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Ben-Gurion Solar Energy Center, Swiss Institute for Dryland Environmental and Energy Research, Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Sede Boqer campus, Midreshet Ben-Gurion, Israel

Education

- 1994** **B.Sc. (cum laude) Mater. Eng.**, Technion - Israel Inst. Technology
- 1994** **B.A. (cum laude) Physics**, Technion - Israel Inst. Technology
- 1998** **M.Sc. Mater. Eng.**, Technion - Israel Inst. Technology
- 2004** **Ph.D. Chemistry**, Weizmann Inst. Science
- 2004** **Postdoc Phys. Chem.**, Weizmann Inst. Science
- 2004-7** **Postdoc Biophysics**, Arizona State University

Selected professional appointments

- 2013 – current** Associate professor (2019), Senior lecturer, tenured (2016)
Swiss Institute for Dryland Environmental and Energy Research, Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev
- 2023** Head, Ben-Gurion solar energy center, BGU.
- 2022-current** Member of the Israeli Climate Forum – Energy and Industry cluster.
- 2021-current** BGU Energy and Sustainability Center – steering committee member.
- 2019-2022** Head, Department of Solar Energy and Environmental Physics.
- 2019** Co-chair, MRS Fall meeting, Boston MA.
- 2016** Co-chair of the 34th Israel Vacuum Society conference.
- 2014-2023** Editorial Board member of Scientific Reports, Nature publishing group.
- 2014–2019** Management Committee Member, Israel Vacuum Society.
- 2008-2013** Assistant professor
Department of Chemistry, Ben-Gurion University of the Negev

Grants (last 5 years)

- 2019-2022: ISF – Israel Science Foundation personal grant, PIs: Prof. I. Visoly-Fisher (leader), Prof. E. A. Katz (BGU), *Photovoltaic perovskite surface modification for improved solar cell stability*, 810,000 NIS.
- 2021-2024: SOLAR-ERA.NET Cofund 2 (EU)/ Israel Ministry of Energy, leader: M. Lira-Cantu from Catalan Institute of Nanoscience and Nanotechnology (ICN2) Spain, Consortium of 6 research groups from 5 countries, Israeli leader: Prof. I. Visoly-Fisher, *Towards Prediction of Operational Lifetime of Perovskite Photovoltaics: Acceleration Factors in Stability Study*

- through *Machine Learning (PrOPerPhotoMiLe)*, 630,375 NIS for BGU only (with Prof. E. A. Katz).
3. 2021-2022: HP INDIGO LTD, Industrial research contract, *Analysis and recommendation for optimal composition, morphology, characterization, and stability of Organic PV materials to obtain functional solar cells*, 300,000 NIS.
 4. 2022-2024: Ministry of Energy, Pls: Prof. I. Visoly-Fisher (leader), Prof. E. A. Katz, Prof. Genady Ziskind, Dr. Nina Kamenaya (BGU), *Synergy of aquatic photosynthetic bioreactors and stable perovskite solar cells for improved photoconversion efficiency*, 674,741 NIS.
 5. 2022-2023: BGU – Engineering – BIDR Multidisciplinary research, Pls: Prof. I. Visoly-Fisher, Dr. D. Grave, *Spatial collection efficiency characterization as a non-destructive method to study degradation and recovery of perovskite solar cells*, 70,000 NIS.
 6. 2022-2023: Ministry of Defense, Pls: Prof. Y. Gelbstein (leader), Prof. I. Visoly-Fisher, Prof. M. Peretz, Prof. A. Kuperman (BGU), *Miniaturized thermoelectric devices*, 220,000 NIS.
 7. 2022-2027: Ministry of Science, Technology and Space, Sweden-Israel cooperation on Water and Energy Generation, Storage, and Conversion Technologies: Prof. I. Visoly-Fisher (BGU, leader), Prof. D. Cahen, Prof. D. Oron (WIS), Prof. E Moons (KAU), *Self-healing Photovoltaic Perovskite Materials and Devices*, 1,124,000 NIS (Israeli side).
 8. 2023-2025: Ministry of Energy, Pls: Prof. I. Visoly-Fisher (leader), Dr. Eran Edri, Dr. Daniel Grave (BGU), Prof. D. Mandler (HUJI), Dr. G. Segev (TAU), Dr. H-N. Barad (BIU), Prof. C. Rothschild (Technion), *Solar Energy Harvesting for a Sustainable Future – Israel-Morocco collaboration*, 1,080,000 NIS (Israeli side).
 9. 2023-2027: EU-HORIZON-TMA-MSCA Doctoral Network project, 15 participating institutions, Leader: Prof. Gregor Trimmel (TU Graz), *Understanding, Predicting and Enhancing the Stability of Organic Photovoltaics*, €270,000 (BGU only).
 10. 2023-2027: EU-HORIZON-CL5-2022-D3-03 RIA project, 10 participating institutions, Leader: Dr. Pablo Boix (U. Valencia), *High-Efficiency Perovskites on Flexible Substrates for Sustainable Applications*, €395,500 (BGU only).
 11. 2023-2026: ISF – Israel Science Foundation personal grant, Pls: Prof. I. Visoly-Fisher (leader), Prof. E. A. Katz (BGU), *Electrical therapy of perovskite solar cells*, NIS900,000.

