

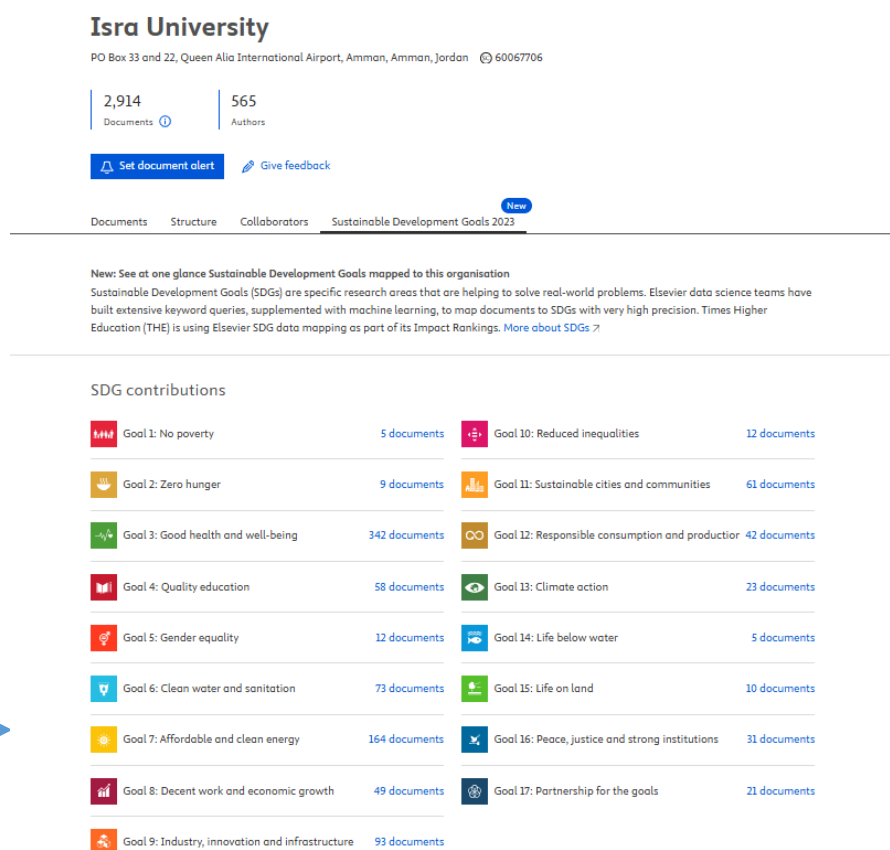


SDG7: AFFORDABLE AND CLEAN ENERGY

7.1 Research on clean energy

7.1.1 Affordable and Clean Energy

In total we had publications under the SDG7 of 164 publications as can be seen in Scopus report.



The total papers were revised according to Citescore metric and appear in the top 10% of journals with 9 publications within this category under SDG7 as follows:

1. [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

2. [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

3. [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

4. [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

5. [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

6. [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

7. [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, 2024

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

9. [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