

Dr. Yaal Lester

Environmental Technologies, Azrieli – College of Engineering Jerusalem



Yaal Lester graduated as environmental engineer at Israel's Institute of Technology (Technion, Haifa) in 2005, and received his MS.c. and Ph.D from the environmental engineering program at Tel Aviv University (2012). His post doctorate studies were carried out at the University of Colorado (Boulder), after which he returned to Israel and was reintegrated as the head of the Environmental Technologies Laboratory at Azrieli College of Engineering Jerusalem. Dr. Lester overarching research interests include advanced treatments of water and wastewater, focusing on the development and mechanistic study of oxidation/reduction processes for the treatment of emerging contaminants. Specific study projects include:

- Advanced oxidation and advanced reduction processes for treating emerging contaminants in water and wastewater.
- Photosensitization of ions (e.g. nitrate) and natural organic matter during UV treatment of water, and the production of oxidative species.
- Characterization and potential treatments of industrial wastewaters in general, and wastewater generated by natural gas exploration in particular.
- Development of sustainable, algae-based, wastewater treatment solutions.
- Development and implementation of decentralized sustainable wastewater treatment and reuse systems for small communities.

https://scholar.google.co.il/citations?user=wYAy_FoAAAAJ&hl=en

https://yedion.jce.ac.il/yedion/fireflyweb.aspx?prgname=Show_Teacher_Card&arguments=-N1439,-AE,-N200