

7.1.3 Affordable and Clean Energy: publications

Total number of publications that were listed in Scopus for the goal is 164. Between 2023 and 2024 the total number was 48 publications making a total of 29.3% of total SDG7 publications in one year (Evidence 7.1.3 Scopus). The following are few examples:

1. An Integrated Goal Programming Model Applied for Planning a National Policy of Sustainable Development: A Case of Jordan

Alnsour, M.A.

Process Integration and Optimization for Sustainability, 2024

2. Optimizing Broadcast Utilization for Efficient Disaster Management Using Wireless Ad Hoc Networks and Novel Energy-Saving Algorithms

AlZyoud, F.Y., Tarawneh, M., Almaghthawi, A., ...Asiri, L., Alrehaili, M.
International Journal of Interactive Mobile Technologies, 2024

3. Evaluating windcatchers in UAE heritage architecture: A pathway to zero-energy cooling solutions

Chohan, A.H., Awad, J., Elkahlout, Y., Abuarkub, M.
Ain Shams Engineering Journal, 2024

4. OPTIMIZING ENERGY EFFICIENCY IN WIRELESS AD HOC NETWORKS FOR DISASTER MANAGEMENT: A NOVEL BROADCAST APPROACH FOR PROLONGED SENSOR LIFE

AlZyoud, F.Y., Tarawneh, M., Altarawni, I., ...AlAli, R.M., Aldahyani, T.H.H.
Journal of Theoretical and Applied Information Technology, 2024

5. The solid-phase ion-plasma method and thermoelectric properties of thin CrSi₂ films

Bekpulatov, I.R., Imanova, G.T., Jabarov, S.H., ...Tishkevich, D.I., Trukhanov, A.V.
Journal of Materials Science Materials in Electronics, 2024

6. Recent Progress in Design and Performance Analysis of Vertical-Axis Wind Turbines—A Comprehensive Review

Didane, D.H., Behery, M.R., Al-Ghriybah, M., Manshoor, B.B.
Processes, 2024

7. Adsorption of Pb, Cu, and Ni Ions on Activated Carbon Prepared from Oak Cupules: Kinetics and Thermodynamics Studies

Khater, D.F., Alkhabbas, M., Al-Ma'Abreh, A.M.
Molecules, 2024

8. Synthesis of Al quantum dots on porous silicon as an effective radiation detector using extended gate technique

Al-Diabat, A.M., Algadri, N.A., Al Zoubi, T., ...Abdelgalil, A.A., Ali, A.M.A.
Results in Engineering, 2024

9. Innovative Energy Retrofit Approach of Historical Buildings Using HBIM Process: The Guest House of Al-Karak Greater Municipality in Jordan a Case Study

Younis, A., Tawalbeh, M.

Civil Engineering and Architecture, 2024

10. Artificial intelligent control of energy management PV system

Al Smadi, T.A., Handam, A., Gaeid, K.S., ...Al-Husban, Y.Y., Khalid, A.S.

Results in Control and Optimization, 2024

11. Synergistic Effects of Energy Level Alignment and Trap Passivation via 3,4-

Dihydroxyphenethylamine Hydrochloride for Efficient and Air-Stable Perovskite Solar Cells

K.A. Mohammed, M., Abualsayed, M.I., Alshehri, A.M.A., ...Aftab, S., Akman, E.

ACS Applied Energy Materials, 2024

12. Enhancing the Aerodynamic Performance of the Savonius Wind Turbine by Utilizing Quarter

Elliptical Supplementary Blades

Al-Ghriybah, M., Adam Lagum, A.A.

Flow Turbulence and Combustion, 2024

13. Design a promising electro-catalyst for oxygen reduction reaction in fuel cells based on

transition metal doped in BN monolayer

Hsu, C.Y., Ulloa, N., Naranjo, E.M., ...Sh. Majidi, H.S., Adam Lagum, A.A.

International Journal of Hydrogen Energy, 2024

14. Biosorption of hexavalent chromium by biochar prepared from the Ceratonia siliqua pod:

Kinetic, equilibrium, and thermodynamics studies

Al-Dalahmeh, Y.A., Hamadneh, I.(D.R., Aburumman, G.A., ...Esaifan, M., Al-Dujaili, A.H.

Adsorption Science and Technology, 202

15. Attitudes and Perspectives for Installing EV Charging Station: A Case Study at Isra University,

Jordan

Khlaifat, N., Alnuman, N., Al-Omari, Z.A.M.

2024 22nd International Conference on Research and Education in Mechatronics Rem 2024, 2024

16. An OPPT for a PMSG with a new SEPIC-BUCK converter for a wind-driven PMSG system used

in rural areas

Emar, W.M., Attar, H.H., Saraereh, O.A., Qabaja, M., Fares, O.O.

International Journal of Applied Science and Engineering, 2024

17. A New Double-Switch SEPIC-Buck Topology for Renewable Energy Applications

Emar, W.M., Issa, H.M.A., Kanaker, H.M., Fares, O.O., Attar, H.H.

Energies, 2024

18. The effect of Cl encapsulation and hydrogenation process on the performance of ZnO

nanocluster as an anode in Na-ion batteries

Duhduh, A.A., Hsu, C.Y., Sami, M.H., ...Adam Lagum, A.A., Rajhi, A.A.

Journal of Physics and Chemistry of Solids, 2024

19. Investigating the effect of green composite back sheet materials on solar panel output voltage harvesting for better sustainable energy performance

AL-Oqla, F.M., Fares, O.O.
Energy Harvesting and Systems, 2024