Conferences – invited lectures (last 3 years)

1. (2022) “*Pb in halide perovskites for photovoltaics: reasons for optimism*”, SPIE Optics and Photonics, Organic: Hybrid, and Perovskite Photovoltaics XXIII, San Diego, CA.
2. (2022) “*Concentrated Sunlight for Stability Testing of Organic and Perovskite Solar Cell Materials and Devices*”, The 86th Annual Meeting of the Israel Chemical Society, Tel Aviv.
3. (2022) “*Harvesting solar energy- Israeli science contributions*”, Panel on energy storage and conversion – Israel capabilities, United Nations Framework Convention on Climate Change COP27, Sharm El-Sheikh.
4. (2023) Keynote lecture - “*Surface Science for Sustainability: Pb Leaching from Halide Perovskites*”, IVS-IPSTA 2023 – 40th annual conference, Ramat Gan.
5. (2023) “*Pb in halide perovskites for photovoltaics: Environmental impact*”, ViPerCon – Virtual Perovskite Conference, online.
6. (2023) “*Solar Energy conversion – an interdisciplinary research*” - Industry-academia workshop on Challenges in the transition to renewable energies, Jerusalem.
7. (2023) “*Stability and sustainability challenges of next generation solar cells*” - German-American-Israeli Trilateral Symposium on Energy Solutions, Halle, Germany.
8. (2024) “*Natural Sunlight for Stability Testing of Perovskite Solar Cells*” – MRS Spring 2024 meeting, Seattle, WA.

