



How to assess operational stability of perovskite solar cells with reversible degradation?*



Eugene A. Katz

Ben-Gurion University, Israel
Department for Solar Energy and Environmental Physics

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Eugene A. Katz received his MSc degree in Semiconductor Materials Science in 1982 and Ph. D. in solid state physics in 1990 from the Moscow Institute of Steel and Alloys. He has research experience in field of photovoltaic materials and devices for more than 30 years. The topic of his Ph. D. thesis was “Atomic structure and electronic properties of grain boundaries in polycrystalline silicon solar cells”. In 1995, he joined the Ben-Gurion University of the Negev and has been working in the Department for Solar Energy and Environmental Physics ever since (now as a full professor). His research interests include areas of applied solar energy, photovoltaics based on non-traditional semiconductors (fullerenes, nanotubes, conjugated polymers, perovskites), photovoltaic characterization of AllBV concentrator solar cells at ultra-high concentration of natural sunlight (up to 10,000 suns) and synthesis of nanomaterials by concentrated sunlight. He has published more than 100 peer-reviewed papers on these topics. and architecture.