77, 101311, Dec 2023. [IF: 5.5] <https://doi.org/10.1016/j.esd.2023.101311>
3. **Aamir Mehmood**, J. Ren, L. Zhang, “Achieving energy sustainability by using solar PV: System modelling and comprehensive techno-economic-environmental analysis”. [J] Energy Strategy Reviews, Vol. 49, 101126, Sep 2023. [IF: 8.2] <https://doi.org/10.1016/j.esr.2023.101126>
4. Z. Said, M. Iqbal, **Aamir Mehmood**, T.T. Le, H.M. Ali, D.N. Cao, P.Q.P. Nguyen, N.D.K. Pham, “Nanofluids-based solar collectors as sustainable energy technology towards net-zero: Recent advances, environmental impact, challenges, and perspectives”. [J] Chemical Engineering and Processing – Process Intensification, Vol. 191, 109477, Sep 2023. [IF: 4.3] <https://doi.org/10.1016/j.cep.2023.109477>
5. **Aamir Mehmood**, L. Zhang, J. Ren, T. Zayed, C.K.M. Lee, “Multi-facet assessment and ranking of alternatives for conceptualizing sustainable hybrid energy infrastructure in Pakistan based on evidential reasoning driven probabilistic tool”. [J] Journal of Cleaner Production, Vol. 378, 134566, December 2022. [IF: 11.1] <https://doi.org/10.1016/j.jclepro.2022.134566>

6. **Aamir Mehmood**, M. Iqbal, L. Zhang, H. Xiao, J. Ren, “An application of dimensional reduction approach for evaluating energy generation alternatives for energy sustainability”. [J] Energy Reports, Vol. 8(8), 605-614, Nov 2022. [IF: 5.2] <https://doi.org/10.1016/j.egy.2022.09.199>
7. **Aamir Mehmood**, R. Lin, L. Zhang, C.K.M. Lee, J. Ren, “Qualitative mapping of barriers to the renewable’s development against energy literacy dimensions: A case study of Pakistan”. [J] Energy Reports, Vol. 8(3), 332-337, June 2022. [IF: 5.2] <https://doi.org/10.1016/j.egy.2022.01.050>
8. Y. Ayub, **Aamir Mehmood**, J. Ren, C.K.M. Lee, “Sustainable recycling of poultry litter to value-added products in developing countries of South Asia”. [J] Journal of Cleaner Production, Vol. 357, 132029, July 2022. [IF: 11.1] <https://doi.org/10.1016/j.jclepro.2022.132029>
9. I.A. Qureshi, A. Waqas, M. Ali, **Aamir Mehmood**, A. Javed, “Performance evaluation of ORC system using evaluated flat plate photovoltaic-thermal collector as an evaporator”. [J] Solar Energy, Vol. 230, 859-873, Dec 2021. [IF: 6.7] <https://doi.org/10.1016/j.solener.2021.10.087>
10. A.T. Khan, A. Khan, S. Li, S. Bakhsh, **Aamir Mehmood**, J. Zaib, “Optimally configured gated recurrent unit using hyperband for the long-term forecasting of photovoltaic plant”. [J] Renewable Energy Focus, Vol. 39, 49-58, Dec 2021. [IF: 4.8] <https://doi.org/10.1016/j.ref.2021.07.002>
11. F. Mehmood, M.U. Ghani, M.N. Asim, R. Shahzadi, **Aamir Mehmood**, W. Mahmood, “MPF-Net: A computational multi-regional solar power forecasting framework”. [J] Renewable and Sustainable Energy Reviews, Vol. 151, 111559, Nov 2021. [IF: 15.9] <https://doi.org/10.1016/j.rser.2021.111559>
12. Z. Said, **Aamir Mehmood***, A. Waqas, A.A. Hachicha,, R. Loni, “Central versus off-grid photovoltaic system, the optimum option for the domestic sector based on techno-economic-environmental assessment for United Arab Emirates”. [J] Sustainable Energy Technologies and Assessments, Vol. 43, 100944, Feb 2021. [IF: 8.0] <https://doi.org/10.1016/j.seta.2020.100944>