Publications

Chapters in collective volumes and Conference proceedings

1. M. S. Silverstein^{PI}, I. Visoly^S, (1997) *Conduction in plasma polymerized thiophene films*, ANTEC'97 Conference proceedings, Vols. 1-3, 1411-1413.
2. K. D. Dobson^{PD}, I. Visoly-Fisher^S, (2001) R. Jayakrishnan^S, K. Gartsman^T, G. Hodes^C and D. Cahen^{PI}, *When, Why and Where are CdTe/CdS Solar Cells Stable?* MRS Proceedings, 668, H8.24.
3. I. Visoly-Fisher^S, S. R. Cohen^C, A. Ruzin^C and D. Cahen^{PI}, (2004) *Understanding polycrystallinity in CdTe/CdS solar cells: Scanning probe mapping of single grain boundary/surface*, Proceedings of the 12th Sede Boqer Symposium on Solar Electricity Production, D. Faiman, ed.
4. I. Visoly-Fisher^{PD}, K. Daie^S, Y. Terazono^T, C. Herrero^S, F. Fungo^S, L. Otero^C, E. Durantini^C, J. J. Silber^S, L. Sereno^C, D. Gust^C, T. A. Moore^{PI}, A. L. Moore^C, S. M. Lindsay^{PI} (2008), *Understanding photosynthesis: Electron transport in single biomolecular wires*, Proceedings of the 15th Sede Boqer Symposium on Solar Electricity Production, D. Faiman, ed., 85-88.
5. S. Sadewasser^{PI}, I. Visoly-Fisher^{PI} (2010), *Scanning probe microscopy on inorganic thin films for solar cells*, in "Advanced Characterization Techniques for Thin-Film Solar Cells", U. Rau, D. Abou-Ras, Th. Kirchartz, eds., Wiley (2nd ed. 2016).
6. M. Rumbak^S, I. Visoly-Fisher^{PI}, R. Shikler^{PI} (2013), *Light trapping in P3HT:PCBM solar cells: towards improved spectrum utilization*, Proceedings of the 18th Sede Boqer Symposium on Solar Electricity Production, D. Faiman, ed.
7. G. Sarusi^{PI}, T. Templeman^S, E. Hechster^S, N. Nissim^S, V. Vitenberg^T, N. Maman^{PD}, A. Tal^S, A. Solodar^S, G. Makov^C, I. Visoly-Fisher^C, I. Abdulhalim^C, Y. Golan^C (2016), *Architecture, development and implementation of a SWIR to visible integrated up-conversion imaging device*, Nanophotonics VI, edited by David L. Andrews, Jean-Michel Nunzi, Andreas Ostendorf, Proc. of SPIE Vol. 9884, 98840L.
8. A. Vilan^{PI}, I. Visoly-Fisher^{PI} (2016), *Molecular functionalization of surfaces for device applications*, Preface to a special volume, **J. Phys.:** **Cond. Matter**, **28**, 090301.
9. *M. V. Khenkin^{PD}, Anoop K.M. ^S, I. Visoly-Fisher^C, F. Di Giacomo^C, I. Dogan^C, B. R. Patil^S; V. Turkovic^C, M. Madsen^C, Y. Galagan^C, C. Ulbrich^{PI}, E. A. Katz^{PI} (2020), *Peculiarities of perovskite photovoltaics degradation and how to account for them in stability studies*, Proceedings of 47th IEEE Photovoltaic Specialists Conference (PVSC), Calgary, OR, pp. 0305-0308.

Refereed articles and refereed letters in scientific journals

10. M. S. Silverstein^{PI}, I. Visoly^S, O. Kesler^T, M. Janai^C, Y. Cassuto^C, *Plasma Polymer Films for 532 nm Laser Micromachining*, **J. Vac. Sci. Technol. B**, **16** (1998) 2957-67. (Times cited: 7. IF: 1.23, JR: 106/248, Q2).
<https://doi.org/10.1116/1.590326>
11. M. S. Silverstein^{PI}, I. Visoly-Fisher^S, *Plasma Polymerized Thiophene: Molecular Structure and Electrical Properties*, **Polymer**, **43** (2002) 11-20. (Times cited: 93. IF: 4.22, JR: 12/82, Q1).
[https://doi.org/10.1016/S0032-3861\(01\)00582-1](https://doi.org/10.1016/S0032-3861(01)00582-1)
12. K. D. Dobson^{PD}, I. Visoly-Fisher^S, G. Hodes^C, D. Cahen^{PI}, *Stability of CdTe/CdS Thin-Film Solar Cells* (review paper), **Sol. Energy Mater. Sol. Cells**, **62** (2000) 295-325. (Times cited: 295. IF: 5.47, JR: 10/83, Q1).
[https://doi.org/10.1016/S0927-0248\(00\)00014-3](https://doi.org/10.1016/S0927-0248(00)00014-3)
13. K. D. Dobson^{PD}, I. Visoly-Fisher^S, G. Hodes^C, D. Cahen^{PI}, *Stabilizing CdTe/CdS Solar Cells with Cu-Containing Contacts to p-CdTe*, **Adv. Mater.**, **13** (2001) 1495-9. ***Joint first authorship**. (Times cited: 47. IF: 15.58, JR: 7/148, Q1).
[https://doi.org/10.1002/1521-4095\(200110\)13:19%3C1495::AID-ADMA1495%3E3.0.CO;2-%23](https://doi.org/10.1002/1521-4095(200110)13:19%3C1495::AID-ADMA1495%3E3.0.CO;2-%23)

