



**ELKIN**  
International Symposium on  
Electrokinetic Phenomena



## E.L.K.I.N. 2022 ISRAEL

**Abstract submission deadline has been extended to  
21st of April 2022!**

Dear colleagues,

The next ELKIN meeting (14th International Symposium on Electrokinetics) and research workshop of the Israel Science Foundation (ISF), will be held in person at Tel-Aviv University, Israel, on **July 4–6, 2022**.

You are welcome to submit your abstract for an oral or a poster presentation on the conference website, <http://elkin2022.eng.tau.ac.il/> until April 21, 2022. You will be asked to create an account to submit your abstract, which may be modified or withdrawn at any time before the online submission closes.

The ELKIN is a world-renowned forum featuring advances in theoretical and applied electrokinetics. The first ELKIN symposium took place in Granada, Spain, in 1993. After that, ELKIN conferences have been held in different countries inside and outside Europe, where the latest symposium (ELKIN 2019) was hosted by MIT in 2019. On behalf of the ELKIN Scientific Advisory Board the upcoming ELKIN will take place in Israel.

[Abstract submission](#)

### List of topics:

- ELKIN 2022 welcomes contributions in all areas of electrokinetics, including (but not limited to):
- Electrophoresis, diffusiophoresis, colloids and active particles
- Electrokinetics in micro/nano-fluidics
- Structure and dynamics of electrical double layers
- Electrokinetic instabilities and electrohydrodynamics
- Electrokinetics in biological systems
- Electrokinetics in biomedical and lab-on-a-chip devices
- Flow batteries and energy conversion
- Electrokinetics for the oil and gas industry
- Mathematical modeling and simulation
- Physics of membranes

### List of sessions:

- The presentations will be distributed over the following sessions:
- A special session celebrating the work of Prof. Stanislav Dukhin who recently turned 90.
- Electrokinetics in energy industry and desalination
- Electrokinetics in Biomedical Engineering
- Electrohydrodynamics
- Electrokinetics in Membranology
- Electrokinetics in Micro-Nano-Fluidics
- Fundamentals of Electrokinetics

### Invited speakers:

- David Andelman (TAU, Israel)
- Martin Bazant (MIT, USA)
- Moran Bercovici (Technion, Israel)
- Hsueh-Chia-Chang (ND, USA)
- Evgeny Demekhin (KSU, Russia)
- Andrei Dukhin (Dispersion Tech. Inc., USA)
- Sung Jae Kim (SNU, S. Korea)
- Natalyia Mishchuk (Inst. Coll. Water Chem., Ukraine)
- Victor Nikonenko (Kuban State Univ., Russia)
- Antonio Ramos (Univ. Seville, Spain)

### Invited speakers:

- Juan Santiago (Stanford, USA)
- Todd Squires (UCSB, USA)
- Matthew Suss (Technion, Israel)
- Paul Takhistov (Rutgers, USA)
- Orlin Velev (NCSSU, USA)
- Petia Vlahovska (Northwestern, USA)
- Mikhail Vorotyntsev (ICMUB, France)
- Carsten Werner (Dresden, Germany)
- Ehud Yariv (Technion, Israel)
- Andriy Yaroshchuk (Polytechnic University of Catalonia, Spain)
- Emiliy Zholkovskiy(j) (F.D. Ovcharenko Institute, Ukraine)

We look forward to welcoming you at Tel-Aviv this July!

Best regards,  
ELKIN 2022 Organizing committee:

- Gilad Yossifon, Tel-Aviv University
- Boris Zaltzman, Ben-Gurion University
- Isaak Rubinstein, Ben-Gurion University

[Elkin2022israel@gmail.com](mailto:Elkin2022israel@gmail.com)

[For removal](#) | [Spam report](#)