PULSECHARGE

Bar-Ilan University
אוניברסיטת בר-אילן

Super-Fast Charging 2026

Science Meets Industry

International Scientific-Practical Conference on Super-Fast Battery Charging

10 December 2026 | Bar-Ilan University · Beck Auditorium | **8** invited talks | Free · in person or **online**

Fast and super-fast charging is one of the most active frontiers in the battery field - yet the discussion is fragmented across EVs, stationary storage and portable electronics, with academia and industry advancing in isolation. This one-day forum brings them under one roof at Bar-Ilan University, around two connected themes.

Session I · New Battery Materials
Electrodes, electrochemistry and degradation under high charging currents; materials that make super-fast charging possible.

Session II · Charging Methods
Pulsed and non-conventional protocols, thermal management and the physics of ultra-fast charge transfer - from lab to industry.

PROGRAMME

09:00	Registration & welcome coffee
09:30	**Opening remarks** Prof. Zeev Zalevsky, Vice President for Academia-Industry Relations, Bar-Ilan University · Igor Peer, Pulse Charge Tech · Prof. Arie Gruzman, Dept. of Chemistry, Bar-Ilan University
	Session I - New Battery Materials & Electrochemistry
09:45	**Prof. Doron Aurbach** - Bar-Ilan University, Israel / The National Institute for Energy Storage · battery electrochemistry
10:25	**Prof. Malachi Noked** - Bar-Ilan University, Israel / The National Institute for Energy Storage - *"Surface modification of materials for all-solid-state batteries"*
11:05	Coffee break
11:30	**Dr. Jan Procházka** - HE3DA, Czech Republic - *"Active Nanomaterials in High Rate Lithium Batteries"* (20 min)
11:50	**Dr. Svyatoslav Kondrat** - Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland · Institute for Computational Physics, Stuttgart, Germany - *"Ion transport and charging in nanoporous electrodes: disorder, dimensionality and metallicity"*
12:30	Lunch & networking
	Session II - Charging Methods & Industry · Chair: Prof. Eran Rabani, The Hebrew University of Jerusalem · UC Berkeley
13:40	**Dr. Daniel Sharon** - Institute of Chemistry, The Hebrew University of Jerusalem, Israel · title to be announced
14:20	**Igor Peer** - Pulse Charge Tech, Israel - *"Pulse-periodic ultra-fast charging"* (20 min)
14:40	**Gal Shachar-Michaely** - CTO, Salion Energy, Israel - *"Fast response in aqueous battery systems"* (20 min)
15:00	**Prof. Tomáš Kazda** - Brno University of Technology, Czech Republic · Chairman, Czech Battery Cluster - *"Structural changes of electrodes caused by cycling under high load"*
15:40	Coffee break
16:00	**Panel - Science and Industry:** the road to super-fast charging (45 min)
16:45	Closing remarks

SUPPORT

Bar-Ilan University - Department of Chemistry · Faculty of the Exact Sciences · Vice President for Academia-Industry Relations · Office of the VP International Affairs & the Third Mission · The National Institute for Energy Storage · The Energy & Sustainability Center | **Pulse Charge Tech**

ORGANISING COMMITTEE

Prof. Arie Gruzman - Bar-Ilan University
Igor Peer - Co-founder and CEO, Pulse Charge Tech
Dr. Laura Nissim - Bar-Ilan University

REGISTRATION

Registration is free. Register online at **pulsecharge.tech/sfc2026**

Department of Chemistry, Faculty of Exact Sciences, Bar-Ilan University · Faculty of Exact Sciences, Bar-Ilan University · The Energy & Sustainability Center, Bar-Ilan University · Office of the VP International Affairs & the Third Mission, Bar-Ilan University · SH ENERGY TECHNOLOGIES

Hosted and organised by the Department of Chemistry, Faculty of the Exact Sciences, Bar-Ilan University · Co-organised by Pulse Charge Tech · pulsecharge.tech
The programme may still be updated. Please follow updates at pulsecharge.tech/sfc2026