14. I. Visoly-Fisher^S, S. R. Cohen^C, D. Cahen^{PI}, *Direct Evidence for Grain-Boundary Depletion in Polycrystalline CdTe from Nanoscale-Resolved Measurements*, **Appl. Phys. Lett.**, **82** (2003) 556-8. (Times cited: 84. IF: 3.73, JR: 20/136, Q1). <https://doi.org/10.1063/1.1542926>
15. I. Visoly-Fisher^S, K. D. Dobson^{PD}, J. Nair^S, E. Bezalel^S, G. Hodes^C, D. Cahen^{PI}, *Factors Affecting the Stability of CdTe/CdS Solar Cells, Deduced from Stress Tests at Elevated Temperature*, **Adv. Funct. Mater.**, **13** (2003) 289-99. (Times cited: 66. IF: 11.21, JR: 12/148, Q1). <https://doi.org/10.1002/adfm.200304259>
16. I. Visoly-Fisher^S, S. R. Cohen^C, C. S. Ferekides^C, D. Cahen^{PI}, *Electronically Active Layers and Interfaces in Polycrystalline Devices: Cross-Section Mapping of CdS/CdTe Solar Cells*, **Appl. Phys. Lett.**, **83** (2003) 4924-6. (Times cited: 41. IF: 3.73, JR: 20/136, Q1). <https://doi.org/10.1063/1.1632532>
17. I. Visoly-Fisher^S, S. R. Cohen^C, A. Ruzin^C, D. Cahen^{PI}, *How polycrystalline devices can outperform single crystal ones: thin film CdTe/CdS solar cells*, **Adv. Mater.**, **16** (2004) 879-83. (Times cited: 162. IF: 15.58, JR: 7/148, Q1). <https://doi.org/10.1002/adma.200306624>
18. I. Visoly-Fisher^S, A. Sitt^S, M. Wahab^S, and D. Cahen^{PI}, *Molecular Adsorption-Mediated Control over the Electrical Characteristics of Polycrystalline CdTe/CdS Solar Cells*, **ChemPhysChem**, **6** (2005) 277-85. (Times cited: 18. IF: 3.23, JR: 7/33, Q1). <https://doi.org/10.1002/cphc.200400392>
19. I. Visoly-Fisher^S, S. R. Cohen^C, K. Gartsman^T, A. Ruzin^C, D. Cahen^{PI}, *Understanding the Beneficial Role of Grain Boundaries in Polycrystalline Solar Cells from Single Grain Boundary Scanning Probe Microscopy*, **Adv. Funct. Mater.**, **16** (2006) 649-660. (Times cited: 148. IF: 11.21, JR: 12/148, Q1). <https://doi.org/10.1002/adfm.200500396>
20. I. Visoly-Fisher^{PD}, K. Daie^S, Y. Terazono^T, C. Herrero^S, F. Fungo^S, L. Otero^C, E. Durantini^C, J. J. Silber^S, L. Sereno^C, D. Gust^C, T. A. Moore^{PI}, A. L. Moore^C, S. M. Lindsay^{PI}, *Conductance of a biomolecular wire*, **PNAS**, **103** (2006) 8686-90. (Times cited: 78. IF: 10.72, JR: 4/55, Q1). <https://doi.org/10.1073/pnas.0600593103>
