

7.1.2 Affordable and Clean Energy: FWCI

During the academic year 2023- 2024, IU published a number of papers according to SDG7. The following are the citation per paper:

- [Investigating the effect of green composite back sheet materials on solar panel output voltage harvesting for better sustainable energy performance](#)

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

Citations: 3

- [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

Citations: 8

- [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

Citations: 10

- [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

Citations: 8

- [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

Citations: 3

- [Evaluating windcatchers in UAE heritage architecture: A pathway to zero-energy cooling solutions](#)

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

Citations: 11

- 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

Citations: 24

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

Citations: 14

- 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

Citations: 2

- 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

Citations: 34

- 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

Citations: 32

- 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

Citations: 9

- 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. Majdi, H.S., Adam Lagum, A.A.
International Journal of Hydrogen Energy, 2024

Citations: 11

- 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

Citations: 1

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

Citations: 5