



סמינר - SEMINAR

הנך מוזמן/ת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתתקיים ביום בי 9.12.2019 (יייא בכסלו תשייפ), בניין דן קאהן, אודיטוריום 1, 30 .14:

:מרצה

Assist. Prof. Matthew Suss

Faculty of Mechanical Engineering Grand Technion Energy Program Technion - Israel Institute of Technology

על הנושא:

Advances in electrochemical systems which combine energy storage and conversion with water desalination

The seminar will be given in English

להלן תקציר ההרצאה:

Electrochemical systems are explored towards applications in energy storage, energy conversion and water desalination, with rapidly expanding capabilities and material sets. Here I will discuss three measurements which highlight novel functionalities developed by my group at Technion, each one taken from one of our 2019 publications. These include: 1) demonstration of tuneable ion-size based selective water desalination with capacitive nanoporous carbon electrodes, 2) a grid-decoupled electrochemical system which produces both electricity and desalted water simultaneously, 3) a novel flowable electrode which leverages large-scale particle motion to enhance its electric conductivity.

בברכה,

מרכז הסמינרים מאנרים