

Super-Fast Charging 2026

Science Meets Industry

International Scientific-Practical Conference on Super-Fast Battery Charging

10 December 2026

Bar-Ilan University · Beck Auditorium

11 invited talks

Registration free

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 (DRAFT)

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 · battery materials & energy storage

11:05 Coffee break

11:20 **Leading industry company** - to be announced (20 min)

11:40 **Leading industry company** - to be announced (20 min)

12:00 **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"*

12:40 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

15:55 **Leading industry company** - to be announced - *"Energy & storage systems"* (20 min)

16:15 **Leading industry company** - to be announced (20 min)

16:35 **Panel - Science and Industry: the road to super-fast charging** (30 min)

17:05 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