

Short Biography: Mordechai (Moti) Segev

Moti Segev is the Robert J. Shillman Distinguished Professor of Physics and of Electrical and Computer Engineering, and the Head of the Solid-State Institute, at the Technion, Israel. He received his BSc and PhD from the Technion in 1985 and 1990. After postdoc at Caltech, he joined Princeton as Assistant Professor (1994), becoming Associate Professor in 1997, and Professor in 1999. Subsequently, Moti went back to Israel, and in 2009 was appointed as Distinguished Professor – a rank that only four other Technion professors are holding.

Moti's interests are mainly in nonlinear optics, photonics, solitons, sub-wavelength imaging, lasers, quantum simulators and quantum electronics. He has founded several fields of research, among them the field of Topological Photonics, Anderson localization of light, Photorefractive Solitons, invented Topological Insulator Lasers, and more. More recently, he has pioneered the new research field of Photonic Time-Crystals.

He has won numerous international awards, among them the 2007 Quantum Electronics Prize of the European Physics Society, the 2009 Max Born Award of the Optical Society of America, and the 2014 Arthur Schawlow Prize of the American Physical Society, which are the highest professional awards of the three scientific societies. In 2011, he was elected to the Israel Academy of Sciences and Humanities. In 2015 he was elected to the National Academy of Science (NAS) of the USA, and in 2021 he was elected to the American Academy of Arts and Sciences (AAAS). On the national level, in 2008 he won the Landau Prize, in 2014 he won the Israel Prize (highest honor in Israel) in Physics and Chemistry, in 2019 he has won the EMET Prize and in 2024 he won the Rothschild Prize. In 2020 he was elected to be the Neil Armstrong Distinguished Professor at Purdue University, and in 2023 he won an Honorary PhD from the University of Quebec.

However, above all his personal achievements, he takes pride in the success of his graduate students and postdocs, among them are currently 27 professors in the USA, Germany, Taiwan, Croatia, Italy, India, China and Israel, and many holding senior R&D positions in the industry.

Publications: more than 400 papers in Refereed Journals. >250 Plenary, Keynote and Invited Talks at conferences. **Citations:** Google Scholar: H-index 126 with >71,000 citations.