21. D. Azulay^S, O. Millo^C, I. Balberg^{PI}, H-W. Schock^C, I. Visoly-Fisher^S, D. Cahen^{PI}, *Current routes in polycrystalline CuInSe₂ and Cu(In,Ga)Se₂ films*, **Sol. Ener. Mater. & Sol. Cells**, **91** (2007) 85–90. (Times cited: 99. IF: 5.47, JR: 10/83, Q1). <https://doi.org/10.1016/j.solmat.2006.08.006>
22. Y. Furmansky^S, H. Sasson^S, P. Liddel^T, D. Gust^C, N. Ashkenasy^C, I. Visoly-Fisher^{PI}, *Porphyrins as ITO photosensitizers: Substituents control photo-induced electron transfer direction*, **J. Mater. Chem.** **22** (2012), 20334 - 20341. (Times cited: 19. IF: 6.74, JR: 20/136, Q1). <https://doi.org/10.1039/C2JM34118B>
23. D. Gerster^S, J. Reichert^C, H. Bi^S, J. V. Barth^S, S. M. Kaniber^S, A. W. Holleitner^C, I. Visoly-Fisher^C, S. Sergani^S, I. Carmeli^{PI}, *Photocurrent of a single photosynthetic protein*, **Nature Nano.** **7** (2012), 673–676 (Times cited: 98. IF: 38.58, JR: 2/251, Q1). <https://doi.org/10.1038/nnano.2012.165>
24. M. Rumbak^S, I. Visoly-Fisher^{PI}, R. Shikler^{PI}, *Broadband absorption enhancement via light trapping in periodically patterned polymeric solar cells*, **J. Appl. Phys.** **114**, (2013) 013102 (Times cited: 9. IF: 2.25, JR: 39/136, Q2). <https://doi.org/10.1063/1.4812324>
25. S. Sergani^S, Y. Furmansky^S, I. Visoly-Fisher^{PI}, *Metal-free molecular junctions on ITO via amino-silane binding - toward optoelectronic molecular junctions*, **Nanotechnology** **24** (2013) 455204 (Times cited: 6. IF: 3.84, JR: 39/251, Q1). <https://iopscience.iop.org/article/10.1088/0957-4484/24/45/455204>
26. R. Gertman^S, A. Osherov^S, Y. Golan^C, I. Visoly-Fisher^{PI}, *Chemical bath deposition of PbS thin films on ZnO nanowires for IR photovoltaics*, **Thin Solid Films** **550** (2014), 149-155 (Times cited: 25. IF: 1.86, JR: 31/67, Q2). <https://doi.org/10.1016/j.tsf.2013.10.160>
27. R. Gertman^S, Y. Berger^S, I. Visoly-Fisher^{PI}, *Pulsed electrodeposition of CuSCN for superfilling of ZnO nanowire array electrodes*, **Electrochimica Acta** **125** (2014), 65-70 (Time cited: 7. IF: 4.08, JR: 4/27, Q1).

