

Retraction Notice of 7 articles in the special issue “Decarbonizing Energy Systems: Smart Grid and Renewable Technologies”

The Editors in Chief, Guest Editors and Publisher led an initial investigation into the Special Issue “Decarbonizing Energy Systems: Smart Grid and Renewable Technologies”, after concerns were raised about the authorship and the peer-review of some papers published in it. Through this investigation, a pattern of irregular and concerning author and reviewer activity was uncovered, including coordinated misconduct by a group of individuals involved in multiple publications.

The authors of the articles were given the opportunity to answer the results of this investigation and have not provided convincing evidence concerning the authorship and peer-review manipulation issues that were raised.

The Editors in Chief, Guest Editors and Publisher agree there are enough indicators to cause serious doubts over the legitimacy of the work and of the peer-reviewing of these articles. Hence, are retracted the articles listed hereafter:

Xuan Wang, Xiaofeng Zhang, Feng Zhou, Xiang Xu, A.B. Chammam and A.M. Ali, Modeling smart electrical microgrid with demand response and storage systems for optimal operation in critical conditions, *Science and Technology for Energy Transition* 79, 55 (2024). <https://doi.org/10.2516/stet/2024054>.

Shavan Askar, Albina Sadikova, Rajaa Jasim Mohammed, Hameed Hassan Khalaf, Nouby M. Ghazaly, R. P. Radhan and O. C. Candra, Optimal demand management of smart energy hybrid system based on multi-objective optimization problem, *Science and Technology for Energy Transition* 79, 53 (2024). <https://doi.org/10.2516/stet/2024052>.

Shaikh Hasibul Majid, Alhussein G. Alkhayer, Shavan Askar, Asha Rajiv, Sandeep Singh, Sarabpreet Kaur, Ashish Singh, Layth Hussein, Yersi S. Romaina and Raul Perz, Modelling cost-effective of electric vehicles and demand response in smart electrical microgrids, *Science and Technology for Energy Transition* 79, 63 (2024). <https://doi.org/10.2516/stet/2024065>.

Mohammad Ahmar Khan, A. K. Kareem, Shavan Askar, Dilsora Abduvalieva, Roopashree R., K. D. V Prasad, Aanchal Sharma, Abhishek Sharma, Nouby M. Ghazaly and M. Mohammadi, Modeling techno-economic multi-objectives of smart homes considering energy optimization and demand management, *Science and Technology for Energy Transition* 79, 61 (2024). <https://doi.org/10.2516/stet/2024057>.

Abdeljelil Chammam, Hamzah Ali Alkhazaleh, Farag M. A. Altalbawy, Amit Ved, Ashish Singh, Abhinav Kumar, I.B. Sapaev, Ali Ihsan Alanssari, Munther Kadhim Abosaoda and Y.S. Romaina, Energy management of the residential smart microgrid with optimal planning of the energy resources and demand side, *Science and Technology for Energy Transition* 79, 76 (2024). <https://doi.org/10.2516/stet/2024079>.

Arasu Raman, Biju Theruvil Sayed, Ahmad Alkhayyat, Amit Ved, M. Chetan, Ashish Singh, Raj Kumar, K. D. V Prasad, I. B. Sapaev and M Mohammadi, Optimal energy generation of hybrid energy systems considering economic and environmental multi-objective functions, *Science and Technology for Energy Transition* 80, 1 (2025). <https://doi.org/10.2516/stet/2024093>.

Shavan Askar, Harikumar Pallathadka, I.B. Sapaev, Lalji Baldaniya, Mamata Chahar, Suman Saini, Ish Kapila, Hassan Jewahery, Mohsen Aued Farhan and M. Mohammadi, Modelling smart energy consumption with hybrid demand management in off-grid electrical system considering techno-economic indices, *Science and Technology for Energy Transition* 79, 88 (2024). <https://doi.org/10.2516/stet/2024089>.