13. I. Mahmood, A. Raza, **Aamir Mehmood***, N. Ahmad, K. Arif, "Evaluation of human brain hyperthermia using exergy balance equation". [J] Journal of Thermal Biology, Vol. 93, 102723, Oct 2020. [IF: 2.7] <https://doi.org/10.1016/j.jtherbio.2020.102723>
14. **Aamir Mehmood**, A. Waqas, Z. Said, S.M.A. Rehman, M. Akram, "Performance evaluation of solar water heating system with heat pipe evacuated tubes provided with natural gas backup". [J] Energy Reports, Vol. 5, 1432-1444, Nov 2019. [IF: 5.2] <https://doi.org/10.1016/j.egy.2019.10.002>
15. U. Farooq, H. Manzoor, **Aamir Mehmood**, A. Iqbal, R. Younis, A. Iqbal, F. Yang, M.A.S. Hassan, N. Faiz, "Assessment of technology transfer from grid power to photovoltaic: An experimental case study for Pakistan". [J] International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 10(5), 372-380, June 2019. [IF: 0.9] <DOI:10.14569/IJACSA.2019.0100546>
16. N. Husnain, E. Wang, L. Kai, M.T. Anwar, **Aamir Mehmood**, M. Gul, D. Li, J. Mao, "Iron oxide-based catalysts for low temperature selective catalytic reduction of NO_x with NH₃". [J] Reviews in Chemical Engineering, Vol. 35(2), 239-264, Feb 2019. [IF: 4.7] <https://doi.org/10.1515/revce-2017-0064>
17. Z. Said, A.A. Alshehhi,, **Aamir Mehmood**, "Predictions of UAE's renewable energy mix in 2030". [J] Renewable Energy, Vol. 118, 779-789, April 2018. [IF: 8.7] <https://doi.org/10.1016/j.renene.2017.11.075>
18. H.M. Abd-ur-Rehman, F.A. Al-Sulaiman, **Aamir Mehmood**, S. Shakir, M. Umer, "The potential of energy savings and the prospects of cleaner energy production by solar energy integration in the residential buildings of Saudi Arabia". [J] Journal of Cleaner Production, Vol. 183, 1122-1130, May 2018. [IF: 11.1] <https://doi.org/10.1016/j.jclepro.2018.02.187>
19. Z. Said, **Aamir Mehmood**, "Standalone photovoltaic system assessment for major cities of United Arab Emirates based on simulated results". [J] Journal of Cleaner Production, Vol. 142(4), 2722-2729, Jan 2017. [IF: 11.1] <https://doi.org/10.1016/j.jclepro.2016.11.004>
20. **Aamir Mehmood**, Z. Said, A. Waqas, W. Arshad, "Techno-economic performance assessment of central-grid wind turbines at major geographical locations of Pakistan". [J] Journal of Energy Systems, Vol. 1(1), 43-55, Sep 2017. <DOI: 10.30521/jes.347512>

21. **Aamir Mehmood**, A. Waqas, H.T. Mahmood, “Economic viability of solar photovoltaic water pump for sustainable agriculture growth in Pakistan”. [J] Materials Today: Proceedings, Vol. 2(10, Part B), 5190-5195, Dec 2015. [CiteScore: 3.2] <https://doi.org/10.1016/j.matpr.2015.11.019>
22. **Aamir Mehmood**, A. Waqas, H.T. Mahmood, “Stand-alone PV system assessment for major cities of Pakistan based on simulated results: A comparative study”. [J] NUST Journal of Engineering Sciences (NJES), Vol. 6(1), 33-37, Dec 2013. [SCOPUS Indexed]. journals.nust.edu.pk/index.php/njes/article/download/2/64

International Conferences (Peer Reviewed)

1. **Aamir Mehmood**, R. Lin, L. Zhang, C.K.M. Lee, J.Z. Ren, “Qualitative mapping of barriers to the renewables’ development against energy literacy dimensions: A case study of Pakistan”. The 8th International Conference on Energy and Environment Research (ICEER), 13-17 September 2021, 107-108, Italy (Virtual Conference). ISBN: 978-989-54758-9-6.
2. **Aamir Mehmood**, Z. Said, A. Waqas, P.W. TSE, W. Arshad, “Techno-economic performance assessment of central-grid wind turbines at major geographical locations of Pakistan”. IV. European Conference on Renewable Energy Systems (ECRES), 28-31 August 2016, 145-150, Istanbul, Turkey. http://www.ewres.info/Selected_paper_for_SS.pdf.
3. S.M. Hina, P. Akhtar, **Aamir Mehmood**, “Performance assessment of an on-Grid 178.05kW photovoltaic system Islamabad, Pakistan”. IEEE Xplore: International Conference on Emerging Technologies (ICET), 19-20 December 2015, 1-5, Pakistan. <http://ieeexplore.ieee.org/document/7389174/>
4. **Aamir Mehmood**, A. Waqas, W. Khalid, “Numerical modeling for optimal tilt angle determination of solar thermal collector in capital city of Pakistan”. 3rd International Conference on Energy, Environment and Sustainable Development (EESD’14), 22-24 October 2014, 89, Pakistan. http://eesd.muet.edu.pk/sites/default/files/EESD%2714%20Program%20Schedule_0.pdf

5. **Aamir Mehmood**, F.A. Sheikh, A. Waqas, “Modeling of solar photovoltaic system to fulfill the energy demand of the domestic sector of Pakistan using RETSCREEN software”. IEEE Xplore: International Conference and Utility Exhibition 2014: “Green Energy for Sustainable Development (ICUE 2014)”, 19-21 March, 2014, 1-7, Pattaya City, Thailand [ISBN: 978-1-4799-2628-2].
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6828909&tag=1
 6. **Aamir Mehmood**, A. Waqas, H. Ghaffar, “A comparative study on economic and sensitivity evaluation of different types of efficient solar collectors for domestic solar water heating in Pakistan”. IEEE International Conference on Modeling and Simulation (ICOMS), 25-27 Nov 2013, 269-274, Pakistan.
portals.au.edu.pk/icoms2013/Downloads/ConferenceProceedingsVoll.pdf
 7. **Aamir Mehmood**, A. Wasy, A. Waqas, J.I. Song, “Development and computational flow analysis of GSM based automated solar water pump”. The 9th International Conference on Fracture and Strength of Solids (FEOFS), Paper ID: PS-313; 9-13 June 2013, 281, Jeju, Republic of Korea. feofs2013.org/proceeding/file/poster/PS-313-Aamir%20Mehmood.pdf
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