- <https://doi.org/10.1016/j.electacta.2014.01.090>
28. I. Visoly-Fisher^{PI}, A. Mescheloff^S, M. Gabay^S, C. Bounioux^{PD}, L. Zeiri^T, M. Sansotera^{PD}, A. E. Goryachev^{PD}, A. Braun^S, Y. Galagan^C, E.A. Katz^{PI}, *Concentrated sunlight for accelerated stability testing of organic photovoltaic materials: Towards decoupling light intensity and temperature*, **Sol. Ener. Mater. & Sol. Cells** **134** (2015), 99–107 (Times cited: 34. IF: 5.47, JR: 10/83, Q1). <https://doi.org/10.1016/j.solmat.2014.11.033>
 29. R. Gertman^S, A. Harush^S, I. Visoly-Fisher^{PI}, *Nanostructured Photocathodes for Infrared Photodetectors and Photovoltaics*, **J. Phys. Chem. C** **119** (2015), 1683–1689 (Times cited: 10. IF: 5.2, JR: 29/136, Q1). <https://doi.org/10.1021/jp510484n>
 30. R. K. Misra^{PD}, S. Aharon^S, B. Li^S, D. Mogilyanski^T, I. Visoly-Fisher^C, L. Etgar^C, E. A. Katz^{PI}, *Temperature- and component-dependent degradation of perovskite photovoltaic materials under concentrated sunlight*, **J. Phys. Chem. Lett.** **6** (2015), 326–330 (Times cited: 456. IF: 6.9, JR: 19/136, Q1). <https://doi.org/10.1021/jz502642b>
 31. A. Yochelis^{PI}, M. B. Singh^{PD}, I. Visoly-Fisher^{PI}, *Coupling bulk and near-electrode interfacial nano-structuring in ionic liquids*, invited perspective, **Chem. Mater.** **27** (2015), 4169–4179 (Times cited: 26. IF: 8.5, JR: 13/136, Q1). <https://doi.org/10.1021/acs.chemmater.5b00780>
 32. E. A. Katz^{PI}, A. Mescheloff^S, I. Visoly-Fisher^C, Y. Galagan^C, *Light Intensity Dependence of External Quantum Efficiency of Fresh and Degraded Organic Photovoltaics*, **Sol. Ener. Mater. & Sol. Cells** **144** (2016), 273–280 (Times cited: 30. IF: 5.47, JR: 10/83, Q1). <https://doi.org/10.1016/j.solmat.2015.09.020>
 33. R. K. Misra^{PD}, L. Ciammaruchi^{PD}, S. Aharon^S, D. Mogilyansky^T, L. Etgar^C, I. Visoly-Fisher^{PI}, E. K. Katz^{PI}, *Effect of halide composition on the photochemical stability of perovskite photovoltaic materials*, invited communication, **ChemSusChem** **9** (2016), 2572 – 2577 (Times cited: 57. IF: 7.11, JR: 20/163, Q1). <https://doi.org/10.1002/cssc.201600679>
 34. S. Nabha-Barnea^S, N. Maman^{PD}, I. Visoly-Fisher^{PI}, R. Shikler^{PI}, *Microscopic Investigation of Degradation Processes in a Polyfluorene Blend by Near-Field Scanning Optical Microscopy*, **Macromolecules** **49** (2016) 6439–6444 (Times cited: 7. IF: 5.55, JR: 7/85, Q1). <https://doi.org/10.1021/acs.macromol.6b01543>
 35. L. Ciammaruchi^{PD}, F. Brunetti^C, I. Visoly-Fisher^{PI}, *Solvent effects on the morphology and stability of PTB7:PCBM based solar cells*, **Solar Energy** **137** (2016), 490–499 (Times cited: 29. IF: 3.68, JR: 22/88, Q1). <https://doi.org/10.1016/j.solener.2016.08.018>
 36. D. A. Grave^{PD}, D. Klotz^{PD}, A. Kay^S, H. Dotan^C, B. Gupta^{PD}, I. Visoly-Fisher^C, A. Rothschild^{PI}, *Effect of Orientation on Bulk and Surface Properties of Sn Doped Hematite (α-Fe₂O₃) Heteroepitaxial Thin Film Photoanodes*. **J. Phys. Chem. C** **120** (2016), 28961–28970 (Times cited: 32, IF: 5.2, JR: 29/136, Q1). <https://doi.org/10.1021/acs.jpcc.6b10033>
 37. B. Gupta^{PD}, N. Kumar^{PI}, K. Panda^{PD}, V. Kanan^S, S. Joshi^C, I. Visoly Fisher^{PI}, *Role of oxygen functional groups in reduced graphene oxide for lubrication*, **Sci. Rep.** **7** (2017), 45030 (Times cited: 386, IF: 5.22, JR: 7/63, Q1). <https://www.nature.com/articles/srep45030>
 38. H. Scapin Anizelli^S, V. Stoichkov^S, R. V. Fernandes^S, J. L. Duarte^{PI}, E. Laureto^{PI}, J. Kettle^{PI}, I. Visoly-Fisher^C, E. A. Katz^C, *Application of luminescence downshifting materials for enhanced stability of CH₃NH₃PbI₃(1-x)Cl_{3x} perovskite photovoltaic devices*, **Organic Electronics** **49** (2017), 129–134 (times cited: 27, IF: 3.39, JR: 61/275, Q1). <https://doi.org/10.1016/j.orgel.2017.06.056>
 39. A. A. Melvin^{PD}, V. D. Stoichkov^S, J. Kettle^C, D. Mogilyansky^T, E. A. Katz^{PI}, I. Visoly-Fisher^{PI}, *Lead iodide as a buffer layer in UV- induced degradation of CH₃NH₃PbI₃ films*, **Solar Energy** **159** (2018), 794–799 (times cited: 28, IF: 4.01, JR: 21/92, Q1). <https://doi.org/10.1016/j.solener.2017.11.054>

40. J. Harrell^S, M. Acikgoz^C, H. Lieber Sasson^S, I. Visoly-Fisher^C, A. Genova^S, M. Pavanello^{PI}, *Models of Surface Morphology and Electronic Structure of Indium Oxide and Indium Tin Oxide for Several Surface Hydroxylation Levels*, **J. Phys. Chem. C** **122** (2018), 584–595 (times cited: 4, IF: 5.2, JR: 29/136, Q1). <https://doi.org/10.1021/acs.jpcc.7b10267>
41. X.-Q. Chen^S, X. Yao^S, W.-J. Xiao^S, J. Wang^S, S.-C. Wu^S, L.-N. Liu^S, G. Xie^S, J. Li^S, Z. Lu^C, I. Visoly-Fisher^C, E. A. Katz^C, W.-S. Li^{PI}, *Donor-acceptor photovoltaic polymers based on 1,4-dithienyl-2,5-dialkoxybenzene with intramolecular noncovalent interactions*, **Journal of Polymer Science, Part A: Polymer Chemistry** **56** (2018), 689-698 (times cited: 8, IF: 2.95, JR: 21/86, Q1). <https://doi.org/10.1002/pola.28959>
42. T. Templeman^S, S. Sengupta^{PD}, N. Maman^{PD}, E. Baror^S, M. Shandalov^C, V. Ezersky^T, E. Yahel^C, G. Sarusi^C, I. Visoly-Fisher^C, Y. Golan^{PI}, *Oriented Attachment: a Path to Columnar Morphology in Chemical Bath Deposited PbSe Thin Films*, **Crystal Growth & Design** **18** (2018), 1227- 1235 (times cited: 15, IF: 4.05, JR: 4/26, Q1). <https://doi.org/10.1021/acs.cgd.7b01771>
43. M. Khenkin^{PD}, K.M. Anoop^S, I. Visoly-Fisher^C, S. Kolusheva^T, Y. Galagan^C, F. Di Giacomo^C, O. Vukovic^S, B. Patil^S, G. Sherafatipour^S, V. Turkovic^C, H-G. Rubahn^C, M. Madsen^C, A. Mazanik^S, E. A. Katz^{PI}, *Dynamics of photo-induced degradation of perovskite photovoltaics: from reversible to irreversible processes*, **ACS Applied Energy Materials** **1** (2018), 799-806 (times cited: 82, IF: 4.47, JR: 39/112, Q2). <https://doi.org/10.1021/acsaem.7b00256>
44. M. V. Khenkin^{PD}, K.M. Anoop^S, I. Visoly-Fisher^{PI}, Y. Galagan^C, F. Di Giacomo^C, B. R. Patil^S, G. Sherafatipour^S, V. Turkovic^C, M. Madsen^C, H.-G. Rubahn^S, T. Merckx^S, G. Uytterhoeven^S, J. P. A. Bastos^S, T. Aernouts^C, F. Brunetti^C, M. Lira-Cantu^C, E. A. Katz^{PI}, *Reconsidering Figures of Merit for the Performance and Stability of Perovskite Photovoltaics*, **Energy and Environmental Science** **11** (2018), 739 - 743 (times cited: 72, IF: 29.5, JR: 3/166, Q1) - **Hot manuscript in 2018**. <https://doi.org/10.1039/C7EE02956J>
45. E. A. Katz^{PI}, I. Visoly-Fisher^{PI}, D. Feuermann^{PI}, R. Tenne^{PI}, J. M. Gordon^{PI}, *Concentrated sunlight for materials synthesis and diagnostics*, **Advanced Materials**, **41** (2018) 1800444 (time cited: 11, IF:19.79, JR: 6/166, Q1). <https://doi.org/10.1002/adma.201800444>
46. N. Maman^{PD}, T. Templeman^S, H. Manis-Levy^S, M. Shandalov^C, V. Ezersky^T, G. Sarusi^C, Y. Golan^C, I. Visoly-Fisher^{PI}, *Post-Growth Control of the Interfacial Oxide Thickness in Semiconductor-Insulator-Semiconductor Hetero-Junctions*, **Advanced Materials Interfaces** **5** (2018), 1800231, (times cited: 4, IF:4.28, JR: 34/166, Q1). <https://doi.org/10.1002/admi.201800231>
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